Annual Report
July 1, 2004 - June 30, 2005

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Dr. R. K. Reznick

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Dr. R. Richards - Vice Chair, Clinical
Dr. B. Alman - Vice-Chair, Research

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Dr. Z. Cohen - Mount Sinai Hospital
Dr. L. Smith - St. Joseph’s Health Centre
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Dr. R. Weisel - Cardiac Surgery
Dr. Z. Cohen - General Surgery - Bernard and Ryan Langer Chair
Dr. J. Rutka - Leslie Dan Professor and Chair of Neurosurgery
Dr. J. Waddell - A.J. Latner Professor and Chair of Orthopaedic Surgery
Dr. P. Neligan - Wharton Chair in Reconstructive Plastic Surgery
Dr. S. Keshavjee - Thoracic Surgery
Dr. S. Herschorn - Urology
Dr. T. Lindsay - Vascular Surgery

Co-ordinator and Editor
Pamela Roberts - Academic HR/Payroll Administrator
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Richard K. Reznick – R.S. McLaughlin Professor and Chair

It will soon be three years that I have had the privilege of serving as Chair of this Department. It has been an eventful three years to say the least, but I truly feel more energized than ever before and have strong feeling of indebtedness for having been given the opportunity to serve this department. My preference for making the complex decisions that need to be made in the Department, is one of consensus building and I continue to benefit from the wise council of many in our department’s leadership, especially our senior executive. I am particularly grateful to them for their advice and support.

Last year we unrolled our strategic plan. One of the fundamental pillars of that plan was a commitment to adapt to a changing surgical workplace. Consistent with that philosophy we have implemented two new programs to the Department and are progressing on plans for a third. The first is focused on the issue of access to care. We hope to be more supportive of our departmental members who have young children. The Department has contracted with Kid and Company, a multi-campus day care operation, to co-fund any member of our faculty who would like to use their day care facilities. The second and allied issue, is that through an arrangement we have signed with Sun Life, we will now be providing health care benefits to our new recruits who are not otherwise eligible for University or Hospital benefits. Third, we are working with the Vice President of Human Resources, at University of Toronto and the President of University of Toronto Asset Management Corporation, to start work on a pension plan arrangement for our incoming faculty.

This past year has also seen the introduction of a new clinical faculty policy. The need for this policy stems from fundamental differences between clinical faculty and other members of the university academic community. First, virtually every faculty member in our Department wears two hats, a hospital one and a university one. Second, we derive the lion’s share of our income from employment as a self-professional. Third, our job descriptions vary greatly within and between groups, especially in regard to the time we have apportioned to academic activity.

Notwithstanding, these fundamental differences between clinical faculty and other members of the university, we have until now, been governed by the same policy and procedures as any university faculty, and more appropriately put, their has been a policy vacuum with respect to clinical faculty. The advent of this new policy has meant that we have had to work hard towards ensuring that all 31 of our divisions have a viable well-functioning practice plan; and that these plans are congruent with a set of principles put forth by both our Department’s finance committee and the Dean’s office. We have had three practice plan summits and innumerable meetings, which have resulted in three practice, plan templates having been put forward. I am encouraged by the response. Most of our thirty-one groups have affirmed a template and are making plans to operationalize one of the plans.

We have a faculty rich in talent and diversity. A testament to that is that in this last year, seven faculty were promoted to associate professor: including, Fred Brenneman, Peter Dirks, Paul Marks, Andy Smith, David Stephen, David Urbach and Herb von Schroeder. Five faculty; John Bohnen, Mark Cattral, Mike Cusimano, Karen Davis and Fred Gentilli were all promoted to Full Professor. The standards for promotions in our Department and at our university are as rigorous as any institution I know. All of our surgeons who were promoted last year should be justifiably proud.

Probably the most important thing we do in Academic Surgery is to fortify our ranks with talented new recruits. This past year we have appointed five outstanding women and seven men to our Department.

This past year, we lost three dear and respected colleagues. A mention of their passing in an annual report does not do justice to the magnitude of their contributions. Suffice it to say, we will all miss and remember with respect and fondness, and indeed always be in awe of the extraordinary accomplishments of Harold Hoffman, Bill Laugheed and Bill Bigelow. This Department has indeed truly lost three giants of Surgery in this past year.

In my opinion, the most important event of the last year, and the one that may have the most far-reaching consequences for our Department was a legal decision. While the 40-year-old debate about the strengths and weaknesses of our Canadian healthcare system rages on, the Supreme Court’s decision of June 9, 2005 in the case of Chaoulli vs. Quebec (Attorney General) is a significant turning point that challenges the Canada Health Act and may well have implications for how we practice medicine in the future. Notwithstanding, that the Supreme Court has stayed this decision for a one-year period, it is the turbulence provoked by the June 9th decision that characterizes the current state of affairs. This was made crystal clear when on August 18th, nearly two thirds of Canadian Medical Association delegates voted in favor of an amendment that says that “…patients who can’t get timely access to care should be allowed to rely on private health insurance and private-sector health services.”
A series of commentaries in the August issue of the Canadian Medical Association Journal crystallizes the debate. For example, Albert Schumacher, the Past President of the Canadian medical Association, has said that universal access to quality medical care is empty if timely access is denied. The CMA believes that the Chaoulli decision delivered the same message: “it is a stinging indictment of governments’ failure to solve access problems.”

Office of the Chair in the Historical Banting Institute

The views of the CMA, and many of our colleagues throughout the country are in stark contrast to individuals like Stephen Lewis. Lewis claims, “…that the real action needed for our healthcare system includes primary health care reform, a more rational division of labor, quality improvement and a remedy for inequities in pay scales that overvalue day surgery assembly lines and undervalue geriatricians and rheumatologists.” He adds “… according to organized medicine, system failings are always someone else’s fault. Somehow Mr. Zeliotis’s hip surgery delay was caused by the nature and stinginess of the single-payer system. Nothing, apparently, is attributable to physicians retaining control over their individual weight lists and refusing to standardize criteria for assessing and prioritizing patients.”

This view is fortified by comments such as this one from Lawrie McFarlane, “Forty years of labour have been cast aside in a spasm of judicial intemperance, and a radical, if not catastrophic remedy has been imposed to solve a narrow and possibly transitory problem.”

We need to learn from other jurisdictions. Richard Smith, former editor of the BMJ claims that the private system in England has turned from “pariah to saviour”, that most private providers in the ramped up privatization environment in the UK is being provided by non-English companies and that hospitals that can attract patients and treat them for less, will flourish Britain’s NHS.

I am confident that if we polled our entire Department, we would not have consensus of view. Nor should we. This is a complex debate and we need to genuinely respect an individual practitioner’s right to their fundamental view. However, I am more confident than ever that what is absolutely needed in our Department is to be prepared. The winds of change are upon us, and unless we have a cogent and agreed-to plan at hand, we will be forced to react slowly and possibly worse, function in a damage control way.
Even a limited study of the events of the past decade in the United States informs us, that those departments of surgery that were quick to react to changes and understood the market forces in their jurisdiction, have flourished. Those that reacted slowly, or did not react at all have failed. Unquestionably our system is different. However, if these winds of change bring upon us any significant aliquot of privatized medicine, there is the potential for massive chaos in our academic healthcare community. We are currently not poised to cope or compete in a privatized system. Our university and hospital structures are complex, and they can in no way be defined as nimble. There is absolutely no question, that if in any way we start to suffer in terms of inadequate patient volumes, our academic missions of teaching and research will be hit hard. This has certainly been the case in a multitude of what were bastions of American academe, as they fought what was often a losing battle, against health maintenance organizations, preferred provider systems, big business, powerful insurance companies and large hospital system conglomerates.

I believe we need a plan. In the immediate future, I will be organizing for this Department, a series of debates and strategy sessions. My goals in the exercise are twofold. The first is to develop a consensus statement on the issue of privatization within our Department. The second and most important, is to develop strategies for response to a variety of scenarios. While each of us may be politically inclined to have a certain view on this issue, I am confident that it will be wise to prepare for many possible outcomes. It will do us no good to cling to old ways and maintain a moral high ground if privatized medicine crashes in upon us. Similarly, if our current health system is maintained, we will do best to be proactive in affecting meaningful change to improve efficiencies and capacity.

Our research mission continues to flourish. This year we saw unprecedented growth in our research funding. In 2004-2005 we captured $47,386,000! This incredible amount typifies the continuing escalation in the number and magnitude of our major research accomplishments. Under Ben Alman’s leadership, there has been a re-visioning exercise as we continue to make great gains in the quality and quality of the enterprise. Ben and his research committee, plan to improve the depth of research by building new collaborations with fundamental researchers, by starting a program of seminars on research topics of interest to the Department of Surgery and by the development of Surgeon-Scientist University rounds.

Importantly, a decision has been made to adopt an expanded view of scholarship. The research committee plans to establish a Scholarship in Surgery program, that will run parallel to our Surgeon-Scientist program and focus on training in areas that are oriented to non-research intensive graduate degrees.

There continues to be many, many research successes. Since 2000, a total of eleven researchers have received PREA awards; we have three Canada Research Chairs, and we have seen million dollar grants jump from three in 2002, to eight in 2004.

Our Surgeon-Scientist Training Program continues to flourish. We currently have 32 residents in the program, consisting of 14 new entrants and 18 residents continuing their graduate studies. Astoundingly, 92% of our trainees have attracted external salary support.

We continue to wok hard on our fund-raising efforts. Last year, thanks to the efforts led by Zane Cohen, we completed and instantiated the Langer Chair in General Surgery. This year, thanks to efforts by Sender Herschorn in Urology, the Barkin has reached its initial goal for the establishment of this Chair. Our current efforts now are focused on a new Chair in Plastic Surgery, the acquisition of a surgical robot, augmenting our currently high level of award capture and establishing a planned giving program.

Under John Bohnen’s leadership, we have continued to flourish in the education arena. When we seriously reflect on all of our accomplishments, undoubtedly for many of us, the accomplishment of teaching tomorrow’s surgeons, will stand out as the most meaningful. This has been an eventful year in education. David Backstein has launched a new curriculum for clerkship. Our medical school is on the verge of expanding with negotiations underway to have a new campus in Mississauga. Our decanal team is changing. David Naylor, our current Dean has been named President of the University and Catherine Whiteside is now Interim Dean. Jay Rosenfeld, a developmental paediatrician, is our new undergraduate Dean; Sarita Verma, a family doctor and lawyer from Queen’s is our new postgraduate Dean, and Ivan Silver, a geriatric psychiatrist is our new Dean of Continuing Medical Education. This year, we created a new task force of Fellowship affairs. This is being lead by David Latter, and will take a serious look at educational and financial issues for our more than 200 fellows in this Department.
Last year I reported to you that we were seeking funding to support the expansion of our Surgical Skills Lab. We have now raised 2.4 million dollars and construction is underway. Our Skills Centre continues to be an international model, now serving as a benchmark standard for the accrediting process of skills labs by the American College. Under Helen MacRae’s leadership we have exceeded expectations in our missions of resident education, skills related educational research and continuing education events for surgical practitioners.

In summary this has been an exciting year for our Department. It has been gratifying to see our strategic plan in action, as we attempt to break the boundaries. I am very grateful to our wonderful faculty. During my initial three years as chair I have received nothing but encouragement and nothing but support for new initiatives. I have certainly worked harder than ever before, but each moment has been filled with important challenges and most importantly, a deep respect I have learned for the caliber of individuals in this Department.
During the 2004-2005 academic year, the Department of Surgery Undergraduate Education program continued to evolve and improve. Following the successful Faculty of Medicine accreditation process in May 2004, for which Surgery made a very positive contribution, we have worked to further enhance our undergraduate commitments.

The amount of Undergraduate teaching in the Surgical Skills Centre continued to increase this year. As of September 2005, the Phase I curriculum has been significantly modified further to include a full week of centralized, integrated seminar and surgical skills sessions. Included in this new course will be a half-day of Trauma teaching organized by Dr. Jameel Ali. This new format will provide a launching pad for students to develop surgical skills and knowledge while providing the Department with improved capacity to manage content and evaluation.

On March 10, 2005, the first “Introduction to Surgical Clerkship Night” was held with a very large contingent of second-year medical students in attendance. This night provided students with an advanced look at the surgical clerkship and we plan to continue holding this on a yearly basis. Another highly successful iteration of “Residents as Teacher Day” was led by Dr. John Murnaghan at Sunnybrook estates on July 15, 2005.

A number of personnel changes occurred in 2004-2005. Dr. Stan Hamstra left the Department after eight years in the position of Director of Education Research and Evaluation. Ms. Pat Flaman retired after more than a decade of running the Surgical Education Office at the Wightman-Berris Academy. Dr. Robert Mustard has stepped down as Clerkship Coordinator at the Fitzgerald Academy. We thank all of these individuals for their years of hard work and devotion to undergraduate education.

Over the past academic year, several appointments within the realm of undergraduate education occurred. Dr. Ron Kodama took on the newly formed role of Pre-clerkship Co-ordinator and will oversee Surgery’s involvement in all educational matters, in undergraduate years one and two. Dr. Robert Stewart replaced Dr. Mustard as Clinical Clerkship Co-ordinator for the Fitzgerald Academy and will assume a position on the Undergraduate Education Committee. Dr. Ted Gerstle was named Clerkship Co-ordinator for the Hospital for Sick Children. Dr. Robin Richards took on the role of Clerkship Co-ordinator for the Peters-Boyd Academy after Dr. Peter Chu stepped down. Dr. Fred Gentili was appointed Clerkship Co-ordinator for the Wightman-Berris Academy. Dr. Eric Massicotte took over as the Neurosurgery Co-ordinator of the Phase II Central Lectures from Dr. Michael Cusimano. We also welcomed Ms. Elizabeth Doherty to replace Pat Flaman at the Surgical Education Office of the Wightman-Berris Academy.

This year’s W.T. Aikins Award in the category of Course/Program Development and Coordination was won by Dr. Jameel Ali (Division of General Surgery), and Dr. David Backstein (Division of Orthopaedic Surgery) was awarded the E. Bruce Tovee Award for undergraduate teaching. Dr. Peter Stotland, General Surgery resident, won the D.R. Wilson Award, for undergraduate teaching by residents.

As Director of the Surgical Clerkship I would like to recognize the outstanding contributions made by all faculty that teach Surgery to medical students, at the University of Toronto. Your continued efforts in the O.R., on the ward and in the Surgical Skills Centre, are greatly appreciated by the students and make a critical contribution to their development as future physicians.
The Department of Surgery residents, fellows and faculty members contributed to another year of accomplishments, challenges and milestones in 2004-2005.

Surgery entry level programs filled all of our first year positions in July 2004 through the Canadian resident match. In 2004-2005, 246 trainees participated in our 11 programs (Cardiac Surgery, General Surgery, Neurosurgery, Orthopedic Surgery, Plastic Surgery, Thoracic Surgery, Urology and Vascular Surgery residencies; and Colorectal Surgery, Paediatric General Surgery and Surgical Oncology residency/fellowship programs). In addition to those residency positions, 170 clinical fellows and 19 elective residents came from many countries to seek further clinical training. Thirty-one residents received research training within the Surgeon Scientist Program, led by Dr. Ben Alman, our new Vice-Chair, Research.

Residents finishing Core Surgery (years one and two) and senior residents were highly successful in Royal College of Physicians and Surgeons (RCPSC) in-training and fellowship exams. Thirty-three of 35 residents passed their Royal College fellowship examinations.

Surgery residents participated in numerous educational events that complement their involvement in patient care. Besides the large number of specialty sessions provided by each division, the department sponsors educational series for Core Surgery residents. Dr. Bob Mustard continues to run the highly-rated Principles of Surgery (POS) Lecture series and provides a practice POS exam from questions he has created around the lectures and from the surgical literature. Twice yearly, Core Surgery residents participate in the Residents Forum, in which they give feedback about issues such as work conditions. In July, Core Surgery residents attended the annual half-day program “The Surgeon in Society.” This year’s theme was “change” and its relation to surgical practice. First year residents attended in July, an orientation day that provided them a chance to meet education providers in a relaxed setting with tasty food. Several resident volunteers, enticed by more food and a chance to promote their specialties, participated last fall in a career night for senior year medical students interested in Surgery. In the summer, residents in their third-year of clinical training attended a “residents as teachers” workshop led by Drs. John Murnaghan and Stan Hamstra; this highly rated event supports residents’ triple mission, of providing patient care, achieving their own education and helping to train medical students and junior residents. Last but not least, Dr. Jameel Ali led the department’s provision of Advanced Trauma Life Support training, for Core Surgery residents.

Dr. Helen MacRae continued to direct the Surgical Skills Centre (SSC) including training Core Surgery residents in basic operating room skills and theory, in a controlled setting, under the supervision of master teachers of surgical technique. Besides Core Surgery training, the SSC provides advanced skills training, for surgical divisions and the Departments of Otolaryngology and Obstetrics/Gynecology.

Each divisional Program Director and their trusty assistants have worked hard to foster residents’ well-being, organize social events and prepare their trainees for exams and clinical practice. Thanks to: Gail Darling (Thoracic Surgery); Doug Hedden (Orthopaedic Surgery); Ron Kodama (Urology); Jack Langer (Paediatric General Surgery); David Latter (Cardiovascular Surgery); Ron Levine (Plastic Surgery); Tom Lindsay (Vascular Surgery); Lorne Rotstein (General Surgery); Carol Swallow (General Surgical Oncology); and Chris Wallace (Neurosurgery) and their able assistants: Liz Doherty, Karen Hodgson, Antonella Iannaccio, Eddy De Oliveira, Willa Hart, Gayle Burke, Leah Gabriel, Jan McEvoy, Jane Hanes and Sandi Amaral, respectively.

Each year, hospitals, surgical divisions and the Department of Surgery award faculty members and residents awards for excellence in postgraduate teaching. Among the key departmental awards, Dr. David Latter won the Tovee Postgraduate Award for sustained, outstanding contributions to postgraduate training and Dr. Peter Stotland won the D. R. Wilson Education Prize for outstanding teaching of medical students by a surgical resident. Dr. Michael Ko received first prize in the Gallie competition and Dr. Michael Lekas received second prize. Congratulations to all, for these significant accomplishments.

This year saw growth, changes, challenges and opportunities for our residency programs. The online evaluation system for residents, faculty and clinical rotations, “POWER” had its ups and downs, but by year’s end was working much better than last year, with fewer glitches. We witnessed a gratifying increase in resident feedback on teachers and rotations through the web based system. On the negative side, our Director of Education Research and Evaluation, Dr. Stan Hamstra, has left for an exciting research opportunity in Ann Arbor, Michigan. We will miss Stan, and wish him good times and a great future in education research!

The clinical fellowship program in the department, has grown to almost equal numbers with the residency program, yet there are few guidelines, educational or otherwise, for surgeons at this advanced level of training. To address this need, a Clinical Fellow Task Force, chaired by Dr. David Latter, is working to recommend processes and infrastructure that will support our mission to train fellows superbly, without affecting adversely our residency programs. We expect that a formal clinical fellowship program will be set out in 2005-2006.

As we approach RCPSC accreditation in 2007, the coming academic year will be a time of internal reviews of each of our 11 accredited residency programs. We look forward to this exercise in self-evaluation, both to improve our educational offerings and to prepare us for external review.

Residents, fellows and faculty surgeons have received willing and warm-hearted help from the administrative support team of Tess Weber, Miriam Rotman, Jean DeFazio and Gem Ofreneo. We look forward to another great year in 2005-2006.
This was a dynamic year for Research in the Department of Surgery. Dr. Ori Rotstein stepped down as Vice-Chair, Research following an exceptional term during which there was phenomenal growth in the department’s research enterprise. I took over this position at the end of 2004, and am following in his footsteps to continue to build our research capacity. One of the unique strengths of the University of Toronto is the potential to generate high-quality, in-depth, fundamental research, and develop this knowledge into improved clinical care. In the upcoming years, the Department will be working to build the infrastructure to increase the depth and breadth of our academic activities, with the ultimate aim of translating fundamental research into improved outcomes for our patients.

The Department had a fantastic year for research, with our total research funding exceeding $40,000,000, as faculty and residents grant accrual continued to rise. Our faculty continues to be recognized for research not only locally and nationally but internationally as well. This was confirmed by our peer-reviewed publications, in which we published in the highest quality peer-reviewed journals including Nature and the New England Journal of Medicine.

Surgeon-Scientist Program (SSP) residents had an unparalleled year. Over 90% of our SSPs were successful in receiving full or partial salary support from external granting agencies. Fourteen new residents entered the SSP, giving the Program 14 MScs, 3 MEds, 13 PhDs and one PDF resident involved in full-time research. The Johnson & Johnson Medical Products Surgeon-Scientist Fellowship Program’s fifth year of commitment, allowed us to support four SSPs. These were Daniel Martin (supervisors: Drs. Michael Sefton & John Semple), Carol-Anne Moulton (supervisor: Dr. Richard Reznick), Cian O’Kelly (supervisor: Dr. Christopher Wallace) and Patrick Tawadros (supervisor: Dr. Ori D. Rotstein).

The 31st Gallie Day underwent a transformation by having the poster presentation session on the same day and place as the oral presentations. This combined session drew the largest attendance and resulted in a more diverse crowd, representing the various disciplines and training backgrounds that are represented by our departmental members. Nine of our Surgeon-Scientist Program residents presented their work in the oral portion of the program and over 50 research trainees from a variety of backgrounds and surgical divisions, working under the supervision of a member of the Department, presented a scientific poster. Dr. David N. Herndon, the Jesse H. Jones Distinguished Chair in Burn Surgery, University of Texas, Galveston, was the Gordon Murray lecturer and Gallie Day judge.

Dr. Michael A. Ko (General Surgery resident supervised by Dr. Carol Swallow), received the first prize in the Gallie Competition for his work entitled “Sak/Plk4 is Haploinsufficient for Hepatocellular Carcinogenesis and Regulates p53”. Dr. Michael C. Lekas (Cardiac Surgery resident supervised by Dr. Duncan Stewart) received second place for his work “The Critical Role of the Angiopoietins in Neovascularization of the Ischemia Hindlimb: Therapeutic Angiopoietin-2 Gene Transfer Enhances Revascularization”. Michael C. Lekas also received first place in the McMurrich Award, for the best poster presentation in a fundamental biology area for his poster entitled “Therapeutic revascularization induced by angiopoietin-2 gene transfer is synergistically enhanced by combination with VEGF gene in the rat hindlimb ischemia model”.

The two second place recipients of the McMurrich award were Ananta Gurung, for his poster entitled “Elevated beta-catenin and Tcf-dependent transcription and the formation of hyperplastic cutaneous wounds in mice administered lithium chloride,” and Sean Tjandra for his poster entitled “Type 1 interferon signaling promotes tumor formation in aggressive fibromatosis.” Both second place winners were supervised by Dr. Ben Alman. There was also a tie for third place, with Poney Chiang receiving third prize for his poster entitled “Mutational analysis of AAA+ motifs in pseudomonas aeruginosa Type IV pilus motor proteins” supervised by Drs. Lori Burrows and Christopher Kim, receiving third prize for his poster “Maximizing ventricular function with multimodal cell-based gene therapy” supervised by Dr. Terrence Yau. The Wyeth Award for best poster presenting an educational or clinical epidemiology project went to Jason Park for his poster “Skill transfer from colonoscopy simulator to real patients: Results of a randomized controlled study” supervised by Drs. Stanley Hamstra, Helen MacRae, and Richard Reznick.

Again this year, faculty accomplishments were astonishing. Too many awards and honors were received 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: The Armstrong-Peters Prize for young investigators was awarded to Dr. Peter Dirks, for his work in tumour stem cells. Dr. Stephen Fremes was honoured with the Lister Prize for a senior investigator, for his outstanding work on clinical trials in cardiovascular surgery. This year’s Bernard Langer Surgeon Scientist Award recipient, given to the most outstanding
graduate of the Surgeon-Scientist Program, was Dr. Ian McGilvray. Dr. Steven Gallinger was recognized for his contributions to the Department by being awarded the Charles H. Tator Surgeon-Scientist Mentoring Award. This award recognizes Steve’s excellence in research and commitment to the SSP mentoring and dedication to the promotion of Surgeon-Scientists.

Dr. Lori Burrows received the 2004 Elsie Winifred Crann Memorial Trust Award in Medical Research. Dr. Geoff Fernie received over 7.5 million dollars from The Canada Foundation for Innovation for his research into the prevention of falls and fractures. Over 12 new grants were awarded by the Canadian Institutes of Health Research. The Premier’s Research Excellence Award (PREA), was awarded to Dr. Cindi Morshead. Our new faculty members were recognized through their receipt of local competitive University grants including the Connaught New Staff Matching Award (Dr. Robert Gryfe) and the 2004 Dean’s Fund Competition for New Staff Drs. (Anne Agur, Adam Dubrowski, Alexandra Easson, Mojgan Hodaie, Michael Taylor and Alexander Veloumian). Dr. Peter Kim received over $1,800,000 from the Ministry of Health and Long-term Care for his project on community-based materno-fetal health care network.

The Departmental Research Committee welcomed new members this year. We focused on expanding the breadth of research activities in the Department, establishing links to emerging research areas (such as nano-technology, which will be the focus of next year’s Gallie Day); improving the links with the non-clinician scientists in the Department, developing standardized evaluations for faculty, and reorganizing Gallie Day and research educational activities. The non-clinician scientists continue to be highlighted in the monthly Department of Surgery Newsletter.

Finally, I want to give szpecial thanks to Val Cabral for her coordination of all aspects of the Departmental research activities. She accomplished this during the move of the Research Office from the Toronto General Hospital to the Hospital for Sick Children, and now preparing for her move, once again, to what will hopefully be a permanent location on the thirteenth floor of the Toronto Medical Discovery Tower in MaRS in August of 2005.

In summary, there have been many changes in the Research Office over the past year, but we made fantastic research accomplishments as a department. In the upcoming years, we plan to open new avenues of investigation and improve our research infrastructure to increase the breadth and depth of our work, ultimately improving the outcome for our patients.
The Division of Cardiac Surgery achieved recognition for academic achievement as well as outstanding cardiac surgical results, at the annual meeting of the American Association for Thoracic Surgery this year. Dr. Tirone David delivered the Presidential Address entitled “For Everything There is a Season.” Dr. Richard Weisel delivered the Honoured Speakers Address entitled “Cardiac Regeneration.” Dr. William Williams received the Mentorship Award and Dr. Paul Fedak received the C. Walton Lillehei Resident Award.

**Clinical**

The waiting list continues to decrease and the risk profile of patients referred for Cardiac Surgery continues to increase. Despite this trend, the adult and pediatric units continue to provide outstanding results with morbidity and mortality statistics which are lower than any other University Affiliated Institution in North America. These excellent clinical results have received acclaim from the Government of Ontario and our peers in the United States.

**Cardiac Surgical Residency**

The Residency Program under the direction of Dr. David Latter continues to provide individualized training of the highest caliber for the residents.

Dr. Subodh Verma received the Young Investigator Award from the American College of Cardiology and the Melvin Marcus Young Investigator Award from the American Heart Association. Drs. Shafie Fazel and Nimesh Desai were finalists for the Lillehei Resident Prize won by Dr. Paul Fedak.

The residents participated in the four Coach House Seminars and the visits of two Professors, Dr. A. Marc Gillinov of the Cleveland Clinic and Professor Philippe Menasche from Paris.

**Academic Achievements**

Each of the institutions has made outstanding contributions and achieved academic excellence in the last year. The Division continues to support exceptional basic research, clinical epidemiology and unique clinical programs.

**Sunnybrook and Women’s Health Sciences Centre**

The Cardiovascular Surgical Division focused on clinical trials. Drs. Stephen Fremes and George Christakis received particular prominence because of their accomplishments in this area. The radial artery trial received funding to continue follow-up of patients operated on, at centres across the country. Dr. Nimesh Desai completed his PhD investigating new technologies for cardiac surgery. Dr. Gideon Cohen, working with Dr. George Christakis, received funding from the Heart and Stroke Foundation to assess the late outcomes of patients randomized to receive a stented or unstented aortic prosthesis. Dr. Bernard Goldman continues as the Editor of the Journal of Cardiac Surgery and published a comprehensive history of cardiac surgery in Canada.

**St. Michael’s Hospital**

Dr. Lee Errett and his colleagues provided outstanding clinical outcomes in complex cardiac surgical procedures. The group continued recruiting patients for their randomized trial of off pump compared to on pump coronary bypass surgery. Under the leadership of Dr. Yves LeClerc, St. Michael’s Hospital has been the leading centre for off pump surgery in Canada. Dr. Mary Keith received grant funding to evaluate nutritional preconditioning to improve outcomes. All Canadian cardiac surgical residents attended the Terrence Donnelly Residents Research Day this spring, sponsored by St. Michael’s Hospital.
**Toronto General Hospital**

Dr. Tirone David continued his innovations in valvular heart surgery. Dr. Michael Borger continued his evaluation of a new surgical technique for ischemic mitral regurgitation. He received funding to continue his clinical investigations into techniques to prevent brain injury during cardiac surgery. Dr. Viv Rao continued as the principle investigator of the NIH-funded STICH trial evaluating ventricular remodeling surgery. Drs. Rao and Heather Ross continued to provide a unique service to the community with the left ventricular assist program. Dr. Rao also received funding for laboratory and clinical investigations into organ protection to prevent transplant arteriopathy. Dr. Terry Yau received funding to continue his investigations into gene and cell therapy to induce angiogenesis. Dr. Ren-Ke Li received numerous awards as a pioneer in the new field of cell transplantation.

**Hospital for Sick Children**

Dr. Glen Van Arsdell and his colleagues continue to be world leaders in the surgery for congenital heart disease in neonates. Their outcomes reflect the dedication of the surgeons to the care of these critically ill newborn babies. Drs. John Coles and Chris Caldarone have established laboratory and clinically relevant investigations. Dr. William Williams continues to direct the Congenital Cardiac Surgery Database and to supervise Fellows using the database for academic endeavors.

**Summary**

The Division of Cardiac Surgery continues to be one of the leading academic and innovative centres in the world. The focus of the Division is to provide outstanding outcomes and to excel at academic productivity.
Resident Training

As mentioned in my report last year, the main issue that occupied our attention during this year was the external review of our residency program by Dr. Stephen Evans. Many changes were made in our residency program with input from our Interhospital Co-Ordinating Committee in General Surgery, our Postgraduate Committee on Surgical Education as well as recommendations that came out of a series of weekly meetings with our residents. The issues that were foremost in our minds related to resident service versus education ratios, on-call responsibilities by senior residents, calls from the wards to our junior residents and from our Emergency Departments, particularly to our junior residents, and the social interchange between our residents and our staff members, as well as the methods of evaluation of our resident population. I am pleased to say that I believe that our efforts have begun to show results in that the resident population is much more stable. I say this despite the fact that resident attrition continued during the 2004-2005 year, when three of our PGY-1 residents left the program. In total, from July 2001 to June 2005, a total of 15 residents left our program. On the upside is the fact that 7 residents transferred into our program. I am also pleased to say that 13 new PGY-1 residents will enter our program beginning July 1, 2005. Included in this total are 2 IMG residents. In addition, we have taken an additional APIMG resident into our second year. This resident is from Azerbaijan and a second resident into our second PGY-2 year as a transfer from the Neurosurgery Program.

The following General Surgical residents were successful in completing the General Surgery Training Program for 2004-2005. They are: Mary-Anne Aarts, Marco Bertucci,

Sean Cleary, Jamie Cyriac, Andrew Dueck, Rebecca Gladdy, Lawrence Green, Neelesh Jain, Peter Mikhail, Giuseppi Papia, Jason Pennington, Mo Quadri, David Weizman, Dennis Wigle.

This represents a 100% success rate for the Royal College of Surgeons of Canada examinations in General Surgery, for our General Surgical Program.

Promotions and New Faculty

During this academic year the following were promoted:

To Associate Professor - Drs. Fred Brenneman, Andy Smith, David Urbach
To Full Professor - Drs. John Bohnen and Mark Cattral

We congratulate those who were promoted for their superior efforts that have now been recognized in this very concrete way.

Our new faculty included Dr. Claude Burul at the Toronto Western Hospital, Dr. May Lynn Quan at Sunnybrook and Women’s College Health Science Centre, Dr. Carmine Simone at Toronto East General Hospital and Dr. Alice Wei at Toronto General Hospital.

Research Funding

Our research funding has continued to increase year after year. In the academic year of 1999-2000 our research funding was close to 4 million dollars. In the 2003-2004 academic year the research funding totaled close to 6 million dollars and in this particular academic year our research funding totaled 8.35 million dollars. This latter figure was approximately 25% of the total research funding secured by the Department of Surgery at the University of Toronto.

Faculty and Residents Grants

The following individuals received peer-reviewed grants during this academic year. They are Drs. John Bohnen, Mark Cattral, Alexandra Easson, Annie Fecteau, Steve Gallinger, David Grant, Robert Gryfe, Peter Kim, Jarley Koo, Calvin Law, John Marshall, Andrea McCart, Helen MacRae, Ian McGilvray, Robin McLeod, Michael Reedjik, Richard Reznick, Ori Rotstein, Carol Swallow, David Urbach, Paul Wales and Frances Wright.

These individuals represent 50% of our general surgical faculty at our fully affiliated teaching hospitals. It is outstanding and impressive that this percentage of individuals in any one general surgical division, are holding peer-reviewed grants. In addition to this, the following residents in our surgical scientist program received peer-reviewed grants. These included, George Zogopoulos and Lynn Mikula supervised by Dr. Steve Gallinger, Anand Ghanekar supervised by Dr. David Grant and Rachel Khadaroo and Patrick Tawadros supervised by Dr. Ori Rotstein.
The above faculty and residents received peer-reviewed grants from the following institutions: OMHLTC, CIHR, PSI, OCRN, McLaughlin Centre for Molecular Medicine, NCI.NIH, RCPSC, CSCI, PAIRO, Connaught Fund, March of Dimes Birth Defect Foundation, NSABP.NCI, NCIC, Cancer Care Society, James Ewing Foundation, National Colorectal Campaign, Ontario Innovation Trust, Canada Foundation for Innovation, NCIC, CCS, SAGES, CIHI, CCO, CAGS, C.D.N. Breast Cancer Foundation, Deans Excellence Fund, SIS, Genome Canada.

Events

The Faculty of Medicine Educational Achievement Event which was held in May of 2005 saw awards given to Dr. Jameel Ali to the following individuals. Dr. Ali was awarded the W.T. Aitkens Faculty Teaching Award for Course Development and Co-Ordination, Dr. Helen MacRae was awarded the Postgraduate Medical Education Award for Postgraduate Excellence and Development and Innovation and Dr. Richard Reznick the Daniel C. Tosteson Award for Leadership in Medical Education (from Harvard University).

The Gallie-Bateman Awards in May 2005 saw our General Surgical Faculty and Residents do well. Dr. Ian McGilvray was awarded the Bernard Langer Surgeon-Scientist Award, Dr. Steven Gallinger the Charles Tator Award, Dr. Peter Stotland the D.R. Wilson Award for Excellence in Resident Education and Dr. Michael Ko was awarded the First Prize in the Gallie Bateman Competition. Michael was supervised by Dr. Carol Swallow.

Our 45th Annual Update Course for General Surgeons and Residents was held on April 19-21st, 2005. Again, there was a record turnout of over 450 registrants. The guest lecturer was Dr. Mehran Anvari from McMaster University and once again, over 85% of our general surgical faculty presented at that major CME event. This past academic year, our update course was simulcast to the Tec de Monterrey in Monterrey, Mexico via an internet platform. Another 100 registrants were exposed to our Update Course and this again was highly evaluated. The Update in General Surgical Oncology was held in the Fall of 2004 over 100 registrants attended this meeting which again was highly evaluated.

The major academic event of the year for the general surgeons is our Annual Assembly of General Surgeons and Residents. This took place early in June of 2005. The E. Bruce Tovee Lecturer on that day was Dr. Barbara Bass from the University of Maryland. Awards for Best Papers and Posters were distributed to Drs. Michael Ko, Marianna Kapala and Lynn Mikula.

The General Surgical Division at the University of Toronto is outstanding in breadth and depth. We will continue to work in a collaborative way, striving for academic excellence in research and teaching and continuing to improve our residency training program.
Resident Achievements

Royal College Examinations:
Fellows of the Royal College of Physicians and Surgeons of Canada (FRCSC): Drs. Eve Tsai, Andrew Nataraj, Babak Jahromi, Eddie Meirelles, Jay Riva-Cambrin, and Mohammed Bin-Mahfoodh.

Resident Research Awards (International/National):
Several residents received externally funded fellowships and awards during the year:

Eve Tsai: won the Synthes Award, from the American Association of Neurological Surgeons (AANS);
Cian O’Kelly: received a 3-year Research Fellowship Award from the Heart and Stroke Foundation of Canada; and a Johnson and Johnson Medical Products-Surgeon-Scientist Fellowship 2004-2005

Jay Riva-Cambrin: received the AANS Pediatric Section Hydrocephalus Association Award
Sarah Woodrow: received the Cone Pevehouse Award from the AANS; and two grants for Medical Education Research from the Royal College of Physicians and Surgeons of Canada (2004-2005)
Sheila Singh: received this year’s Royal College of Physicians and Surgeons of Canada Resident Research Award
Todd Mainprize: is supported by a fellowship from the Neurosurgery Research and Education Foundation of the AANS
Karim Mukhida: received the Margot Anderson Award, the Congress of Neurological Surgeons
Charles Matouk: was awarded a CIHR Postdoctoral Fellowship (5 years); and received a Heart and Stroke Foundation of Canada Fellowship (3 years)

Resident Research Awards (University of Toronto):

Gelareh Zadeh: 2005 Alan Hudson Resident Teaching Award; William J. Horsey 2nd Prize Recipient
Sheila Singh: 2005 Warren Ho Humanitarian Scholarship Award; Morley Prize, 1st place award; successfully defended her PhD under mentorship of Dr. Peter Dirks; Stuart Alan Hoffman Prize, LMP; 17th Annual Andrew Sass-Kortsak Award, The Hospital for Sick Children

Eve Tsai: Dr. Leo Mahoney Resident Teaching Award, Department of Surgery, University of Toronto
Jay Riva-Cambrin: William J. Horsey 1st Prize Recipient
Bradley Jacobs: Morley prize, 2nd place award
Ann Parr: Successfully passed her transfer exam from Masters to PhD

Faculty Achievements

Awards
Dr. Fred Gentili: was appointed to the Editorial Board of the journal - Skull Base: An Interdisciplinary Approach; appointed to the Evaluating Committee of the Royal College of Physicians and Surgeons of Canada
Dr. Michael Fehlings: Received an Award of Merit in Clinical Research from the Heart and Stroke Foundation of Ontario; was appointed to the Board of Director of ONE Spine; was appointed to the Scientific Advisory Board, International Collaboration on Repair Discoveries (ICORD) for the Genomic Analysis of Injury and Neuroprotection (GAIN) project 2005-2009; was appointed to the Research Project Management Committee, North American Spine Society 2005; was appointed to the Medal Award in Surgery Subcommittee, Royal College of Physicians and Surgeons of Canada, 2005-2007; Chaired the first DePuy Spine Neurosurgery Residents Spine Education Summit; received a 5-year CIHR New Emerging Team Grant; received a 3-year AO Spine Center of Excellence Award from the AO International Foundation (with Eric Massicotte); was inducted into the American Academy of Neurological Surgery; received a grant from the McLaughlin Centre for Molecular Medicine; and was awarded a grant from the Christopher Reeve Paralysis Foundation (with Charles Tator)
Dr. Moji Hodaie: Won a Faculty Research Grant in the category of Dean’s Fund competition for new staff
Dr. Howard Ginsberg: Appointed as Assistant Professor of Engineering in the Institute of Biomaterials and Biomedical Engineering, University of Toronto.
Dr. Ab Guha: Member of the CIHR Grant Review Panel; Appointed to the Scientific Advisory Board: Sontag Foundation, USA; Scientific Program Committee Member, Society of Neuro-oncology
Dr. Jim Rutka: received a 3-year NCIC grant (with Dr. Michael Taylor); received another 3-year NCIC grant; was appointed Annual Meeting Chairman, AANS for April 2006; received a 1 year grant from Brainchild; received a 5-year grant from the CIHR; was appointed Treasurer of the Academy of Neurological Surgery; won the Farber Award from the Tumor Section of the AANS/CNS.
**Dr. Charles Tator:** was introduced in the Legislative Assembly of Ontario to show his support of Bill 129 which would require all Ontario cyclists to wear helmets on public roads; awarded a grant from the Christopher Reeve Paralysis Foundation (with Dr. Michael Fehlings)

**Dr. Eric Massicotte:** Received a 3-year AO Spine Center of Excellence Award from the AO International Foundation (with Michael Fehlings)

**Dr. Michael Cusimano:** received a Grant from the Ontario Neurotrauma Foundation, 2005-2007

**Dr. Alexander Velouman:** awarded the Dean’s New Fund Staff Grant

**Dr. Peter Dirks:** won the George Armstrong-Peters Award in the Department of Surgery; received the 2005 Royal College Medal Award in Surgery; was invited to join the CIHR Centers of Excellence group on stem cells

**Dr. Andres Lozano:** Named Chair, Stereotactic & Functional Neurosurgery Committee, WFNS, 2005-2009; awarded a Canada Research Chair in Neurosciences (Tier1), University of Toronto, 2005; elected President of the World Society for Stereotactic and Functional Neurosurgery, 2005-2009; appointed to the Editorial Board of Neuroumodulation, 2005; appointed as Ex-officio Board Liaison to Joint Section on Stereotactic and Functional Surgery, AANS, 2005-2007; appointed to the Scientific Issues Committee, Movement Disorder Society, 2005-2007; appointed to the International Executive Scientific Advisory Board, Michael J. Fox Foundation for Parkinson’s Research, 2005-2006; appointed as Chair, Archives Committee, Movement Disorder Society 2005-2007; appointed as Chair, Congress Scientific Program Committee, Movement Disorder Society 2005-2006; inducted into the American Academy of Neurological Surgery; elected President of the American Society for Stereotactic and Functional Neurosurgery, 2004; appointed as Chairman of the Joint Section on Stereotactic and Functional Neurosurgery, CNS/AANS

**Dr. Michael Taylor:** received a Connaught New Staff Matching Grant; awarded the 2005 Schweizguth prize by the International Society for Pediatric Oncology; received a 3-year NCIC grant (with Dr. Jim Rutka); received a 2-year fellowship from the American Brain Tumor Association; received a Dean’s Fund New Staff Grant; received the best individual investigator award for his presentation at the Tumor Satellite Symposium of the AANS/CNS; received best pediatric paper award at the Society for Neuro-oncology meeting; appointed to the Editorial Board of the Journal of Neuro-oncology

**University of Toronto - Neurosurgery Lectureships**

**Botterell** - Dr. Albert Rhoton, University of Florida College of Medicine

**Keith** - Dr. Richard Fessler, University of Chicago

**Hendrick** - Dr. Alain Pierre-Kahn, Hopital des Enfants Malades, Paris, France

**Lougheed** - Dr. John Girvin, King Faisal Specialist Hospital and Research Center, Jeddah, Saudi Arabia; and Dr. Frederick Boop, St. Jude’s, The University of Tennessee, Memphis, Tennessee

**Marshall** - Dr. Robert Dempsey, University of Wisconsin in Madison

**City-Wide Rounds:**

Sunnybrook and Women’s College Health Sciences Centre, Dr. Loch Macdonald, University of Chicago

St. Michael’s Hospital, Dr. Hunt Batjer, Northwestern University Medical School

**Courses Offered at the Surgical Skills Centre**

Hands-on Course in Epilepsy Surgery, February 12th, 2005. Course instructors were Drs. Taufik Valiante and Jim Rutka

**Promotions**

Full Professor - Drs. Michael Cusimano, Karen Davis and Fred Gentili

Associate Professor - Dr. Peter Dirks

**Departures**

**Dr. Raj Midha:** Chairman of the Division of Neurosurgery at the University of Calgary

**Dr. Rick Moulton:** Chairman of the Division of Neurosurgery at the University of Ottawa and the Ottawa Civic Hospital

**In Memoriam**

Drs. William Lougheed and Harold Hoffman

Publications by neurosurgery faculty and residents: 149

Visiting Professorships by University of Toronto: 80
The Division of Orthopaedic Surgery, University of Toronto has had a year of continued growth. Substantial changes have occurred in a number of areas particularly relating to resident training and research activity.

Our division participated fully in the Ontario International Medical Graduate Program this past year and in addition participated in the Ministry of Health and Long Term Care (MOHLTC) Program for physician re-entry into specialty training. In addition we have also taken on the responsibility of the Practice Ready Program for orthopaedic surgery. All of this has been accomplished through the hard work of Douglas Hedden our Program Director who has greatly expanded the horizon for orthopaedic training at this University.

Research activities continue at all fully affiliated hospitals. With the compulsory research year having been reinstated two years prior the first group of residents to do the additional year of research will be going into the lab next year. An ample number of positions are available for these trainees and arrangements for institutional support for research as well as salary support for the trainees has been completed. We are anticipating that the increased research productivity that will come from this initiative will enhance the attractiveness of our program for future resident applicants.

Individual faculty efforts have resulted in increased peer reviewed publications compared to the previous year; our peer reviewed grant capture also improved compared to the previous year.

There were a number of visitors to the Division this year. The highlight was the 2004 Kennedy Visiting Professor, Dr. Bruce Sangeorzan, Professor of Orthopaedic Surgery, University of Washington, Seattle, Washington. Dr. Sangeozan’s clinical interest is in traumatology and foot and ankle surgery and he provided excellent teaching for the residents and the faculty over the three days of the Kennedy Visiting Professorship. The Basic Science Visiting Professor was Dr. Chris Evans from Harvard University. His primary interest is in gene therapy and he and the other faculty speakers provided a fascinating review of the current role of gene therapy in orthopaedic surgery and its possible future applications.

Dr. Guo-Jaw Wang, President, Kaohsiung Medical University in Taiwan visited the Division of Orthopaedic Surgery and presented his work on prevention and treatment of steroid induced osteonecrosis. Dr. Chad Price was the Salter Visiting Professor in October of 2004 and Dr. Kaye Wilkins was the Inaugural Rang Lecturer in June of 2005. This lectureship has been established through the Hospital for Sick Children in memory of our colleague Dr. Mercer Rang.

The Anica Bitenc Traveling Fellows visiting immediately after the Canadian Orthopaedic Association meeting and spent a week at the various affiliated hospitals.

The Canadian Orthopaedic Resident’s Association meeting was held in Toronto November 5-6, 2004. This gave residents from across Canada an opportunity to interact with residents from the Toronto Program and as well allowed residents from other programs to interact with faculty members from this University. The faculty and residents at the University of Toronto would like to thank Markku Nousiainen and Christian Veillette for all their work in organizing this meeting.

Individual members of the faculty singled out for excellence by their peers included Jim Wright appointed Surgeon-in-Chief at the Hospital for Sick Children and awarded a Quality of Life Research Award by the Canadian Institutes of Health Research. Ben Alman was renewed as the Canadian Research Chair in Musculoskeletal Research; he was appointed Head of the Division of Orthopaedic Surgery at the Hospital for Sick Children and Vice-Chair of Research for the Department of Surgery. Doug Hedden was appointed the Head of the Specialty Committee for Orthopaedic Surgery for the Royal College of Physicians and Surgeons of Canada. Unni Narayanan was awarded the Marc Asher Award from POSNA (Paediatric Orthopaedic Society of North America) for the best scientific poster at their annual meeting.

Rod Davey was appointed Associate Director for Surgical Services, University Health Network and Medical Director of the Operating Rooms at the Toronto Western Hospital. Dr. Nizar Mahomed was given the Wightman-Berris Academy Teaching Award for 2005.

Dr. Stephen Lewis was chosen by the residents as the outstanding resident teacher for 2004-2005, receiving the Robert B. Salter Award for this accomplishment. Stephen was also recognized for his contribution to surgical skills by being designated for the University of Toronto Surgical Skills Distinguished Education Award for 2004-2005.
David Backstein won the Bruce Tovee Award for undergraduate education for 2004-2005.

Dr. Johnny Lau has been named a North American Traveling Fellow from the Canadian Orthopaedic Association for the year 2005.

The R.I. Harris Postgraduate Award was presented to Dr. Markku Nousiainen for the best graduating resident as voted by the faculty. Markku was also awarded the Sopman Humanitarian Award from the University Health Network in June 2005.

The two best resident presentations at Kennedy Day as judged by our Visiting Professor were given by Dr. Dr. Kurt Droll and Dr. Christian Veillette. Each received the Organon Sanofi-Synthelabo Research Award. The best presentation at the Basic Science Research Day was given by Dr. Daniel Yoo - he received the T.R. Sullivan Award for excellence in basic science research.

Four members of our faculty were promoted as of July 1, 2004: Dr. Ben Alman from the Hospital for Sick Children was promoted to full Professor; Dr. Tim Daniels from St. Michael’s, Dr. Joel Finkelstein from Sunnybrook and Dr. Andrew Howard from the Hospital for Sick Children were all promoted to the Associate Professor level.

Bob Bell has been appointed the CEO of the University Health Network. This will obviously severely limit Bob’s continued involvement with the Division of Orthopaedic Surgery and his research in orthopaedic oncology, but also recognizes his tremendous leadership skills. I am sure all of us in the Division are pleased for Bob and anticipate that he will have great success in his new position.

The Second Year Medical Student Initiative was held again this year. Once again it was over-subscribed and all students have expressed enthusiasm for the opportunity to learn more about orthopaedic surgery and more about this University.

We had one new faculty appointment, Dr. Sevan Hopyan, has taken up a staff position at the Hospital for Sick Children with a cross-appointment at the Mount Sinai Hospital. Sevan’s primary interest is in orthopaedic oncology and orthopaedic oncology research. As you know Sevan is a graduate of our program having completed the Surgical-Scientist Program with a PhD and has done a clinical fellowship in paediatric oncology in Australia. Welcome back, Sevan.
This year we were pleased to appoint Dr. Melinda Musgrave to the Division of Plastic Surgery at St. Michael’s Hospital. Dr. Musgrave is a graduate of our program and completed a clinical fellowship in Oxford, England before returning to St. Michael’s. Dr. Musgrave’s clinical interests are in the area of Post-mastectomy Breast Reconstruction and wound healing and her research interest is in the area of clinical outcomes.

This year’s Hoyle Campell Visiting Professor was Dr. Steven Morris from Dalhousie University. We were pleased to accept the invitation of the Division of Anatomy to have Dr. Morris deliver the Harland Smith Lecture during his visit.

Recipients of divisional awards included Dr. Thomas Bell, who was awarded the Arnis Freiberg Teaching Award and Dr. Joel Fish who was awarded the WK.Lindsay Research Supervisor Award.

The resident research presentations are the highlight of the visiting professor’s visit. Dr. Brent Howley was awarded the Mentor Prize for the best clinical paper. Dr. Kyle Wanzel was awarded the John Edward deToro Scholarship for the best research paper.

The Mentor Systems Graduate Scholarship in Plastic Surgery was awarded to Dr. Daniel Martin.

Other awards won during the year included the Harrison Award for the best resident teacher at Sunnybrook and Women’s College to Dr. Allen Eckhouse. Dr. Karen Cross won the Young Investigator Award for her podium presentation at the American Wound Healing Society. Her talk was entitled “Determination of Burn Depth using Near Infrared Spectroscopy.” Dr. Cross is completing her PhD in the Surgeon-Scientist Program.

Dr. Christopher Forrest served as Chairman of the Plastic Surgery Research Council this year and hosted the annual meeting of the Council in Toronto in May. The Research Council is regarded as the most prestigious of the academic plastic surgery societies. It was a particular honor for our Division to host this as it was the 50th Anniversary Meeting of the Plastic Surgery Research Council.

Dr. Peter Neligan served as Scientific Program Chair for the North American Skull Base Society annual meeting which was also held in Toronto in April.

The 31st Annual Aesthetic Surgery Symposium was held at the Convention Center on April 15th and 16th. This was preceded by the 4th Annual Breast Surgery Symposium on April 14th. Both meetings were well attended.

We had 3 residents taking the Royal College examinations this year. All three, Drs. Kyle Wanzel, Will Andrade and Stephane Braun, were successful.

Fundraising continues to be a priority and in September we held our annual golf tournament to support the divisional PREFER fund. This event, held annually, raises approximately $30,000 to support research and education within the Division. In the coming year a campaign will be launched to raise money for a Chair in Plastic Surgery at the University of Toronto.
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 the rest of Canada. The Toronto Lung Transplant Program continues to be an international leader in clinical activity and outcomes. The End Stage Lung Diseases Program, a multi-disciplinary endeavor with the Respirology 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 advanced minimally invasive surgery for the management of both benign and malignant thoracic conditions. Our group is heavily involved in clinical trials in lung cancer, esophageal cancer and lung transplantation; with our division members being principle or co-principal investigators on a number of national and international multicentre trials.

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. Darling, Program Director. The F.G. Pearson Award for Best Resident/Fellow Teacher was awarded to Dr Karl Uy. The R.J. Ginsberg Award for Best Postgraduate Teacher was awarded to Dr. Michael Johnston. The inaugural G.E. Darling Award for Excellence in Undergraduate Teaching was awarded to none other than, Dr Gail Darling.

The Thoracic Surgical Research Laboratories continue to be very successful with grant capture and publications. 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 added significant strength and breadth by joining the Thoracic Surgery Research Group at Toronto General Hospital Research Institute. Our laboratory program continues to provide an exciting and productive research training environment, for graduate students and residents in the Surgical-Scientist Program (MSc, PhD) and for numerous postgraduate fellows from all over the world.

Recruitment, Promotion and Honours

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

Dr. Marc de Perrot was appointed as Assistant Professor and attending Thoracic Surgeon at Toronto General Hospital, University Health Network. Dr. de Perrot trained in Thoracic Surgery and lung transplantation at University of Toronto, in addition to completing his MSc degree in the Thoracic Surgery laboratory. His academic area of interest is in T cell biology related to immune surveillance in cancer and in pulmonary hypertension.

Dr. Carmine Simone trained in General Surgery, Thoracic Surgery and Critical Care at the University of Toronto. He has been appointed as an attending Thoracic Surgeon and Co-Director of the Intensive Care Unit at Toronto East General Hospital. His academic interest is in surgical education and critical care.

Dr. Mingyao Liu has been appointed as Associate Dean, Division IV, School of Graduate Studies at the University of Toronto. This tremendous honour is well deserved based on Mingyao’s significant and tireless contributions to graduate student education, in his previous position as Graduate Coordinator, at the Institute of Medical Sciences. It also provides a novel opportunity to enhance the relationships and interactions between hospital-based research institutes and the University.

Dr. Tom Waddell has been appointed as the R. Fraser Elliott Chair in Transplantation Research at University Health Network. This well deserved honour recognizes Tom’s significant contributions and achievements in transplantation and regenerative medicine research. This is particularly noteworthy, being the first endowed chair to be held by a Thoracic surgeon, at the University of Toronto.
Highlights

Dr. Tony Finelli joined the staff at Princess Margaret Hospital as Assistant Professor in January. He completed a Minimally Invasive Surgery Fellowship at the Cleveland Clinic. He brings a great advance in laparoscopic surgery, especially in radical prostatectomy, to the division. Tony will also continue his academic career in the Masters of Clinical Epidemiology course at the University.

Tony received a Canadian Urological Association Scholarship award to support his clinical research startup endeavours in June.

Dr. Kirk Lo was appointed to the staff of Mount Sinai Hospital as Lecturer. He completed a fellowship in Male Infertility Research in Houston and was awarded a Canadian Urological Association Scholarship in June 2004 to support his project in stem cell research. He was awarded a CUA scholarship in June 2004 to start his research and this June was awarded another scholarship to continue his work.

Dr. Sharon Sharir joined the staff at Sunnybrook and Women’s as Assistant Professor in July. Sharon completed a fellowship in Uro-Oncology and her main focus will be research in sex differences in pelvic cancer surgery.

Drs. Walid Farhat at the Hospital for Sick Children, Robert Nam at Sunnybrook and Women’s, and Kenneth Pace at St. Michael’s Hospital successfully passed their 3-year reviews.

Dr. Tony Khoury was reappointed site chief at SickKids for another 5-year term. His leadership for the past 10 years was successfully reviewed by Dr. John Brock of Vanderbilt University.

Hospital for Sick Children

Dr. Darius Bagli continued his work in The Role of Hypoxia in Fibroproliferative bladder Disease for which he was awarded a research grant from the National Institutes of Health. This two-year award is part of a five-year NIH O’Brien Centre Grant in Urologic Research and was awarded to Children’s Hospital in Boston. Dr. Bagli’s was the only project on this O’Brien Centre Grant outside the Boston Children’s Hospital.

Dr. Walid Farhat continued his work in tissue engineering and repopulation of acellular matrices for bladder reconstruction. Dr. Farhat was a guest speaker at the Lebanese Urology Congress, Beirut, Lebanon, in September where he spoke about Laparoscopy in Pediatric Urology and Lower Urinary tract Reconstruction in Preparation for Renal Transplantation. He was invited to Wayne State University, Detroit, Michigan, in January 2005 and spoke about Why Tissue Engineered Bladders are not yet Available for Clinical Use. Along with Lisa Cartwright (Urology Fellow), he won the 1st place poster prize at the Society for Government Urologists Kimbrough Seminar 2005 for research entitled: “Tissue engineered bladder neovascularization is enhanced with VEGF and quantifiable with dynamic contrast-enhanced MRI, in January.

Dr. Farhat continued his work on tissue regeneration and helped found the Regenerative Medicine Group at Sick Kids and hosted their first conference in May.

Dr. Farhat is the recipient of an award from the The Canadian Association of General Surgeons for the project entitled: Small Bowel Acellular Matrix as a Small Intestinal Substitute in a Porcine Model, along with P. Wales (PI) and J. Kim. He is the PI on a project funded by the Cleveland Clinic Foundation (Biomedical Research and Technology Transfer Program-part of Ohio’s Third Frontier Initiative), entitled: Biologically Enhanced Fascia Lata Graft for Soft Tissue Repair, with K. Derwin as investigator.

Dr. Farhat successfully passed his 3-year review.

Dr. Tony Khoury, site chief at HSC, was reappointed for a 3rd 5-year term. He underwent a successful external review by Dr. John Brock, Chief of Pediatric Urology at Vanderbilt University in Nashville.

Dr. Khoury was an invited speaker to the Quebec Urological Association, Montreal, QC, in November where he spoke about Current Challenges and Advances in Achieving a Tissue Engineered Bladder and was a panelist in the session: Update on the Current Problems in Pediatric Urology. He was guest faculty at the Sao Paulo State Urological Society, Sao Paulo, Brazil, in May and gave talks on Impact of Prenatal Diagnostic Pediatric Urology, How to Avoid and Treat Complications in Hypospadias, In Utero Surgery, Re-do Pyeloplasty: Technical Pointers, Surgical Treatment for Neurogenic Bladder Dysfunction, and VUR: is endoscopic treatment suitable for all patients. He also continued his research in infection.
Dr. Khoury was asked to be a moderator at this year’s annual Society for Pediatric Urology annual meeting in May, Session title “Urodynamics with infants with MMC: what should be the academic Standard? At the AUA Meeting in San Antonio he was invited to participate as a Point-Counterpoint Moderator at the Plenary Program for the session entitled “Sibling Screening for Vesicoureteral Reflux” on May 22, 2005.

Dr. Khoury was invited to speak at this year’s annual Genitourinary Reconstructive Surgeons (GURS) meeting session on: Urethra from Top to Bottom and From Young to Old” Dr. Khoury’s Topic “Proximal Hypospadias”, held in conjunction with the AUA.

Dr. Lori Burrows continued as Director of the Centre for Infection and Biomaterials Research. She directs the centre that has masters, PhD candidates and postdoctoral fellows. Dr. Burrows continued her extensive and well-funded work in bacteria and biomaterials. She was invited to be a member of the Grants Review panels of Canadian Institutes of Health Research (Microbiology and Infectious Disease) and the National Institutes of Health (Infectious Disease and Microbiology-A Special Emphasis Panel).

Dr. Burrows addressed the Department of Microbiology, Molecular Biology and Biochemistry, University of Idaho, Moscow, Idaho and spoke about “Pseudomonas goes fishing: studies of type IV pili” in December. She also spoke at the Canadian Bacterial Diseases Network meeting in Banff in February. Dr. Burrows received a Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant Application for her project entitled: Pleiotropic effects due to loss of single peptidoglycan remodelling enzymes. This is a 5-year project. She also received a CIHR Institute of Infection and Immunity Pilot Project Grants for New Investigators for her project entitled: Peptidoglycan synthesis and bacterial biofilm formation.

Dr. Burrows, along with Dr. Christine Bear as PI, received grants from the Canadian Cystic Fibrosis Foundation for the project entitled: Targeted small molecular therapeutics for cystic fibrosis, and for the project entitled: Targeted small molecules therapies for CF.

Dr. Burrows was awarded the Elsie Winifred Crann Memorial Trust Award for Medical Research in Cancer, Pulmonary, Kidney and Urinary Diseases, University of Toronto, in November. The award helps fund her research.

Dr. Joao Pippi-Salle started an educational project to produce an Interactive Multimedia CD-ROM for teaching operative pediatric urology. He has received funding from the Instructional Technology Courseware Development Fund from the University.

Dr. Pippi-Salle held a Workshop at the International Continence Society Meeting in Paris on Urological Management of Myelomeningocele from Birth to Adulthood in August. He spoke about Urological management of the newborn and the first years of life, Surgical management of the outlet, Role of Vescicostomy in the Management of Child Neurogenic Bladder, and The Pippi Salle Procedure. At the American Academy of Pediatrics, San Francisco, California, October, he was Moderator for Session entitled “Reconstruction”. He also participated as faculty in the course at the American Urological Association (AUA) entitled: “Urological and Fecal Management of Myelomeningocele” held in San Antonio on May 24th, 2005. Dr. Pippi-Salle was Visiting Professor to the Department of Urology/University of Laval, Quebec City, Quebec, in September. He gave presentations on Alternatives for Bladder Augmentation, Intersex, and Management of Antenatal Hydronephrosis. He also performed demonstrative surgery on 2 Hypospadias Patients. He was also Visiting Professor at C.H. Ibn Rochd. Hopital d’Enfants, Casablanca, Morocco May 7 to 14th, 2005. He gave lectures entitled: 1.Management of Antenatal Hydronephrosis 2. Urethral duplication: how to manage? 3. What new in pediatric urology? Live Surgery: 1.Construction of continent diversion (Penn Pouch), 2. Re-do epispadias and bladder neck reconstruction 3- Omphaloplasty: a novel technique to construct a umbilicus 4. Construction of uretero-colonic pouch (Mansoura Pouch) and 5. Severe perineal hypospadias. Dr. Pippi-Salle participated in the 8th Annual Course on Management of Hypospadias, Istanbul, Turkey, Nov 25, 2004 - Dec 5, 2004. He presented Pre-op Evaluation of patients with Hypospadias: Relevant Points, Technical Details to Achieve Optimal Result in Hypospadias Repair, The Pippi Salle Procedure to Correct Urinary Incontinence; When and How to Perform it, and Video Course on Hypospadias Surgery which involved presenting 5 surgical cases. Dr. Pippi-Salle directed the very successful First Annual Symposium of Management of Vesicoureteral Reflux in October.

Mount Sinai Hospital
Dr. Keith Jarvi, site chief at MSH, continued the Male Infertility Program and as Director of the The Murray Koffler Urologic Wellness Centre (MKUWC). He directed a Men’s Health Update for Family Physicians at the Vaughan Estate in October.

Dr. Jarvi again organized the Annual Robson Research Day Resident and Fellow scientific presentation contest.

Dr. Jarvi delivered the Healthy Living Lecture, Toronto, Ontario, in May 3, on Andropause: “The Male Menopause”. He also spoke to the Astra Fertility Group, Mississauga, Ontario, in May, about Update on Male Infertility, Evaluation and Treatment.
**Dr. Kirk Lo** began his practice focused on Male Infertility and basic infertility research in July. His project is to stem cells. He participated as faculty in a Stem Cell Workshop at the American Society of Reproductive Medicine in Philadelphia in October speaking about: Stem cell technology for male infertility research. Dr. Lo also received a scholarship (2004-2005) from the Canadian Urological Association Scholarship Fund (CUASF) for his research in “A novel model for the xenotransplantation of fresh and cryopreserved testicular tissues using immunodeficient NOD/SCID mice”.

**Sunnybrook & Women’s College Hsc**

**Dr. Lesley Carr** continued her work in Female Urology. She was an investigator in grant entitled: A randomized multicentre clinical trial to evaluate the efficacy of amitriptyline for the treatment of painful bladder syndrome (PBS) in newly diagnosed patients, with Dr. JC Nickel as PI. The grant is funded by the NIH. Dr. Carr also directed the weekly Urology School for the residents until January and continues to arrange the journal club sessions. Dr. Carr moderated Incontinence Podium Sessions at the AUA meeting in San Antonio in May and at the CUA meeting in Ottawa in June. She gave Gynecology Grand Rounds at St. Joseph’s Hospital in Toronto on Diagnosis and Management of Interstitial Cystitis.

**Dr. Sender Herschorn** continued as University Division Chair and the Department Continuing Education Director.

Dr. Herschorn was Visiting Professor to the Division of Urology University of British Columbia, Vancouver, BC, in March. He was also guest speaker at the UBC Bladder Care Centre Symposium and opening and spoke about surgical treatment of stress urinary incontinence. He was also Visiting Professor to the Department of Urology, Queen’s University and Kingston General Hospital. He lectured about female stress incontinence and demonstrated the trans-obturator approach for SUI. He was Chairman of the Section on Surgery for Male Uroinary Incontinence and delivered the major address on the subject at the 3rd International Consultation on Urinary Incontinence in Monaco in July. Dr. Herschorn gave talks in Kelowna, BC, in September on overactive bladder and management of urinary incontinence. He demonstrated the obturator sling for female stress incontinence and perineal sling for male stress incontinence at North Bay General Hospital, North Bay, ON, in July. He also demonstrated the obturator procedure at Surrey Memorial Hospital, Surrey, BC, in December, and at Thunder Bay Regional Health Sciences Centre, Thunder Bay, ON, in November.

Dr. Herschorn lectured on: Evolution of the transobturator procedure in women at a Satellite symposium at the International Society of Urology Meeting, Honolulu, Hawaii, in October.

He participated in a workshop at The International Continence Society Meeting, Paris, France, August, Workshop on spinal cord injury neurogenic bladder 1. From the first day to the end of spinal shock. 2. Autonomic dysreflexia. He was also invited to speak at Current Problems in Urology in collaboration with University of Montreal, Mont Trenblant, QC, January, Workshop on Urinary Incontinence. He was invited lecturer to QUEST 2005 - Queen’s University Annual Senior Urology Residents Review Course, Kingston, ON, February. Urodynamics. Dr. Herschorn was a moderator at the Canadian Urological Association Annual Meeting, Ottawa, ON, June, session on endourology/incontinence, at the International Society of Urology Meeting, Honolulu, Hawaii, October, session on superficial bladder cancer, and at the American Urological Association Annual Meeting, San Antonio, TX, in May, session on urodynamic testing. Dr. Herschorn was Director of the 12th Annual Division of Urology course Urology Update.

Dr. Laurence Klotz, site chief at S&W, continued his research in Uro-oncology and his many leadership appointments including Editor-in-chief of the Canadian Journal of Urology. Dr. Klotz was invited to address the European Association of Urology Annual Meeting Istanbul Turkey on the Role of frozen section in urologic oncology, in March. As Chair of the Canadian Urology Research Consortium he directed a Consortium Retreat, in February, in Collingwood, Ontario. Dr. Klotz initiated the World Uro Oncology Federation, (WUOF), an organization of 12 national and regional Uro Oncology Societies around the world. He was elected chairman of this organization at the founding meeting.

In Translational research, he has initiated several correlative science studies based on the PR-7 trial: a) an NCIC funded translational research study examining novel biomarkers as predictors for androgen independent progression in this well defined cohort, and b) an Ontario Cancer Research Network study comparing bone mineral density in the intermittent and continuous patient cohorts. In 2005, he was the clinical leader on a successful application to the Ontario Cancer Research Network for a $5,000,000 grant to establish an Ontario Cancer Biomarker Network.

**Dr. Ron Kodama** continued as Program Director. Dr. Kodama also organized the second Annual Resident Basic Science Course, Delta Chelsea Hotel, Toronto, in February. He again organized the Surgical Skills Lab session on TURP and TURBT. He directed the annual Urology Fair 2005. He won the Division of Urology Postgraduate Education Award, for outstanding clinical teaching to residents. Dr. Kodama also won the Peters-Boyd Academy award for PBL Teaching. Dr. Kodama was elected to the Board of the GU Reconstructive Surgery Society.

Dr. Robert Nam continued his work in uro-oncology with research in the genetics of prostate cancer.
Dr. Nam was a guest speaker at the Mexican Urology Association Meeting in April 2005 and spoke about Hormonal Therapies for Prostate Cancer and Radical Prostatectomy. Dr. Nam also won the A.W. Bruce Undergraduate Teaching Award for excellence in undergraduate teaching.

Dr. Sharon Sharir joined the staff at Sunnybrook and Women’s in July after completing a fellowship in Uro-oncology, including training in Minimally Invasive Surgery. Her area of research gender differences in major pelvic cancer surgery. Dr. Sharir received a grant entitled: A qualitative exploration of women’s and men’s experiences when undergoing radical cystectomy for bladder cancer. Her coinvestigators are Debbie Miller and Margaret I. Fitch. It is PBR Award from Sunnybrook and Women’s.

Dr. Vasundara Venkateswaran continued her basic research in prostate cancer. This June she was awarded the Canadian Prostate Cancer Research Initiative - New Ideas grant as Principal investigator (Drs. Klotz, Fleshner and Sugar are Co-investigators).

The title of the grant is “Biomarker discovery in a transgenic mouse prostate cancer prevention model.”

University Health Network
Toronto General & Princess Margaret Hospitals

Dr. Neil Fleshner, site chief at the UHN, continued his clinical and basic research in prostate cancer with major peer-reviewed grants.

Dr. Fleshner addressed the Canadian Prostate Cancer Network, Calgary, Alberta, in August, on Role of diet in prostate cancer prevention. He spoke at the Global Uro-oncology Forum, Wakiki, Hawaii, in September, on High risk prostate cancer. He also was invited to speak at the GlaxcoSmithKline Global Uro-oncology Think Tank, Barcelona, Spain, in November, on New methods for prostate cancer detection.


Dr. Michael Jewett continued his clinical and research work in Uro-Oncology. Dr. Jewett was elected President of the Canadian Urologic Association for a 1-year term. Dr. Jewett won the Division of Urology Postgraduate Teaching Award for outstanding surgical teaching to residents, June.

Dr. Michael Robinette continued as the major individual contributing to the Multi-organ transplant program.

Dr. John Trachtenberg continued his active research into novel therapies for prostate cancer. He was Visiting Professor in the Division of Urology at the University of Washington, Seattle, Washington, in March and spoke about Current treatments for advanced prostate cancer. Dr. Trachtenberg addressed Negma Lerads, in New York, New York, in May and spoke about Clinical results of a Phase I/II study on the efficacy of photodynamic therapy in the treatment of recurrent prostate cancer following radiation treatment. He presented at Challenging Cases in Prostate Cancer Meeting, Las Vegas, Nevada, in June on New Treatments for Prostate Cancer. He also gave a talk at the Princess Margaret Hospital Foundation, Toronto, Ontario, in June and the topic was: An Ounce of Prevention is Worth a Pound of Cure: The Role of Prevention and Screening in the Fight Against Cancer. Dr. Trachtenberg was the CUA Scholarship Foundation guest speaker at the Canadian Urological Association, Ottawa, Ontario, in June and spoke about “Prostate Cancer, Where Are We Headed?”

Dr. Trachtenberg’s new research grants include Photodynamic Therapy - Basic Science Studies, with Zheng H, Hetzel FW, Chen Q, Trachtenberg J, Wilson BC, from the National Institutes of Health. He also has grant from the Prostate Cancer Research Foundation of Canada entitled: The Role of Androgen Ablation in the conditioning of Prostate Cancer to Photodynamic and Other Oxidative Stress-based Therapies, with Wilson BC, Pinthus J, Trachtenberg J. He is working on Effects of photodynamic therapy on urinary symptoms due to benign prostatic hyperplasia, as the PI and is funded by QLT Inc. Dr. Trachtenberg co-chaired the 13th Annual Issues and Controversies in Prostate Cancer with Drs. Larry Goldenberg, UBC, and Ian Thompson, University of Texas at San Antonio in Jamaica in March.

Dr. Tony Finelli joined the staff at PMH/UHN after completing a fellowship in Minimally Invasive Surgery at the Cleveland Clinic Foundation in Cleveland, OH. He received a Canadian Urological Association Scholarship award to support his clinical research startup endeavours in June. Dr. Finelli addressed the Sociedad Colombiana de Urologia, Cartagena, Colombia, Aug 2004, on Laparoscopic radical prostatectomy. He also performed live laparoscopic radical prostatectomy. He was invited to the Instituto Medico La Floresta, Caracas, Venezuela, in November and spoke about Laparoscopic partial nephrectomy: Technical nuances. He also performed a live laparoscopic partial nephrectomy. Dr. Finelli was invited to the 1st Ege University Laparoscopic Urology Course, Izmir, Turkey, in April. He spoke about Laparoscopic radical prostatectomy and as Visiting Professor performed live laparoscopic radical prostatectomy. He
also addressed the Society of Urologic Surgeons of Ontario, in Toronto in May, on Laparoscopic radical prostatectomy. Dr. Finelli was Moderator for a podium session on Laparoscopy at the Canadian Urological Association Meeting in Ottawa in June.

**University Health Network**  
**Toronto Western Hospital**  
**Dr. Magdy Hassouna** continued his basic and clinical work in neurourology and neuromodulation.

Dr. Hassouna moderated a session on Neuromodulation at the combined Society for Urodynamics and Female Urology/International Society for Pelvic Neuromodulation (SUFU/ISPiN) in Orlando in February.

**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 spoke about BPH at the Men’s Health Update for Family Physicians- Murray Koffler Urologic Wellness Centre, in October at the Vaughan Estate. Dr. Radomski also spoke at Primary Care Today- University of Toronto Conference, Toronto, in May, on BPH: An update in treatment and PSA screening. Dr. Radomski is an investigator in the following peer-reviewed grants: The role of self-care in risk factor management among incontinent older woman: Development of an evidence based self-care risk factor modification tool for urinary incontinence with Holroyd-Leduc JM, Straus S, Radomski SB, Davis D, Lingard L: Dean’s Fund University of Toronto; and Sexual Dysfunction and Adaptation in Couples Affected by prostate Cancer Surgery: Steps Towards a Biopsychosocial Model of Treatment, with Mathew, Andrew, Ritvo P, Irvine J, Trachtenberg J, Jewett M, Fleschner N, Radomski S, Tsilias J, Shaw B, Katz J, Weitzman E: Canadian Institutes of Health Research (CIHR).

**St. Michael's Hospital**  
**Dr. John Honey**, site chief at St. Michael’s, continued his work as Director of Endourology. Dr. Honey was Invited Faculty at the 22nd World Congress on Endourology and SWL, 20th Basic Research Symposium, Mumbai, India, Nov 2004. His Podium Presentation was titled “The effect of shock rate on the success of shock wave lithotripsy” and at the same congress he was moderator of the Video Session “Percutaneous Nephrolithotripsy”. Dr. Honey was also Invited Faculty, Workshop on Ureteroscopy and Holmium Laser Lithotripsy at Current Problems in Urology, Mt. Tremblant, Quebec, in February.

**Dr. Kenneth Pace** continued his work in clinical epidemiology and Stone disease and Minimally Invasive Surgery. Dr. Pace addressed the Annual meeting of the Urologic Society for Transplantation and Vascular Surgery, San Antonio, Texas, in May. His talk was entitled: Prospective comparison of health-related quality of life following laparoscopic and open donor nephrectomy. He also spoke at the Annual meeting of the Acoustical Society of America, Vancouver, in May. His title was: Shock wave lithotripsy at 60 or 120 shocks per minute: a randomized, double-blinded trial. The University of Toronto Dean’s Fund New Faculty Award was given to Dr. Pace as PI. The project is entitled: The Impact of pneumoperitoneum on renal physiology: a rat model. His co-investigators are Stewart RJ, Honey RJD, Hare G, and Blew B. Dr. Pace also received a grant from Physician Services Incorporated entitled:The impact of laparoscopic surgery on renal physiology. His co-investigators are Stewart RJ, Honey RJD, Hare G, and Blew B. Dr. Pace was elected Chair of the IT committee for the Canadian Urological Association at the Annual Meeting in June.

**Dr. Robert Stewart** continued as the principal urologist in the kidney transplantation program. He also continued his basic research into angiogenesis in prostate cancer. Dr. Stewart took on the role of being in charge of the Urology Residents weekly seminar in January. He also became director of undergraduate surgery education at SMH. He enrolled in the Master of Education Program at OISE/UT.

**Academic Events & Divisional Awards**  
The **Annual Charles J. Robson Research Day** was held on April 1. The Visiting Professor was Dr. Michael Marberger, Chairman of the Division of Urology, University of Vienna, in Vienna Austria. There were 25 research presentations from the division and the winners in the various categories were as follows:

- Resident basic science 1st prize: Ethan Grober
- Resident clinical 1st prize: Michael Kogon
- Resident basic science 2nd prize: Girish Kulkarni
- Resident clinical 2nd prize: Timothy Davies
- Fellow basic science 1st prize: Ahmed Haddad
- Fellow basic science 2nd prize: Jehonatan Pinthus
- Fellow clinical 1st prize: Alessandro Volpe
- Fellow clinical 2nd prize: Luke Fazio
Highlights Undergraduate and Postgraduate Education
Dr. Kodama again organized the Annual Basic Science Course for Urology Residents. All Canadian PGY1-3 Urology residents attended the event, Feb 27-29.

The annual MCCQE evening review lecture series in Urology was held in March and co-coordinated by Sender Herschorn with participation by Drs. John Honey, Michael Jewett, Sid Radomski, John Trachtenberg, Keith Jarvi, and Walid Farhat. The lectures and notes are updated yearly.

Visiting Professors
There were a total of 12 visiting speakers and professors in the division in 2004-05.

Dr. Michael Marberger from the University of Vienna was the Robson Day Visiting Professor. Other speakers at the Update were Dr. Gerald Chodak from the University of Chicago, Dr. Steven Docimo, Director of Pediatric Urology, University of Pittsburgh, Dr. Roger Dmochowski from Vanderbilt University, Dr. Philip Hanno, from the University of Pennsylvania, Mr. Freddie Hamdy, Professor and Chair of Urology, University of Sheffield, UK, Dr. Peter Carrol, University of California San Francisco, Dr. Jack McAninch, - Vincent Colapinto Memorial Lecturer, from the University of California San Francisco, Dr. James. Lingeman, MD, Indiana University School of Medicine, and Dr. Joel Teichman, University of British Columbia. Dr. Gerald Andriole from Washington University in St. Louis was a Visiting Professor. Dr. Jack Elder from Case Western Reserve addressed the VUR symposium in October.

Continuing Professional Development
The 12th Annual Division of Urology course Urology Update was held at the Westin Harbour Castle. Course director was Sender Herschorn with Laurence Klotz co-director. The planning committee included John Honey, Sid Radomski, John Honey, Tony Khoury, Lesley Carr, Kenneth Pace, and Ron Kodama.

Other participants were Darius Bagli, Walid Farhat, Neil E. Fleshner, Magdy Hassouna, Michael Jewett, Robert Nam, Kenneth Pace, Joao Pippi-Salle, Sharon Sharir, and John Trachtenberg.

Dr. John Trachtenberg co-chaired the 13th Annual Issues and Controversies in Prostate Cancer in Jamaica, WI. It was again highly successful.

Dr. Keith Jarvi convened a program for Family Physicians on Men Health, in conjunction with the Murray Koffler Men’s Health Centre, in October.
Thomas Lindsay – Chair

Introduction
This past year has been one of continued uncertainty with respect to the reorganization of Vascular Surgery services in the University of Toronto teaching hospitals. During the year, tremendous efforts have been made to achieve new hospital funding for two centers of excellence, to provide vascular surgical care at St. Michael’s and University Health Network. The framework for an alternate funding agreement has been developed. At present, offers are being finalized and if accepted, the division will be regionalized. This will involve the transfer of Vascular Surgery from the Toronto East General Hospital and St Joseph’s Health Center to St Michael’s and Toronto General Hospitals respectively. This process initiated by the Division in conjunction with the Ministry of Health, will consolidate vascular surgery and create a critical mass of surgeons to deliver patient care, education and research. Access to minimally invasive catheter and stent-based technology will be integral parts of these new centers. Dr. Szalay left St Joseph’s Health Center for Hamilton and Dr. George Oreopoulos has been appointed to that position.

Administration
Drs. Thomas Lindsay and Wayne Tanner were appointed to the Vascular Services GTA Review Steering Committee headed by Mr. Jeff Lozon. Following approval of a reorganization plan an implementation committee headed by Dr. Robert Howard of St. Michael’s was struck with Drs. Tanner and Lindsay designated as surgeons representatives. In addition both are involved in negotiating an AFP for the University of Toronto Division Vascular Surgery. These committees were charged with redesigning and coordinating Vascular Surgery Care in the GTA. Dr. Lindsay was appointed as the Deputy Chair of the Vascular Surgery Examination Board at the Royal College of Physicians and Surgeons starting September 2004. Dr. Lindsay was appointed as the President Elect of the Canadian Society for Vascular Surgery at the October 2004 meeting.

Dr. K.W. Johnston continues as R. Fraser Elliott Chair in Vascular Surgery and Editor-in-Chief of VascularWeb, a consortium of eleven the North American Vascular Societies and editor of a new vascular newspaper called the Vascular Specialist. Dr. Johnston was appointed Vice-President of the Society for Vascular Surgery at the June 2005 meeting, a position that will lead to the Presidency of that organization in June 2007. He will continue as the vice-chair of the Distinguished Fellows Council of the Society for Vascular Surgery and a member of the Board.

Dr. Barry Rubin continues as the Chairman and CEO for both 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 elected to be the Provincial Representative for the Academic Health Science Center Alternative Funding Plan Governance Organizations in Ontario, and will be a representative on the AHSC AFP Task Force. Dr. Tanner continues as the Head of the Section of Vascular Surgery at the Ontario Medical Association. He was reappointed to the Physician Services Committee, which is the interface between the OMA and the MOHTC for ongoing contractual issues. This follows upon the extensive work he has done for the profession at the OMA in negotiating a new collective agreement for the physicians of Ontario.

Dr. Wooster continues as the Chair of the Standards Committee of the Royal College of Physicians and Surgeons Maintenance of Certification Program; this Committee is structuring the next cycle of this CPD program for all Fellows. He also served as President of the Medical Staff Association of St. Joseph’s Health Centre.

Graduates
Drs. George Oreopoulos and Ali Jawas successfully completed fellowship certification by the Royal College of Physicians and Surgeons in September 2004. Dr. Oreopoulos was appointed to the surgical staff at St. Joseph’s Health Center.

Research
Dr. Wayne Johnston continues with his 4-year CIHR grant to support his basic research programs with Professors Richard Cobbold and Matadal Ojha (Biomedical Engineering) in Doppler ultrasound; hemodynamics studies continues as his major research endeavor.

Dr. Rubin is funded as the Primary Investigator on grants from CIHR and the Heart and Stroke Foundation of Canada for research into gene regulation in the heart.

Dr. Lindsay has established a risk factor assessment and intervention program with a database (SAVR, Systematic Assessment of Vascular Risk) for patients with atherosclerosis. It aims to document the current state of risk reduction therapy and develop strategies to improve the care of patients with vascular disease. Dr. Lindsay continues to be funded by Physicians Services Incorporated, for his research into mechanisms of organ injury following ruptured abdominal aortic aneurysms.

Dr. Alan Lossing and David Courtman received $65,000 from Heart and Stroke for AAA research examining the AAA matrix and its function.

Clinical Programs
Dr. Oreopoulos has developed a comprehensive vascular access program for assessment and triage of dialysis patients requiring surgical creation of dialysis access. This has resulted in very high levels of fistula creation and usage at St. Joseph’s Health Center.
Awards
Dr. Rubin was named a Distinguished Fellow of the Society for Vascular Surgery at the June 2005 meeting.

External Visits and Visitors
External visits by members of the Department included Dr. Rubin who was a Visiting Professor at the Karolinska Institutet in Sweden. Drs. Johnston, Kucey and Lindsay, presented at the Winnipeg Vascular Surgery course in April 2005. Drs. Johnston, Lindsay, Oreopoulos and Wooster presented on the applications of Duplex ultrasound at the VITO meeting in Toronto in May 2005. Dr. Johnston was invited to give the Luc Deschenes Lectureship at Laval University and was also invited to McGill University, the South Florida Society for Vascular Surgery and the Atlantic Vascular Society. Dr. Lindsay was an invited speaker at the Pacific Northwest Vascular Society and the Gulf Coast Vascular Society.

DIVISION OF ANATOMY

Michael J. Wiley - Chair
This past year, members of the Division provided one or more courses in Anatomy to over 1600 students, from 11 programs across six Faculties of the University. We were successful in obtaining new funding to help in developing the laboratory components in several of these courses. Awards obtained from the Academic Incentives Fund in collaboration with the Faculties of Dentistry and Physical and Health Education, will allow the Division to enrich the gross anatomy laboratories offered to students in these programs and to create more opportunities for graduate students to gain teaching experience. An award from the Provost’s Information Technology Development Fund with matching funds from the Faculty of Medicine, will underwrite the development of a ‘virtual microscope’ to be used in teaching Histology to the medical class. Utilizing compression and streaming software, high resolution annotated scans of microscope sections, can be delivered over the internet, allowing a student’s computer to emulate a microscope. This approach will eliminate the classic histology ‘microscope lab’ from the medical timetable and will provide for a more student-centred approach to learning Histology. Using the highest quality images, the ‘virtual microscope’ lab units will offer students the flexibility to schedule their own time for laboratory study, together with self- assessment tests and unlimited opportunity for review.

Honours and Awards
Dr. Ian Taylor received the E. Mary Hollington Award for teaching with distinction in the undergraduate preclinical curriculum and Anne Agur received her second the W.T. Aikens Faculty Teaching Award for individual teaching performance. The Division received a special presentation from the Sunnybrook-Osler Centre for Prehospital care for its outstanding contribution and commitment to paramedic education. Dr. Cindi Morshead has been appointed to the Editorial Board of Current Stem Research and Therapy and Anne Agur has been appointed an Associate Editor of Clinical Anatomy. The interactive website developed by Dr. Pat Stewart entitled Functional Neuroanatomy, was accepted “with distinction” by the Health Education Assets Library (HEAL). HEAL is a repository of peer reviewed digital educational media in medical science and is a part of the USA National Digital Science Library.

Personnel
Dr. Mina Kim successfully defended her Master’s thesis under the supervision of Dr. Cindi Morshead and two new postdoctoral fellows, Drs. Anna Erlandson and Tasneem Zahir have recently joined Cindi’s lab.

Professor Mike Wiley has been re-appointed for a second term as Division Chair.

Dr. Bernie Liebgott has officially retired from the University as of July 1, 2005 after 40 years as a Professor of Anatomy. He has graciously agreed to return post-retirement to help with our undergraduate teaching. There is a search currently underway for a new recruit to fill the tenure stream position opened by Bernie’s retirement.
The Surgical Alumni Association creates programs and opportunities to reach its mandate, leading by example to encourage the participation of surgical alumni, faculty and friends. The mission statement of the Surgical Alumni Association is the “preservation of our legacy, in research, investigation and education, and to uphold the integrity of the Surgeon Scientist Program at the University of Toronto.”

Looking back at 2004-2005, the programs we have put in place over the years have lead to some significant milestones. First, due to the overwhelming generosity and acceptance of the concept of annual giving by alumni and current faculty (and bolstered by various government and university matching programs over the years) this year the Surgical Alumni Fund endowment has been built up to over $1 million! While this is clearly a time to pause and celebrate a source of funds which will support our surgeon scientist trainees in perpetuity, it is good to remember that this endowment will conservatively yield about $45,000 annually, approximately equivalent to the salary of only one of our twenty-odd trainees each year. And so we continue to encourage every former resident, fellow and faculty member to support the Surgical Alumni Fund with a gift of $1,000 each year, or any amount you are comfortable with. Again, it is the Association’s mandate to build this fund to be able to expand the unique and imperative Surgeon Scientist Program.

In 2004-2005, our alumni were also key to the success of another large-scale project. Led by Dr. Sender Herschorn, Chair, Division of Urology, the division’s $2 million fundraising campaign milestone for the Martin Barkin Chair in Urological Research was reached. This campaign was particularly poignant as the honoree, Dr. Martin Barkin, is an alumnus of the Faculty of Medicine and the Gallie course in our department. The incumbent and first Barkin Chair holder, Dr. Sender Herschorn, is also another alumnus of our Department of Surgery, completing his residency here thirty years ago as well as a postgraduate fellowship. Dr. Herschorn describes Dr. Barkin as “a role model of a brilliant academic clinician and surgeon, who treated residents as junior colleagues rather than employees, an exception to the norm back then.”

We also need to thank and commend the chairman of our department, Dr. Richard Reznick, and Dr. Martin McKneally (editor) and their staff for designing and producing the high-quality and relevant newsletter, The Surgical Spotlight, which goes out four times a year to more than 2300 of our alumni and keeping them ‘in the fold’. The more we communicate with alumni, the more they will continue to feel engaged with the department and support our activities.

Lastly, our enduring gratitude goes out to all faculty members and alumni who support the activities of the Surgical Alumni Association.
Surgical Oncology is expanding and maturing across the University of Toronto. Activity is intensifying at Sunnybrook and Women’s College Health Science Centre, the University Avenue hospitals and St. Michael’s Hospital. This evolution at the University is occurring at a time when the focus on coordinated, multidisciplinary cancer management in Ontario, is increasing. New cancer centres, such as the ones recently announced at Southlake Regional Health Centre and St. Catherines, are emblematic of this progress.

Clinical & Administrative Impact

University of Toronto programs in urologic, head & neck, thoracic, musculoskeletal, gynecologic and general surgical oncology, play increasingly important roles in managing high intensity, complex cancer cases from across Ontario. For example, the Musculoskeletal Oncology program has formally expanded its catchment to the entire country. Dr. Jay Wunder has taken over the leadership of this program as founder Dr. Bob Bell, has assumed the leadership of the University Health Network.

Surgical Oncology continues to attract significant focus at the Ministry of Health, Cancer Care Ontario and hospital level. Dr. Jonathan Irish has led initiatives focusing on surgical wait times and volume-complexity funding, which promise to increasingly stabilize resources for cancer surgery in Toronto and across Ontario. David Urbach has been appointed Research Director for Cancer Care Ontario’s Surgical Oncology program. This important role will help to evaluate the impact of various efforts, to standardize and improve the quality of cancer care throughout the province. University of Toronto’s surgical oncology faculty lead many of these initiatives.

Teaching & Research Achievements

Robust fellowship programs continue to produce new graduates in Surgical Oncology. The General Surgical Oncology Fellowship under the stewardship of Dr. Carol Swallow, has become the third largest such program in North America, second only to the Memorial Sloan-Kettering Cancer Centre and MD Anderson Cancer Centre. Eighty percent of the graduates from this program have gone on to populate the new cancer centres in Ontario. Similarly, at the University, all surgical oncology divisions continue to recruit and expand. For example, Drs. Sharon Sharir and Tony Finelli have joined the ranks of Uro-oncologists at U of T.

University of Toronto Faculty are involved in a broad range of research ranging from basic science to clinical epidemiology and knowledge transfer. Dr. Sherif Hanna has spearheaded the development of a Chair in Surgical Oncology Knowledge Translation, at Sunnybrook & Women’s College Health Sciences Centre.
Continuing professional development continues to be a major focus within the department. Most members participate actively in educational programs of all descriptions.

Five years ago the members of the department began recording their CPD activities in compliance with the Royal College of Physicians and Surgeons of Canada guidelines for accreditation. The guidelines require tracking all of the CPD activities for each year is well known. Fellows are required to earn 400 credits during 5 years of active practice by participating in educational activities of their choice. The first 5-year cycle extends from January 1, 2001 until December 31, 2005. Those who began in 2000 have 6 years to complete the mandatory 400 hours. Members are required to submit continuing professional development (CPD) hours from the previous year by the January 31st deadline. Details of the program can be obtained from the following website: www.mainport.org/default.asp#. Each year a random sample of 3% of fellows will be required to validate their self-reports of participation in educational activities.

The documentation required for the different types of CPD activities are in the following table.

<table>
<thead>
<tr>
<th>Type of activity</th>
<th>Documentation required</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Section 1: Accredited group learning activities</strong></td>
<td>Planning committee responsible will provide upon request written confirmation of attendance</td>
</tr>
<tr>
<td>Grand rounds, journal clubs, etc.</td>
<td></td>
</tr>
<tr>
<td>Meetings, conferences, workshops, etc. (inside or outside of Canada)</td>
<td>Registration receipt or program schedule (dates and hours required)</td>
</tr>
<tr>
<td>Small group learning sessions</td>
<td>Designated responsible fellow to provide written confirmation, upon request, of attendance</td>
</tr>
<tr>
<td><strong>Section 2: Group learning and self-directed CPD</strong></td>
<td>No documentation required</td>
</tr>
<tr>
<td><strong>Section 3: Accredited self-assessment programs</strong></td>
<td>Written confirmation of completion by sponsor</td>
</tr>
<tr>
<td><strong>Section 4: Structured person learning projects</strong></td>
<td>Physician must document the item, the stimulus, references, outcome of learning (WebDiary fulfills requirements)</td>
</tr>
<tr>
<td>Traineeships</td>
<td></td>
</tr>
<tr>
<td>Preceptored courses, fellowships, Masters or PhD programs</td>
<td>Documentation showing evidence of course completion by sponsoring university or college</td>
</tr>
<tr>
<td><strong>Section 5: Practice review and appraisal</strong></td>
<td>Audit proposal forms; date of completion; outcomes for practice; description of participation of physician in developing the audit; summary of findings</td>
</tr>
<tr>
<td><strong>Section 6: Educational development, teaching, and research</strong></td>
<td>List of relevant activities</td>
</tr>
</tbody>
</table>

The RCPSC website home page contains a link to “Maintenance of Certification” page that contains a link to Guidelines for CPD Providers. This contains information on accrediting programs, application forms, and contact information for accredited providers.
The next cycle will begin in 2006 until 2010. It is evident that changes should be considered to the framework of educational (CPD) options. Academic physicians spend countless hours on publications, preparing presentations or teaching sessions, developing examination questions, research, and setting standards for the profession such as clinical practice guideline development. Yet all of this activity, despite the total number of hours, counts for a maximum of 20 credits (hours) per year and 100 credits over 5 years. Since this activity is educational no limit should apply.

Most divisions held courses this year and there were 17 that were run by the University Continuing Education Department, a decrease of 2 from last year. The list of the courses is in the following Table. Of note is General Surgery that held its 44th annual update. The Aesthetic Plastic Surgery Course has been given for 35 years. The Thoracic Surgery course was given for the 31st year. The Vascular course has been given for 23 years and the Upper Extremity course for 20 years. The Urology Update was 12 years old and continued to be one of the largest urology CE event in Canada. Last 103 Spanish urologists attended the course.

Table: CE events

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Enrollment</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surgical Oncology</td>
<td>121</td>
<td>6</td>
</tr>
<tr>
<td>Inherited Colorectal Cancer</td>
<td>107</td>
<td>13.5</td>
</tr>
<tr>
<td>Surgical Spine Techniques</td>
<td>n/a</td>
<td>8.5</td>
</tr>
<tr>
<td>Intraoperative Monitoring in Neurosurgery</td>
<td></td>
<td>37</td>
</tr>
<tr>
<td>Kennedy Visiting Professor</td>
<td>26</td>
<td>10.5</td>
</tr>
<tr>
<td>Urology Update 2004</td>
<td>346</td>
<td>14.5</td>
</tr>
<tr>
<td>Breast Surgery Symposium</td>
<td>117</td>
<td>7</td>
</tr>
<tr>
<td>Upper Extremity Update</td>
<td>182</td>
<td>6.5</td>
</tr>
<tr>
<td>Update in General Surgery 2005</td>
<td>433</td>
<td>17.5</td>
</tr>
<tr>
<td>Update in General Surgery (Mexico Site)</td>
<td>60</td>
<td>14</td>
</tr>
<tr>
<td>Thoracic Surgery 2005</td>
<td>94</td>
<td>14.5</td>
</tr>
<tr>
<td>Vascular Imagin Toronto 2005</td>
<td>52</td>
<td>7.5</td>
</tr>
<tr>
<td>Vascular Self-Evaluation Program</td>
<td>n/a</td>
<td>20</td>
</tr>
<tr>
<td>Vascular Self-Evaluation Program</td>
<td>n/a</td>
<td>60</td>
</tr>
<tr>
<td>Aesthetic Plastic Surgery</td>
<td>158</td>
<td>12.5</td>
</tr>
<tr>
<td>International Surgery</td>
<td>n/a</td>
<td>10.5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1468</strong></td>
<td><strong>240.5</strong></td>
</tr>
</tbody>
</table>

There were more than 1450 participants, a decrease of 350 from last year. There was a total of 240 hours of courses given, an increase of 5 hours over last year.

The department continues to be a large provider of CPD courses due to the skill and motivation of its members. This should increase as CPD assumes greater importance in society. Furthermore, excellence in CE has a positive impact on an individual’s annual performance review and in academic promotion.
This in my first report as Surgeon-In-Chief, having begun my term on January 1, 2005. I would like to thank the surgeons, other chiefs and the administration at Hospital for Sick Children for assisting my transition.

Several important events are ongoing at the Hospital. The Hospital is consulting internally and externally to develop strategic direction for the next 2 to 5 years. The Ontario Child Health Network and Sick Kids are leading a province-wide initiative, to address surgical waiting times for children. Finally, the Hospital is preparing for renegotiation of the AFP, which for the Department of Surgery, is entering its 12th year. Other events include a team lead by Dr. Jack Langer, separating conjoined twins. Dr. Paul Wales has developed a multidisciplinary Gastrointestinal Failure Team (GIFT). Dr. Peter Kim developed a Maternal Fetal Health Care Network for the province of Ontario.

New Staff
Dr. Sevan Hopyan joined the Division of Orthopaedics in January 2005. Sevan returns from a fellowship at the Royal Children’s Hospital Melbourne, Australia with a clinical interest in surgical oncology and an appointment in Developmental Biology, in the Research Institute.

Dr. Michael Taylor joined the Division of Neurosurgery in July 2004. Michael returns from a fellowship at St. Jude’s Research Hospital in Tennessee, with a clinical interest in brain tumors and an appointment in Developmental Biology in the Research Institute.

Appointments & Promotions
Dr. William Cole stepped down as Division Head of Orthopaedics after 12 years of building a world-class division of research and clinical excellence.

In addition to his appointment as the new Head of the Division of Orthopaedics, Dr. Benjamin Alman was re-appointed as a Canadian Research Chair, and also appointed as Vice Chair for Research, Department of Surgery, University of Toronto.

Dr. Douglas Hedden, in addition to his role as Program Director, Orthopaedic Surgery, University of Toronto, was appointed Chair of the Specialty Committee for Orthopaedics for the Royal College of Physicians and Surgeons of Canada.

Dr. Peter Dirks was promoted to Associate Professor, received the George Armstrong Peters Award from the University of Toronto and was awarded the Royal College Medal of Surgery.

After an exemplary review by Dr. John Brock, Surgeon-in-Chief, Vanderbilt Children’s Hospital, Dr. Antoine Khoury was re-appointed to a third 5-year term as Head of the Division of Urology.

Education
The Hospital continues an active educational program training 88 fellows and 140 residents, originating from 27 countries world-wide.

Research
The Hospital is a vibrant centre of research spanning all scientific fields and venues from the wet labs at Sick Kids, to the dangerous roadways of Uganda. Of the 32 surgeons, 12 in the Department have CIHR grants.
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


Caldarone C: Conventional and sutureless techniques for management of the pulmonary veins: Evolution of indications from post-repair pulmonary vein stenosis to primary pulmonary vein anomalies. Journal of Thoracic and Cardiovascular Surgery: September 2004:


Invited Visits to Other Hospitals/Universities

Caldarone C: Congenital Heart Surgeon’s Society and the European Congenital Heart Surgeons Association, Montreal, Quebec, October 2004. Aortic valve repair with cusp augmentation.

Caldarone C: Contemporary Questions in Congenital Heart Disease, Toronto, Ontario, May 2005. Hybrid procedures: should we be building combined OR/catheter laboratories?


Van Arsdell GS: Contemporary Questions in Congenital Heart Disease, Toronto, Ontario, May 2005. 1) Hypoplastic left heart syndrome: how can we further improve outcomes? 2) Open Forum: You ask the questions; challenge the panel with interesting cases.

Williams WG: Contemporary Questions in Congenital Heart Disease, Toronto, Ontario, May 2005. 1)”Who is the best surgeon for my child, doctor?” Should individual surgeon’s results be available to parents? 2) When should we perform a myomectomy in children with HOCM?


Wittnich C: American Association of Wildlife Veterinarians/ Wildlife Disease Association, San Diego, California, August 2004. Mercury continues to be a threat to the conservation of marine mammals.
Research and Investigations
Senior Investigator’s Name Appears in Italics


Integrin-linked kinase (ILK) improves cardiomyocyte survival. Coles JG, Hannigan G: Canadian Institute of Health Research (CIHR) ($93,065 2002 - 2005).


Honours Received


Wittnich C: Distinguished Alumni Award, Ontario Veterinary College, University of Guelph, June 2005.

Wittnich C: Sustained Contribution to Excellence in Graduate Teaching; Graduate & Inter-Faculty Affairs Awards; Faculty of Medicine, May 2005.
DIVISION OF GENERAL SURGERY

Dr. S.H. Ein - Associate Professor
Dr. A.H. Fecteau - Assistant Professor
Dr. J.T. Gerstle - Assistant Professor
Dr. P.C.W. Kim - Associate Professor
Dr. J.C. Langer - Professor (Division Head)
Dr. P. Wales - Assistant Professor

Publications


Fecteau A: Ethical issues in pediatric minimal access surgery. Pediatric Minimal Access Surgery (Langer J, Craig T, eds, eds). Marcel Dekker, Inc.;: 2005:


Langer JC, Albanese CT: Pediatric Minimal Access Surgery (Langer JC, Albanese CT, eds). Taylor and Francis, Boca Raton: 2005:


Invited Visits to Other Hospitals/Universities


Langer JC: Franklin J. Harberg Memorial Lectureship, Texas Children’s Hospital and Baylor College of Medicine, Houston, Texas, March 2005. Advances in the management of Hirschsprung’s disease.


Langer JC: Texas Children’s Hospital and Baylor College of Medicine, Houston, Texas, March 2005. The role of the surgeon in the management of inflammatory bowel disease.


Research and Investigations

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


A qualitative study comparing health care providers’, patients’, and family perceptions, attitudes and beliefs about the risk of living liver donation. Fecteau A, Grant D, Wright L: *Physicians Services Incorporated Foundation* ($64,000 2004 - 2006).


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).


Honours Received

Langer JC: Franklin J. Harberg Memorial Lectureship, Baylor University, February 2005.

Langer JC: Pediatric Surgery Resident Teaching Award, June 2005.


**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. Taylor - Assistant Professor

**Publications**


Invited Visits to Other Hospitals/Universities


Dirks PB: Alberta Heritage Foundation for Medical Research Visiting Lecturer, University of Calgary, Calgary, Alberta, Jun 7, 2005. Identification of Human Brain Tumor Initiating Cells.


Dirks PB: Seventh Annual Comprehensive Cancer Center Scientific Meeting, Advances in Neuro-Oncology, Ohio State University, Columbus, Ohio, March, 2005. Cancer Stem Cells: The Roots of Brain Tumour Growth.


Drake JM: World Federation of Neurological Surgeons, Marrakech, Morocco, June 2005. 1) Spinal lipoma and tethered cord syndrome. 2) Intracranial ependymomas in childhood: Outcome, prognosis factors. 3) Hydrocephalus; Chairman of Meetings: 1) Neuroendoscopy: Innovations and controversies.


Rutka JT: Brazilian Congress of Neurological Surgery, Goiania, Brazil, September 2004. 1) Combined use of fMR, cortical mapping, stereotaxy and frameless stereotaxy for resection of lesions in eloquent brain areas of a child. 2) Round Table discussion: Hydrocephalus in childhood. 3) Sellar and Suprasellar Tumors in Childhood and adolescence. 4) Pineal Tumors. 5) Rationalization for early indication of epilepsy surgery in childhood. 6) Treatment of nervous system tumors in childhood: What does the future hold in store for us.


Rutka JT: Brain Tumor Seminar Royal Children’s Hospital in Melbourne, Melbourne, Australia, September 2004. A) Disturbances in developmental signalling pathways predispose to medulloblastoma.


Research and Investigations

Senior Investigator’s Name Appears in Italics


Canadian Centre for Applied Cancer genetics. Malkin D, Rutka JT: Canada Foundation for Inovation ($2,175,000 2001 - 2005).


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


Dirks PB: 2005 Royal College Medal Award in Surgery (Royal College of Physicians and Surgeons of Canada), January 2005

Dirks PB: George Armstrong Peters Prize (Outstanding Academic Productivity in Research), May 2005.

**DIVISION OF ORTHOPAEDIC SURGERY**

Dr. B.A. Alman - Professor (Division Head)  
Dr. W.G. Cole - Professor  
Dr. D.M. Hedden - Associate 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  

**Publications**


Jakkula E, Makite O, Czarny-Rataczack M, Jackson GC, Damignani R, Susic M, Briggs MD, Cole WG, Al-Kokko L: Mutations in the known genes are not the major cause of MED; distinctive phenotypic entities among patients with no identified mutations. European Journal of Human Genetics: November 2004:


Invited Visits to Other Hospitals/Universities


Hedden DM: Alpha Group, Annual Meeting, Cancun, Mexico, January 2005. 1) How do we turn resident into the people we want to work with? 2) Thoracic insufficiency: Should we be doing the Campbell procedure?
Howard A: Makerere University Orthopaedic Residency Program, Kampala, Uganda, August 2004. Fracture Management (Visiting Professor Rounds).


Research And Investigations

Senior Investigator’s Name Appears in Italics


Development and validation of a pediatric comorbidity index using administrative data. 

Tai D, Wright JG, Dick P, To T: *Ontario Graduate Scholarship (OGS)* ($10,000 2004 - 2005).

Development and validation of a pediatric comorbidity index using administrative data. 

Tai D, Wright JG, Dick P, To T: *Restracomp; The Hospital for Sick Children* ($14,000 2003 - 2005).

Development and Validation of the Caregiver Priorities & Child Health Index of Life with Disabilities (CP CHILD), a health related quality of life measure for children with severe developmental disabilities. Narayanan UG, Fehlings D: *Paediatric Orthopaedic Society of North America (POSNA)* research grant award ($40,000 2004 - 2006).


>From Knowledge Generation to Knowledge Translation:  A Systems Approach to Reducing the Burden of Injury in Canada. 


Gene Expression of Collagen and Chondroitin Sulphate with CPM. 


Identification of genes responsible for human bone disease through mouse mutagenesis. 


Interdisciplinary Health Research Team in Musculoskeletal Neoplasia : Developmental Pathways in Musculoskeletal Neoplasia. 


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).

Investigating physician bias as a possible explanation for gender disparity in the utilization of knee arthroplasty surgery. 


Molecular mechanism of dupuytren’s contracture. 


Molecular mechanisms in wound healing. 


Molecular Pathology of Cartilage Neoplasia. 

Wunder JS, Alman BA: *Candian Institute for Health Research ( CIHR)* ($560,000 2003 - 2008).

Molecular pathology of Ehlers-Danlos syndrome and chondrodysplasias. 

Cole WG: *Canadian Institutes of Health Research* ($1,319,583 1999 - 2004).

Randomized Control Trial of casting vs Air-Stirrup ankle brace in children with acute low-risk ankle fractures. 


School playground surfacing-a randomized prospective comparison of injury rates on sand versus wood chip surfaces. 

Howard AW, Macarthur, C; Macpherson, A; Willan, AR: *Canadian Institutes of Health Research* ($160,354 2004 - 2006).

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).

The chondrogenic potential of autogenous skeletal muscle grafts in a full-thickness defect in the knee joint surface under the influence of continuous passive motion (CPM): An experimental investigation in the rabbit. 


**Honours Received**

**Salter RB:** 2005 Award from the Paediatric Orthopaedic Society of North America “In Recognition of many Contributions to the Diagnosis and Treatment of Children with Developmental Dysplasia of the Hip”, May 2005.

**Salter RB:** The 2004 Scientific Citizen of the Year Award, December 2004.

**Salter RB:** The Ivey Award of the Canadian Medical Hall of Fame, September 2004.


**Wright JG:** The Canadian Institutes of Health Research Institute of Musculoskeletal Health and Arthritis Quality of Life Research Award, February 2005.
DIVISION OF PLASTIC SURGERY

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

Publications


**Invited Visits to Other Hospitals/Universities**

**Clarke HM**: Exploring Shoulder Dystocia and Brachial Plexus Injury: Multidisciplinary Perspectives, Johns Hopkins University, Baltimore, Maryland, May 2005. (1) The connection between shoulder dystocia and obstetric brachial plexus palsy: How strong is it? (2) Establishing standards: Objectively defining the severity of shoulder dystocia and brachial plexus injury (Panel).


**Fisher DM**: 21st Annual Symposium of the South Carolina Center for Cleft Palate and Craniofacial Disorders, Columbia, South Carolina, USA, April 2005. 1) Cleft lip nasal deformity. 2) Unilateral cleft lip repair - an anatomic subunit approximation technique.

**Fisher DM**: Operation Smile, Wuhan, China, November 2004. Member of a team of volunteer plastic surgeons.


**Pang CY**: Chinese University of Hong Kong - Division of Plastic Surgery - Research Seminar, Hong Kong, October 2004. Muscle ischemia and reperfusion injury in reconstructive surgery: Current trend in research towards prevention.


**Zuker RM**: Invited Speaker: Israeli Microsurgery Society Meeting, Tel Aviv, Israel, April 2005. 1) New frontiers in pediatric microsurgery. 2) Problems encountered in microsurgery.


**Zuker RM**: Visiting Professor: Ichilov Medical Center, Tel Aviv, Israel, April 2005. 1) Pediatric microsurgery. 2) Facial paralysis in children with implications for adults.

Research And Investigations

Senior Investigator’s Name Appears in Italics


Honours Received

**Clarke HM:** Supervisor for Dr. A. Schwentker - Outstanding nerve presentations, American Society for Peripheral Nerve, Fajardo, Puerto Rico, January 2005.

**Forrest CR:** Supervisor: For Dr. Artur M. Gevorgyan - Bernd Spiessel Award 2004: Radiation-induced craniofacial bone growth retardations: Relationship between p53 expression, apoptosis and cell cycle arrest following radiation and cytoprotection in vitro, August 2004.
DIVISION OF UROLOGY
Dr. D.J. Bagli - Associate Professor
Dr. L.L. Burrows - Associate Professor
Dr. W. Farhat - Assistant Professor
Dr. A.E. Khoury - Professor (Division Head)
Dr. J. L. Pippi Salle - Associate Professor

Publications


Invited Visits to Other Hospitals/Universities


Farhat W: Wayne State University, Detroit, Michigan, January 2005. 1) Laparoscopy in Pediatric Urology. 2) Why Tissue Engineered Bladders are not yet Available for Clinical Use.

Pippi Salle J.L: Department of Urology/University of Lavalle, Quebec City, Quebec, September 2004. 1) Alternatives for Bladder Augmentation. 2) Intersex. 3) Management of Antenatal Hydronephrosis. 3) Performed demonstrative surgery on two Hypospadias Patients.

Pippi Salle JL: Urological Management of Myelomeningocele From Birth to Adulthood ICS 2004 Workshop, Paris, France, August 2004. 1) Case 1 With focus on urological management of the newborn and the first years of life. 2) Case Discussion (4) with focus on the surgical management of the outlet. 3) Severe Perineal Hypospadias. 4) Role of Vescicostomy in the Management of Child Neurogenic Bladder. 5) The Pippi Salle Procedure.


Pippi Salle JL: 8th Annual Course on Management of Hypospadias, Istanbul, Turkey, November 2004. 1) The Pippi Salle Procedure to Correct Urinary Incontinence; When and How to Perform it. 2) Video Course on Hypospadias Surgery which involved presenting 5 surgical cases. 3) Technical Details to Achieve Optimal Result in Hypospadias Repair. 4) Pre op Evaluation of patients with Hypospadias: Relevant Points.


Research and Investigations

Senior Investigator’s Name Appears in Italics


The role of Erk MAP kinase in bladder smooth muscle cell response to injury. Bagli DJ: CIHR ($250,000 2002 - 2005).

The Role of Hypoxia in Fibroproliferative bladder Disease. Bagli DJ: National Institutes of Health Research in coordination with NIH O’Brien Centre Grant in Urologic Research awarded to Children's Hospital in Boston (PI: Dr. Michael Freeman, PhD ($147,774 2004 - 2006).


Honours Received
Burrows LL: 2004 Elsie Winifred Crann Memorial Trust Award in Medical Research from the University of Toronto, November 2004.

The Department of Surgery at Mount Sinai Hospital consists of three major divisions those being General Surgery, Orthopaedic Surgery and Urology. Emphases within General Surgery are Colorectal Surgery including IBD and Oncology to include colorectal, breast sarcoma and retroperitoneal tumours and endocrine surgery including thyroid disease. Within Orthopaedics, Orthopaedic Oncology and Reconstructive Orthopaedics are the main foci. Within Urology the development of the Murray Koffler Urologic Wellness Centre has in addition to a nationally recognized program in Andrology, has now furthered developed clinical research and prevention and biomarkers related to prostate cancer.

General Surgery
The Division of General Surgery is composed of the following members: Drs. Zane Cohen, Alexandra Easson, Steve Gallinger, Michael Goldberg, Robert Gryfe, Irving Koven, Helen MacRae, Andrea McCart, Robin McLeod, Irving Rosen, Saul Sidlofsky and Carol Swallow. Other members of the division who do part of the work at Mount Sinai Hospital and whose major appointments are at the University Health Network are Drs. Jaime Escallon, Wey Leong, Ian McGilvray and David McCready. Dr. Steve Gallinger does the majority of his Hepatobiliary clinical work at the University Health Network but maintains his entire basic research laboratory at the Samuel Lunenfeld Research Institute.

Drs. Alexandra Easson, Steve Gallinger, Rob Gryfe, Helen MacRae, Andrea McCart, Robin McLeod and Carol Swallow continue to hold peer-reviewed grants from NCI, NCIC, CIHR, PSI, Crohn’s and the Colitis Foundation of America, Ontario Cancer Research Network and the American Society of Colon and Rectal Surgeons Grants. In addition, the following have received new grants in the past year - Andrea McCart from the University of Toronto-Faculty of Medicine, Paul Johnson and Robin McLeod from PSI, Steve Gallinger from Ontario Cancer Research Network and the Westgarten Foundation. Robert Gryfe is the recipient of the Charles Hollenberg Translational Research Senior Fellow/Clinician Scientist Award from Eli Lilly Cancer Care Ontario and CIHR.

The following positions were held by members of the division:
Dr. Irving Rosen is on the Medical Advisory Board of Survivors of Thyroid Cancer and is Co-Editor of Thyroid Cancer. Steve Gallinger is the Chairman of the Clinical Panel of the Israel Cancer Research Fund and is on the Editorial Board of Current Surgery Clinical Gastroenterology and Hepatology. He is also in the Executive Committee of NCIC Clinical Trials Group - Gastrointestinal Diseases. Helen MacRae is Chair of the Continuing Professional Development Committee of the Canadian Association of General Surgeons and Alexandra Easson is a member of the Palliative Care Group of the American College of Surgeons.

Robin McLeod is a regent of the American College of Surgeons and Andrea McCart was a co-organizer of the Southern Ontario Gene Therapy Meeting for 2004.

The following awards were received:
Dr. Irving Rosen - the Recipient of the Named Lectureship - the Rasch-Rosen Lectureship in Endocrine Surgery. Dr. Norman Thompson was the inaugural lecturer in May 2003. Irving Rosen gave the first Annual Walter Patching Lecture. Dr. Steven Gallinger received the Lister Prize from the Department of Surgery in 2003. Dr. Zane Cohen received the Mentor Award from the American Society of Colon and Rectal Surgeons and was the inaugural Chairholder of the Bernard and Ryna Langer endowed chair in the Division of General Surgery. Dr. Robin McLeod was made an honorary fellow of the Royal College of Surgeons of Edinborough and received the May Cohen Female Mentor of the Year Award from the Canadian Medical Association. Dr. Stephen Kelly whose supervisor was Robin McLeod, won the Best Poster Award at the Canadian Surgery Forum.
Orthopaedic Surgery
Honours and Distinctions
Dr. David Backstein was appointed as the Director of the Surgical Clerkship Program for the University of Toronto and he also received the John Insoll Travelling Fellowship. Dr. Bob Bell was appointed as Chair of the Clinical Council of Cancer Care Ontario and the Regional Vice President for Cancer Care Ontario. He was appointed as the Head of the Orthopaedic Oncology Section of the Journal of Surgical Oncology. Dr. Erin Boynton received a Samson Award in recognition of her research.

Research
New grants received were by Dr. David Backstein who received three grants from PSI, Dean’s Excellence Fund and Zimmer Canada. His grant totalled closed to $49,000. Drs. Bob Bell and Jay Wunder received the Canadian Institutes of Health Research Grant from 2001-2005. Dr. Erin Boynton received an Arthritis Society Grant and Dr. Peter Ferguson a Dean’s Fund New Staff Grant and is the Co-Project Leader for a Network of Centres of Excellence Funding of AFM Net (advanced food and materials network). Dr. Allan Gross received a CIHR grant as did Jay Wunder. Overall, there were over 34 peer-reviewed publications from the Division of Orthopaedics Surgery at Mount Sinai Hospital.

Courses Held
There were two courses held this academic year, one on Minimally Invasive Surgery on the Hip and the other on Revision Arthoplassty of the Hip.

Other Achievements
Bob Bell was the Visiting Lecturer on five occasions, Allan Gross on 12 occasions and Jay Wunder on three occasions. There were 18 international visiting observer clinicalships to the division.

Urology
Significant changes have occurred within the Division of Urology over the past year. All of the clinical activities are now housed in the Murray Koffler Urologic Wellness Centre at Mount Sinai Hospital. This is an 8,400 square foot facility which became operational in January of 2003. A further donation from the Koffler Family has allowed us to expand the basic science research capacity. A total of 8,500 square feet of laboratory space is planned for an area adjacent to the clinical facility. This space should be completed in the 2004-2005 academic year. The clinical programs include male infertility. This is a nationally recognized collaborative clinical program, with pathology and laboratory medicine, radiology and reproductive biology. Trainees have included Urology residents as well as clinical fellows, the first of whom was trained in the centre and returned to an academic urology position, at the University of Rochester.

The Murray Koffler Urologic Wellness Centre is a centre of excellence for the Management of Sexual Dysfunction. This program is directed by Dr. Martin Buckspan and involved collaboration with registered sex counsellors offering the potential for a complete investigation and management of this condition, in one centre.

Prostatitis is a new clinical program and a program in prostate cancer which is in evolution. The goal will be to develop expertise in the areas of screening for cancer in the prostate, reduction of the risk to develop prostate cancer and the strategies to reduce the progression of the disease. This program is in collaboration with the Divisions of Urology at the University Health Network, Sunnybrook and Women’s College Health Science Centre and Mount Sinai Hospital, as well as the Department of Pathology and Lab Medicine.

Research Activities
Most of the research activities are in the area of male infertility. There are four ongoing peer-funded studies on Genetics of Male Infertility. These are supported by grants from NIH, PSI and CIHR. A total of eight papers from the basic science research area and six further clinical research papers, have been either published or submitted to peer-reviewed journals in this past year.
DIVISION OF GENERAL SURGERY

Dr. Z. Cohen - Professor
Dr. A. Easson - Lecturer
Dr. M. 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. S. Sidlofsky - Assistant Professor
Dr. C.J. Swallow - Associate Professor

Publications


Rosen IB: Thyroid Microcarcinoma (editorial). Thyroid Canada: February 2005:


Invited Visits to Other Hospitals/Universities

**Easson AM**: American College of Surgeons (Symposium), Boston, MA, Apr 2004. Successful surgical palliation: How do we define it? How do we measure it?

**Easson AM**: American College of Surgeons (Symposium), New Orleans, LA, Oct 2004. Outcomes beyond survival in surgical care: What the patient doesn’t and what the surgeon should know.

**Easson AM**: University of Toronto, Mount Tremblant, Feb 2005. Update on palliative surgery: (Course) Advance learning in palliative medicine.


**Easson AM**: Department of Family and Community Medicine, University of Toronto (Symposium), Toronto, Ontario, May 2005. Standardized Colleagues: An innovative teaching tool to improve interprofessional relationships.

**Easson AM**: Centre for Faculty Development, University of Toronto (Symposium), Toronto, Ontario, Jun 2005. Creating an innovative scholarly educational project: Dean’s Excellence Fund Workshop.


**MacRae HM**: 1st International Meeting of the Colombian Society of Colon and Rectal Surgeons, Bogota, Colombia, November 2004. 1) Diverticular Disease State of the Art. 2) Laparoscopic Surgery for Inflammatory Bowel Disease. 3) Re: Operative Pelvic Pouch Surgery. 4) Teaching Laparoscopic Colon and Rectal Surgery. 5) Why Every Colon and Rectal Case Should Be Done Laparoscopically.


**MacRae HM**: Baystate Medical Centre, Springfield, Massachusetts, November 2004. Surgical Skills Training Strategies: What Works? Training Strategies at the University of Toronto.

**Rosen IB**: Co-meeting of Thyroid Foundation of Canada and Canadian Thyroid Cancer Support Group (Thry’vors) Inc., Ottawa, Ontario, May 2005. Wally Patching Lecture: “Thyroid Cancer Recurrence”.


**Swallow CJ**: Canadian Gastrointestinal Stromal Tumor Concensus Surgical Subcommittee Meeting, Toronto, Ontario, April 2005. 1) Current status of surgical management and neoadjuvant therapy. 2)Gastrointestinal Stromal Tumor. 3) Surgical Representative.


**Swallow CJ**: Society of Surgical Oncology Annual Cancer Symposium, Atlanta, Georgia, March 2005. 1) Squamous Dysplasia and CIS of the Perianal Region. 2) Surgical Management of Dysplasia - Chair.

**Swallow CJ**: Ontario Gastrointestinal Multidisciplinary Oncology Conference, Toronto, Ontario, November 2004. Surgical Oncology Debate “Be it resolved that there is no role for curative surgery in the recurrence of rectal cancer.” Opposed.


A program of inter-disciplinary and population-based studies of the determinants and impact of colorectal cancer-A genetic-epidemiological approach. McLaughlin J, Gallinger S, Bapat B, Cotterchio M and 15 others: Canadian Institutes of Health Research ($1,069,000 2001 - 2006).


Assessment of the relief of symptoms after the drainage of ascites: an evaluation of four questionnaires. Easson, AM, Bezjak A, Ross R: Dean’s Fund New Staff Award ($10,000 2003 - 2004).

Characterizing mutator phenotype pathways in human colorectal cancer. RGryfe: Canadian Institutes of Health Research, Cancer Care Ontario, Eli Lilly Canada ($225,000 2002 - 2005).

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 ($20,000 2003 - 2004).


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


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

Polo kinases in mitosis and cancer progression. Dennis J, Swallow C: National Cancer Institute of Canada ($411,000 2002 - 2005).


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


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).


Tumor microsatellite instability as a molecular prognostic marker in colorectal cancer. Gallinger, S: Premier’s Research Excellence Award ($100,000 2000 - 2005).

Honours Received

Easson AM: Associated Medical Services, Inc. (AMS) Educational Fellowship in Care at End of Life ($25,000.00 per year renewable to five years). 2004


Gallinger S: James IV Travelling Fellowship, Department of Surgery, December 2004.

McCart JA: The Saul Highman Memorial Award from the Leukemia and Lymphoma Society of Canada, June 2005.


Rosen IB: Editor, Thyroid Canada, January 2005.

Rosen IB: Rosen-Rasch Lectureship in Endocrine Surgery, Department of Surgery, University of Toronto, Mount Sinai Hospital (Dr. M. Gagner, guest lecturer), May 2005.
DIVISION OF ORTHOPAEDIC SURGERY
Dr. D. Backstein - Assistant Professor
Dr. R.S. Bell - Professor
Dr. E.L. Boynton - Assistant Professor
Dr. P.C. Ferguson - Assistant Professor
Dr. A.E. Gross - Professor
Dr. D.L. MacIntosh - Associate Professor
Dr. E. Silverstein - Assistant Professor
Dr. J.S. Wunder - Associate Professor (Division Head)

Publications


Invited Visits to Other Hospitals/Universities

Backstein D: Cleveland Clinic, Cleveland, Ohio, April 2005. Alignment Issues Around Osteoarticular Lesions of the Knee.


Backstein D: Professor Rudolf Schabus Update in Sports Medicine, St. Anton, Austria, December 2004. Update on Unicompartmental Arthroplasty.

Backstein D: Surgical Advances in Total Hip and Knee, Gravenhurst, Ontario, September 2004. 1) Avoiding Infection in Total Hip Replacement. 2) Femoral Notching - When to Stem the Femur. 3) Soft Tissue Balancing for Primary Total Knee Replacement. 4) The Role of Large Femoral Heads in Primary THA.


Bell RS: Cancer Care Ontario, King City, Ontario, November 2004. Cancer Care Ontario’s Role in Bridging the Know-Do Gap.


Ferguson PC: Canadian Orthopaedic Association, Montreal, Quebec, June 2005. Instructional Course Lecture - Recent Advances in Bone Sarcomas.


Gross AE: Israeli Orthopaedic Association, Tel Aviv, Israel, November 2004. (1) Fresh osteochondral allografts for posttraumatic knee defects. (2) Revision arthroplasty of the hip femoral and acetabular sides.


Gross AE: The Mexican Hip Society 5th International Meeting in hip Surgery, Guadalajara, Mexico, February 2005. (1)Total hip replacement for dysplasia (2) Revision arthroplasty of the acetabulum: Classification & Treatment Guide. (3) Revision arthroplasty of the femur: Classification & Treatment (4) The use of structural allografts for revision arthroplasty of the femur.


Research and Investigations


Hedgehog signaling in cartilaginous neoplasia: Implications for treatment. Wunder JS, Alman BA: Canadian Institutes of Health Research - CIHR x 5 years ($159,332 2003 - 2008).


Honours Received

Backstein D: Bruce Tovee Award for Undergraduate Education, May 2005.

Wunder JS: Young Investigator Award from the Connective Tissue Oncology Society (CTOS) 2004, October 2004.
DIVISION OF PLASTIC SURGERY

Dr. N.H. McKee - Professor

Publications


DIVISION OF UROLOGY

Dr. K. Jarvi - Associate Professor (Division Head)
Dr. K. C. Lo - Lecturer

Publications


Invited Visits to Other Hospitals/Universities


Research and Investigations

Senior Investigator’s Name Appears in Italics


Honours Received

Lo K: Canadian Urologic Association Scholarship Foundation Award, July 2004.
The past year has been both challenging and exciting for the Department of Surgery at St. Joseph’s Health Centre. In September of 2004, we opened a new operating room that provided much needed O.R. time, for surgeons struggling with excessive waiting lists. We then opened part of a second room in January 2005. Unfortunately, we were not able to completely open the second operating room because of anaesthesia shortages. The hospital set aside funding for two additional minimally invasive surgical suites, which will bring our total up to four, reinforcing our commitment to developing minimally invasive surgery. Hopefully, construction of the new minimally invasive suites will occur in the fall of 2005.

The Department has been struggling with the potential loss of vascular surgery from our institution. The Division of Vascular Surgery has been an important part of our department and key to our General Surgery Training Program for many years. At this point, it is still unclear what is going to happen with this division. Dr. George Oreopoulos joined the division in September 2004, replacing Dr. Dave Szalay who departed and took a position at McMaster University.

In the Division of Thoracic Surgery, Dr. Chris Compeau took over as head in January 2005. Dr. Ernie Spratt gave up active surgical practice in June 2005. He will continue to run a clinic and assist the other thoracic surgeons.

St. Joseph’s Health Centre, like many institutions, has received extra funding for Ministry of Health priority programs. Specifically, we received extra funding for orthopaedic joint replacements and surgical oncology.

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 of our surgical subspecialties and we will continue to try to develop our teaching program further.

Looking to the future, we plan to continue to provide excellence in teaching and clinical surgery.
**General Surgery**
Dr. M. Baida - Assistant Professor
Dr. T. Harmantas - Assistant Professor (Division Head)
Dr. R. Hart - Lecturer
Dr. D. Lindsay - Lecturer
Dr. L. C. Smith - Assistant Professor

**Orthopaedic Surgery**
Dr. A. ElMaraghy - Lecturer
Dr. M. Kliman - Lecturer
Dr. M. Roscoe - Lecturer (Division Head)
Dr. G. Vincent - Lecturer
Dr. M. Wood - Lecturer

**Plastic Surgery**
Dr. C. Fielding - Lecturer
Dr. L. Kasrai - Assistant Professor
Dr. R. Knowlton - Lecturer
Dr. R. Levine - Associate Professor (Division Head)

**Thoracic Surgery**
Dr. C. Compeau - Lecturer (Division Head)
Dr. E. Spratt - Associate Professor
Dr. Y. Shargall - Assistant Professor

**Publications**


**Urology**
Dr. A. Marcuzzi - Lecturer
Dr. U. Jain
Dr. A. McLean (Interim Division Head)
Dr. J. H. Wait - Lecturer

**Vascular Surgery**
Dr. G. Oreopoulos
Dr. D. Wooster - Associate Professor (Division Head)
Division Heads

Dr. L.E. Errett - Cardiac Surgery
Dr. O.D. Rotstein - General Surgery
Dr. W.S. Tucker - Neurosurgery (Acting Division Head)
Dr. E.H. Schemitsch - Orthopaedic Surgery
Dr. J.L. Mahoney - Plastic Surgery
Dr. R.J.D. Honey - Urology
Dr. F.M. Ameli - Vascular Surgery

This has been an exciting year for the Department of Surgery at St. Michael’s Hospital. The Hospital Strategic Plan completed in 2004 clearly places Surgery as one of the areas of growth and expansion in the Institution. Emphasis on the growth of Trauma/Critical Care as a priority and the articulation of oncology as a hospital theme have promoted considerable changes within the Department. Most evident among these is strategic recruitment to support these areas. Drs. Howard Ginsberg and Henry Ahn have rejuvenated our spinal surgery program, while the addition of Drs. John Marshall and Andras Kapus have strengthened both the clinical and research efforts in Critical Care/Trauma at the institution. Dr. Daniel Whelan joins the Faculty to add his expertise in trauma reconstruction as well as sports medicine. Dr. Melinda Musgrave will provide expert surgical care in the realm of reconstruction following major trauma as well as cancer surgery. We will sadly miss three of our Faculty who departed the University of Toronto to move to other institutions. Drs. Rick Moulton and Joseph Mamazza have gone to the University of Ottawa while Dr. Christopher Schlachta has relocated to the University of Western Ontario. All will be assuming leadership roles at these institutions, honours which reflects well on their prior experiences at St. Michael’s Hospital.

In the realm of Education and Research, we have experienced similar successes. St. Michael’s Hospital was cited as the most popular institution for clinical clerk training for students at the University of Toronto. Further, our Faculty has been recognized for excellence in teaching by receiving a number of education awards. Dr. David Latter was awarded the Tovee Award for Postgraduate Education and Dr. Jameel Ali received the prestigious W. T. Aikins Award in the category of Course/Program development. Dr. John Marshall assumed the position of Head of the Canadian Critical Care Trials Group, an internationally renowned research network in critical care. Finally, Drs. John Bohnen and Michael Cusimano were promoted to the rank of Full Professor at the University of Toronto.

As we move into the next academic year, opportunities for recruitment and development in our Department abound. Our Department looks forward to these opportunities with the utmost enthusiasm.
**DIVISION OF CARDIAC SURGERY**

Dr. D. Bonneau - Associate Professor  
Dr. L.E. Errett - Associate Professor (Division Head)  
Dr. M. Keith - Lecturer  
Dr. D.A. Latter - Associate Professor  
Dr. Y. LeClerc - Associate Professor

**Publications**


**Invited Visits to Other Hospitals/Universities**


Errett LE: Bayer Health Care, Pharmaceuticals Division, Le Meridien King Edward Hotel, Toronto, October 2004. What is the cost of post-op cardiac surgical bleeding?


**Research and Investigations**

Senior Investigator’s Name Appears in Italics


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


DIVISION OF GENERAL SURGERY

Dr. N. Ahmed - Assistant Professor
Dr. J. Ali - Professor
Dr. J.M.A. Bohnen - Associate Professor
Dr. M.J. Burnstein - Associate Professor (Interim Division Head)
Dr. J. Koo - Associate Professor
Dr. J. Mamazza - Assistant Professor
Dr. J.C. Marshall - Professor
Dr. R. Mustard - Assistant Professor
Dr. O.D. Rotstein - Professor

Publications


Burnstein MJ: Challenges in the treatment of postoperative ileus (Editorial). Presentations in Focus: October 2004:


Marshall JC: An antibiotic regimen for 8 days was as effective as one for 15 days in ventilator-associated pneumonia. ACP Journal Club: September 2004: 141: pp 30.


Invited Visits to Other Hospitals/Universities


Marshall JC: 9th Toronto Critical Care Medicine Symposium, Toronto, Ontario, October 2004.  1. Prevention and management of infection in necrotizing pancreatitis.  2. The AATICC trial.  3. Do we have effective therapies for sepsis?


Marshall JC: Grand Rounds, Department of Critical Care Medicine, Rush University Medical Center, Chicago, Illinois, November 2004. Lipopolysaccharide in critical illness: Endotoxin or exohormone?

Marshall JC: 3rd ISF Cambridge Colloquium on Identifying Responsive Populations in Sepsis, Cambridge, United Kingdom, July 2004. Lipopolysaccharide: Endotoxin or exohormone?

Marshall JC: Shiga University, Kyoto, Japan, December 2004. Lipopolysaccharide: Endotoxin or exohormone?


Rotstein O: Merck Sharp & Dohme (Singapore Branch), Singapore, Malaysia, September 2004. Surgeon’s Talk “Simplified Management of Intra-Abdominal Infection - A Surgeon’s Perspective”.
Research and Investigations
Senior Investigator’s Name Appears in Italics


Honours Received
DIVISION OF NEUROSURGERY
Dr. M.D. Cusimano - Associate Professor
Dr. H. Ginsberg - Assistant Professor
Dr. P.J. Muller - Professor
Dr. R.G. Perrin - Associate Professor
Dr. H.S. Smyth - Assistant Professor
Dr. W.S. Tucker - Associate Professor (Acting Division Head)

Publications


Robb A, Cusimano MD, Orckereely M, Etchells E: A Randomized Trial of Teaching Informed Decision Making to Surgical Residents. American Journal of Surgery: April 2005:


Invited Visits to Other Hospitals/Universities


Cusimano MD: Ryerson Universify, Centre for the Study of Commercial Activity, Toronto, Ontario, November 2004. Invited Address--GEOIDE Strategic Initiative workshop for increased Social Science Research.


Cusimano MD: American Association of Neurological Surgeons, New Orleans, Louisiana, April 2005. Panelist for “121 Contemporary surgical Approaches and complications to the lateral skull base”.


Muller PJ: 10th World Congress of the International Photodynamic Association, Munich, Germany, June 2005. Photodynamic therapy of brain tumours - the state of the art.


Research and Investigations
Senior Investigator’s Name Appears in Italics

“A clinical trial for the optimization and evaluation of ala fluorescene detection of malignant supratentorial gliomas”. Muller P, Lothar Lilge(Department of Medical Genetics and Microbiology) Brian Wilson(Department of Medical Genetics and Microbiology): Canadian Institutes of Health Research ($68,563 2003 - 2005).


A Multi Centre Observational Study to Evaluate the Incidence and Magnitude of Hemorrhagic Progression of Cerebral Contusions and the Identification of Important Safety Issues following Traumatic Brain Injury. Site Principal Investigator, Cusimano MD; Tucker W; Ginsberg, H; Muller P; Perrin R; Baker A; Gray B; Muradali D: Multi Centre Trial: Novonordisk ($30,000 2004 - 2005).

An internet-based intervention for depression in mild traumatic brain injury patients: a pilot study. Andrews, M, Topolovec-Vranic, J; Bhalerao, S; Cullen, N; Cusimano, MD; Masanic, C; McCutcheon, A; Michalak, A; Ouchterlony, D: Ontario Neurotrauma Foundation ($96,000 2005 - 2007).


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 Institute of Health Research ($74,844 2004 - 2007).

Honours Received
DIVISION OF ORTHOPAEDIC SURGERY
Dr. E.R. Bogoch - Professor
Dr. T.R. Daniels - Associate Professor
Dr. M.D. McKee - Associate Professor
Dr. E.H. Schemitsch - Professor - (Division Head)
Dr. J.P. Waddell - Professor

Publications


Daniels TR, Thomas R, Bell T: Functional outcome of the foot and ankle following free flap fibular graft. Foot & Ankle International: December 2004:


Schemitsch EH, Bhandari M (ed): Randomized trails in orthopaedics. In: Techniques in Orthopaedics ((Lippincott Williams and Wilkins), ed). Hagerstown, Maryland: 2004:


Invited Visits to Other Hospitals/Universities

Bogoch ER: Atlantic Provinces Orthopaedic Association, St John’s NFLD, September 2004. 1) Arthroplasty outcomes in adult JIA patients. 2) Outcome measures: One size fits all? 3) Osteoporosis in fragility fractures: Looking after our patients.


Bogoch ER: The London Hip Fractue Interest Group (HFIG), London Ontario, October 2004. Orthopaedic issues relevant to hip fracture care: The procedures, the patients, the system.

Daniels TR: Memorial University, St. John’s, NF and Labrador, November 2004. 1) Ankle arthroplasty; 2) Ankle arthrodesis; and 3) Video on ankle fusion.

Daniels TR: Canadian orthopaedic foot and ankle society (COFAS) - Sheraton Wall Centre Hotel, Vancouver, British Columbia, April 2005. 1) Forefoot pain in a patient with a bunion: a) Proximal osteotomy technique, b) Debate: Lapidus vs. proximal osteotomy; 2) Ankle arthritis: Biomechanics; 3) Flat foot: Moderator; 4) Cavus foot: Triple arthrodesis - Indication and technique.


**McKee MD:** Orthopaedic Trauma Association Annual Meeting, Ft. Lauderdale, Florida, October 2004. 1.) Upper extremity case presentations; 2). Distal humeral laboratory demonstrator; 3.) Distal radial laboratory demonstrator.

**McKee MD:** AO Course, Advanced and Basic, Toronto, Ontario, November 2004. 1.) Malunions. 2.) BMP’s and clinical outcomes. 3.) Scapular and clavicular fractures. 4.) Case presentations and audience questions.

**McKee MD:** Orlando Medical Center Grand Rounds, Orlando, Florida, March 2005. BMP’s in trauma.

**McKee MD:** WSIB Ontario, Toronto, Ontario, October 2004. Clavicular Fractures.


**McKee MD:** Hospital for Special Surgery Symposium, Washington, District of Columbia, February 2005. Difficult Fracture Healing Choices: BMP’s and fracture healing: Are they worth it?

**McKee MD:** OTA Residents Course, Ft. Lauderdale, Florida, October 2004. Humeral shaft fractures.

**McKee MD:** 4th Annual Panorama Colorado Orthopaedic Trauma Symposium, Denver, Colorado, February 2005. 1.) Keynote address: Clavicle fractures: Should we be more aggressive? 2.) TEA for Fracture: Short-term gain or long -term pain?


**McKee MD:** Annual Closed Meeting of the ASES, New York, New York, September 2004. Prognostic factors associated with humeral nonunion repair.

**McKee MD:** 4th Biennial ASES Meeting, Monterey, California, October 2004. Single incision distal biceps repair.


**McKee MD:** University of North Carolina, Raleigh, North Carolina, February 2005. Visiting Professor Grand Rounds - The use of BMP’s in Trauma.

**McKee MD:** Queen’s University, Kingston Ontario, April 2005. Visiting professor, Ersil Research Day, Queen’s University: The use of BMP’s in Trauma and Post-traumatic Reconstruction.

**Schemitsch EH:** Bone and Joint Decade. Young Investigators Initiative Workshop., Chicago, Illinois, May 2005. 1.) Human/animal use considerations. 2.) Budgets/justification.

**Schemitsch EH:** 19th Annual Vail Orthopaedic Symposium, Vail, Colorado, January 2005. 1.) Humerus fractures: non-operative management. 2.) Bioskills Lab - Distal Humeral Fractures. 3.) Both bone forearm fractures: Current concepts.

**Schemitsch EH:** AO/ASIF Course, Toronto, Ontario, November 2004. 1.) Lecture: Bone healing 2.) Lecture: Femoral neck fractures in the elderly patient: repair vs replacement. 3.) Moderator basic course 4.) Case discussions 5.) Moderator advanced course.

**Schemitsch EH:** Surgical Advances in Total Hip and Knee, Gravenhurst, Ontario, September 2004. 1.) Periprosthetic fractures after total knee arthroplasty 2.) Surface replacement total hip arthroplasty. What a great idea! 3.) The valgus total knee arthroplasty with navigation.

**Schemitsch EH:** Orthopaedic Trauma Association, Hollywood, Florida, October 2004. 1.) Scientific paper moderator 2.) Symposium, Evidence Based Medicine.

**Schemitsch EH:** International Society for Fracture Repair, Bologna, Italy, November 2004. 1.) Scientific Paper Moderator.

Schemitsch EH: Nonunions: Advances and Controversies, Baltimore, Maryland, August 2004. 1.) Biology of the Nonunion. 2.) The Role of Autograft, Allograft, and Bone Graft Substitutes. 3.) The Role of Bone Stimulators for Nonunion Treatment. 4.) The Role of BMP in the Treatment of Nonunions. 5.) Distal Tibial Nonunions 6.) Distal Femoral Nonunions. 7.)Proximal Femoral Nonunions: Internal Fixation.

Schemitsch EH: Visiting Professor, Division of Orthopaedic Surgery, University of Alberta., Edmonton, Alberta, September 2004. 1.) Current concepts in the treatment of open tibia fractures. 2.) Bone graft substitutes in orthopaedic trauma.


Schemitsch EH: Canadian Orthopaedic Association, Montreal, Quebec, June 2005. 1.) Session Moderator. 2.)Instructional course lecture. 3) Techniques to assess quality in the orthopaedic literature.


Research and Investigations

Senior Investigator's Name Appears in Italics

A randomized controlled trial of 1st MTP joint fusion compared to 1st MTP joint hemiarthroplasty in severe hallux valgus rigidus. Lau JTC, Daniels TR, Waddell JP, Mahomed N: PSI ($36,500 2004 - 2005).


Cell-based VEGF gene transfer to promote fracture healing. Schemitsch EH, Li R, VonSchroeder H, Stewart D: University of Toronto ($10,000 2005).


Development of Clinical Trials Infrastructure. Schemitsch EH: Orthopaedic Research and Education Fund ($150,000 2003 - 2006).


Outcome following experimental production of pulmonary fat embolism. Schemitsch EH: University of Toronto Research Committee ($12,500 2003 - 2004).


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).

Honours Received

Bogoch ER: COA Presidential Award of Merit for Outstanding Contributions to Orthopaedic Surgery, June 2005.

Daniels TR: $20,000.00 from Smith & Nephew Inc. for a 2005 COFAS Conference, January 2005.


McKee MD: R.I Harris Undergraduate Award - Best Article in U of T Undergraduate Medical Journal, September 2004.

McKee MD: Supervisor of Dr. Kurt Droll, Organon Sanofi-Synthelabo Resident Research Award, University of Toronto Kennedy Day, November 2004.

McKee MD: William Horsey Postgraduate Teaching Award - Best Surgical Teacher - St. Michael’s Hospital, June 2005.
DIVISION OF PLASTIC SURGERY
Dr. J.L. Mahoney – Associate Professor – (Division Head)
Dr. M. Musgrave – Assistant Professor

DIVISION OF UROLOGY
Dr. R.J.D. Honey - Associate Professor (Division Head)
Dr. KT Pace - Assistant Professor
Dr. R.J. Stewart - Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities
Pace KT: Annual meeting of the Acoustical Society of America, Vancouver, May 2005. Shock wave lithotripsy at 60 or 120 shocks per minute: a randomized, double-blinded trial.

Research and Investigations
Senior Investigator’s Name Appears in Italics

Impact of pneumoperitoneum on renal physiology: a rat model. Pace K, Honey RJD, Stewart RJ, Hare G, Blew B: University of Toronto Dean’s Fund New Faculty Award ($10,000 2004 - 2005).

DIVISION OF VASCULAR SURGERY
Dr. F.M. Ameli - Associate Professor (Division Head)
Dr. A.G. Lossing - Associate Professor

Invited Visits to Other Hospitals/Universities
Lossing AG: 26th Annual Canadian Society of Vascular Surgeons, Quebec City, Canada, October 2004. “Preservation of sexual function in males following open repair of abdominal aortic aneurysms.”.
The Hospital continued to operate at multiple sites with many Department members, particularly in the Divisions of General Surgery, Plastic Surgery, Orthopaedic Surgery and Urology, active at more than one of the Sunnybrook, Women College and Orthopaedic and Arthritic Campuses.

New Staff
Manuel Gomez was appointed to the Scientific Staff of the Division of Plastic Surgery as Assistant Professor. Manuel’s research interests are in the area of burn injury and prevention. Sharon Sharir was appointed as a Surgeon - Investigator in the Division of Urology. Sharon’s research interests will be in urologic oncology and she will develop minimally invasive surgical techniques within the Division. Stacey O’Brien was appointed to the Division of Cardiac Surgery. Stacey initiated his career at Dalhousie University, with a research interest in genomic risk factors for occlusion of coronary arterial grafts.

Homer Tien was appointed as a Clinical Associate in the Division of General Surgery. Homer is a Major in the Canadian Forces Medical Services and has received the Canadian Peacekeeping Medal and is enrolled in the MSc Program in Clinical Epidemiology. May Lynn Quan was appointed as a Clinical Associate in the Division of General Surgery. May Lynn has an interest in the assessment and treatment of breast cancer and is completing an MSc degree in Clinical Epidemiology at the University of Calgary.

Appointments and Promotions
Fred Brenneman was promoted to Associate Professor in the Division of General Surgery, recognizing his contribution as a leader and researcher in the field of Trauma care. Paul Marks was promoted to Associate Professor for his scholarly activity focused on the treatment of knee ligament injuries and cartilage breakdown. Andy Smith was promoted to Associate Professor in recognition of his scholarship in the field of knowledge translation and research in the field of colorectal surgery. David Stephen was promoted to Associate Professor in recognition of his contributions in the field of orthopaedic traumatology. Dr. Stephen completed his term as Chief Examiner of Orthopaedic Surgery for the Royal College of Physicians and Surgeons of Canada and was appointed as an AO Foundation Trustee.

Calvin Law, Robert Nam and Albert Yee had very successful three year reviews and were promoted to the Active staff category.

Educational Activity and Awards
All members fulfilled teaching roles with Departmental involvement at the pre-clerkship, clerkship, resident, fellowship and continuing education levels. Department members contributed in an abiding way to continuing education, by organizing and participating in Annual Updates in General Surgery, Urology, Breast Surgery, Cardiac Care, Trauma and Upper Extremity Reconstruction. Massey Beveridge chaired the Annual Bethune Round Table in the spring and multiple AO and ATLS Courses were chaired by Department members.

A.W. Harrison awards for excellence in teaching presented to resident physicians Sam Bederman and Mo Quadri (December 2004) and Allen Eckhaus and Adrian Laxton (June 2005). Andy Smith, Frances Wright and Calvin Law and colleagues presented a poster at the Faculty’s 3rd Annual Educational achievement event, for their work supported by the Dean’s Excellence Fund for Innovation in Medical Education.

Ron Kodama received a Peters-Boyd Academy PBL Tutoring Award and Robert Nam received the A.W. Bruce Undergraduate Teaching Award. Terry Axelrod was nominated for a C.R. Woolf Award.

Research Activity and Awards
Calvin Law received an Ontario Ministry of Health 2004 Career Scientist Award for five years. Andy Smith, Calvin Law and Frances Wright received funding to improve colo-rectal cancer staging and treatment through a multimodal knowledge translation program. Lavina Licketly and Claire Holloway continued their nationally-funded breast cancer research. Frances Wright received funding from the Canadian Breast Cancer Foundation for her study of the response to neo-adjuvant therapy in locally advanced breast cancer. Homer
Tien and Lorraine Tremblay received funding to study radiation exposure from diagnostic imaging in trauma patients.

Steve Fremes and colleagues’ study, comparing patency of saphenous vein versus radial artery graft was published in the New England Journal of Medicine. Steve was awarded the Lister Prize for his contributions to the Department at Gallie Day. Nimesh Desai (supervisor S. Fremes) received the Canadian Society of Cardiovascular Surgeon’s Paul Cartier Resident Research Award, for his project studying the influence of competitive flow on radial artery graft patency, at the Canadian Cardiovascular Congress in Calgary. Gideon Cohen received a grant from the Heart and Stroke Foundation of Canada, for his study of left ventricular mass regression following aortic valve replacement.

John Semple hosted the Advanced Regenerative Tissue Engineering Center’s first Symposium/Workshop in January, with four invited presenters. Karen Cross (supervisor Dr. J. Fish) presented her work on the determination of burn depth using near infrared spectroscopy at Gallie Day. John Semple and Joel Fish continued their work in advanced regenerative tissue engineering, a project supported by the Ontario Research Development Challenge Fund. The Burn Unit staff (M. Beveridge, R. Cartotto, J. Fish and M. Gomez) and their students presented ten papers and posters at the 37th Annual Meeting of the American Burn Association, winning awards and a scholarship.

Laurence Klotz and Robert Nam received multiple grants at a National level for their research in the field of prostate cancer. Laurence continued his work as Editor for the Canadian Journal of Urology and was elected as the Founding Chairman of the World Urologic Oncology Federation.

Cari Whyne, Albert Yee and Joel Finkelstein received CIHR funding to study the biomechanical implications of metastatic disease in the spine. Paul Marks received a grant from the Canadian Arthritis Research Network, to study risk factors that predict the progression of osteoarthritis after knee injury.

**Other Awards and Activities**

Hensley Miller (December 2004) and Steve Fremes (June 2005) received Marvin Tile awards for outstanding contributions to the Department. Massey Beveridge and Peter Chu remained active in International Surgery. Fred Brenneman, John Cameron and Sherif Hanna continued their leadership in the Trauma, Musculoskeletal and Surgical Oncology Programs respectively.

Hamilton Hall, Robin Richards and Marvin Tile, remained active on the Board of the Sunnybrook and Women’s Foundation, formed by the amalgamation of the Foundations of the legacy Institutions. Sender Herschorn served on the Decanal Promotion Committee and Robin Richards continued to Chair the Departmental Promotion Committee. Dr. Joe Schatzker was awarded the Mikulicz Medal by the Polish Surgical Society.

Joel Finkelstein will be begin a one-year sabbatical as a Visiting Professor at Hadassah Medical Centre in Jerusalem, Israel as of July 1st 2005. He was awarded the 2005 Walter C. MacKenzie Scotiabank Fellowship in Surgery ($21,000 to support Clinical and Research Fellowship at the Hadassah Hospital in Jerusalem)

Hensley Miller retired after more than thirty years of distinguished service in the Division of General Surgery. Lavina Lickley retired from active surgical practice and remained on staff in a non-surgical capacity.

**Conclusion**

At the conclusion of the year searches were underway for the Inaugural Marvin Tile Chair in Orthopaedic Surgery and the Head of the Division of Neurosurgery. The Institution remained engaged with Government, in discussions regarding capital redevelopment and the Foundation announced an ambitious ten-year fund-raising campaign. The members of the Department value the continued opportunity to play a major role in providing surgical service to patients in the Province requiring treatment for trauma, burns, cancer, cardiac, musculoskeletal and neural disorders and appreciate the opportunity to contribute academically to our University.
DIVISION OF CARDIAC SURGERY
Dr. G.T. Christakis - Professor
Dr. G. Cohen - Assistant Professor
Dr. S.E. Fremes - Professor (Division Head)
Dr. B.S. Goldman - Professor
Dr. S.B. O’Blenes - Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities


Goldman B: Canadian Cardiovascular Congress., Calgary, Alberta, October 2004. (1) Comprehensive Coronary Bypass Graft Assessment Using the Novadaq Spy TM Intraoperative Angiography System: Innovation Towards Perfect Graft Patency. (2) Platelet Transfusions are a Potential Cause of Mortality and Morbidity after Coronary Artery Bypass Grafting. (3) Initial Canadian Experiences with Open and Endoscopic Microwave Energy Ablation of Atrial Fibrillation using the AF’s Flex System. (4) Long-term Results of Aortic Valve Replacement with the St. Jude Toronto Stentless Porcine Valve. (5) Tissue Valves are the Preferred Aortic Prosthesis in Middle Ages Patients: A Decision analysis using Markov modelling.


Research and Investigations

Senior Investigator’s Name Appears in Italics

A Randomized Placebo Controlled Trial of Intravenous N-Acetylcyesteine (NAC) as a Renal Protective Agent for Prevention of Renal Dysfunction following Cardiopulmonary Bypass (CPB). Fremes SE, Guru V, Naimark D: PSI Foundation Resident Research Grant ($18,000 2003 - 2004).

Blood Conservation Using Antifibrinolytics: A Randomized Trial in High Risk Cardiac Surgery -- The BART Trial. Hebert, PC, Multi-Centre Study Participants (including Fremes, SE): Canadian Institutes for Health Research ($1,000,000 2002 - 2005).

Canadian Cardiovascular Outcomes Research Team. Tu, J, Fremes SE: CIHR - Interdisciplinary health research team ($5,000,000 2001 - 2005).


Multicentre Radial Artery Patency Study: 5 Year Results. Fremes, SE, Multi-Centre Radial Artery Study Participants: Canadian Institutes for Health Research ($1,000,000 2002 - 2006).


Honours Received

DIVISION OF GENERAL SURGERY

Dr. F.D. Brenneman - Assistant Professor
Dr. P.T. Chu - Assistant Professor
Dr. S.S. Hanna - Associate Professor
Dr. G.Y. Hiraki - Assistant Professor
Dr. C.M.B. Holloway - Assistant Professor
Dr. C.H.L. Law - Assistant Professor
Dr. L. Lickley - Professor
Dr. H.A.B. Miller - Associate Professor
Dr. S. Rizoli - Assistant Professor
Dr. T.M. Ross - Associate Professor
Dr. A. Smith - Assistant Professor (Division Head)
Dr. G.A. Taylor - Associate Professor
Dr. L. Tremblay - Assistant Professor
Dr. F. Wright - Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities


Brenneman FD: Grand Surgical Rounds, McGill University, Montreal, Quebec, December 2004. “Trauma Systems and Trauma Centres”.


Law CHL: Canadian Advisory Committee on Gastrointestinal Stromal Tumours (GIST), Surgery Subcommittee, Toronto, Ontario, April 2005. Difficult clinical dilemmas in the management of gastrointestinal stromal tumours (GIST).


Law CHL: Novartis, Toronto, Ontario, November 2004. GIST Educator Program.


Rizoli S: Canadian Association of General Surgery, Ottawa, Ontario, September 2004. Meet the Professor Breakfast Session, “Trauma review by case illustration”.


Smith AJ: 2005 Medical Education Conference, Saskatoon, Saskatchewan, April 2005. Identifying and engaging opinion leaders in palliative and end of life care.


Smith AJ: Medical Industry Association of New Zealand, Auckland, New Zealand, February 2005. Recurrent rectal cancer: can it be cured?
Research and Investigations

Senior Investigator’s Name Appears in Italics


Improving colon cancer staging through a blended knowledge translation program aimed at surgeons and pathologists. Smith AJ, Ryan DP. Wright FC, Law CHL: The Change Foundation ($100,000 2002 - 2004).


Operating Funds. Tremblay L: Sunnybrook and Women’s College Health Sciences Centre, Centre Research Institute ($70,000 2003 - 2005).


The Impact of Transfusions on the Outcomes of Colorectal Cancer in the Era of Leukoreduction. Law CHL (Senior Supervisor), Cheang T (Masters student): Ontario Graduate Scholarship **Declined for another award** ($10,000 2004 - 2006).

The role of angiogenesis in tumor cell invasion. Lickley HLA, Seth A, Hanna WM, Catzavelos C: Bennett Family Foundation ($250,000 2000 - 2005).


**Honours Received**

**Lickley L:** Allison Roach Award, October 2004.


**Rizoli S:** Elected to membership, American Association for the Surgery of Trauma, September 2004.

**Rizoli S:** Fellow, American College of Surgeons, October 2004.

DIVISION OF NEUROSURGERY
Dr. M. Fazl - Assistant Professor
Dr. D.A. Houlden - Assistant Professor
Dr. F. Pirouzmand - Assistant Professor
Dr. D.W. Rowed - Associate Professor
Dr. M.L. Schwartz - Professor (Division Head)

Publications


Invited Visits to Other Hospitals/Universities


Research and Investigations
Senior Investigator’s Name Appears in Italics


DIVISION OF ORTHOPAEDIC SURGERY
Dr. T.S. Axelrod - Associate Professor (Division Head)
Dr. H.U. Cameron - Associate Professor
Dr. J.C. Cameron - Assistant Professor
Dr. J.A. Finkelstein - Associate Professor
Dr. M.H. Ford - Assistant Professor
Dr. J.D. Gollish - Assistant Professor
Dr. H. Hall - Professor
Dr. R.M. Holthby - Assistant Professor
Dr. H.J. Kreder - Associate Professor
Dr. B.E. Maki - Professor
Dr. B.W. Malcolm - Assistant Professor
Dr. P.H. Marks - Assistant Professor
Dr. J.J. Murnaghan - Assistant Professor
Dr. R.R. Richards - Professor
Dr. J. Schatzker - Professor
Dr. D.G.S. Stephen - Assistant Professor
Dr. M. Tile - Professor
Dr. C. Whyne - Assistant Professor
Dr. C.S. Wright - Assistant Professor
Dr. A.J.M. Yee - Assistant Professor

Publications


Quant S, Maki BE, McIlroy WE: The association between later cortical potentials and later phases of postural reactions evoked by perturbations to upright stance. Neuroscience Letters: May 2005: 381: pp 269-274.

Richards R: Open repair for anterior shoulder instability. COA Bulletin: February 2005:


Invited Visits to Other Hospitals/Universities


Finkelstein JA: Bellinson Hospital, University of Tel Aviv Hospital, Tel Aviv, Israel, July 2004. Initial Evaluation and Treatment of Spinal Cord Injury.


Kreder HJ: Brown’s University, Providence, Rhode Island, November 2004. Evidence Based Surgery: What is it and do we need it?


Kreder HJ: Brown’s University, Department of Orthopaedic Surgery, Providence, Rhode Island, November 2004. Visiting Professor.


Marks PH: AOSSM, Atlanta, Georgia, January 2005. ACL Injury & Injury Prevention meeting.


Stephen DGS: Canadian Orthopaedic Association Annual General Meeting, Montreal, Canada, June 2005. Common trauma problems about the foot and ankle.


Stephen DGS: 10th Annual Orthopaedic Trauma Association Residents Basic Fracture Course, Fort Lauderdale, Ontario, October 2004. Lab Instructor - Spanning Ex-Fix Strategies.


Stephen DGS: AO ASIF Principles for fracture management basic course for residents, Sun Valley, Idaho, March 2005. 1.) Moderator: Session III - Basic Course. 2.) Results of calcaneal fractures. (Talk + Practice Exercise). 3.) Table Instructor - Advanced Course. 4.) The patient and the injury.

Stephen DGS: Synthes (USA), New Concepts Trauma Symposium, Toronto, Ontario, March 2005. 1.) New Treatment Options for Periprosthetic Fractures; 2.) Locking Compression Plates in Periprosthetic Fractures (included Introduction to Lab); 3.) Practical Session - Fixation of Periprosthetic Fractures: Total Knee Arthroplasty.


Whyne C: Percutaneous vertebroplasty in the metastatic spine. “Percutaneous vertebroplasty research group. TSRCC. Toronto, Ontario, November 2004.-

**Research and Investigations**

*Senior Investigator’s Name Appears in Italics*


Activities following total hip arthroplasty - which are safe? Weller I, Gollish JD, Kreder H, Schatzker J, Scafesi O, Payne N: University of Toronto - Zimmer Research Partnership Program ($12,500 - 2004)


Evaluation of a preclinical model of vertebral metastasis; an in vivo study of the VX2 rabbit carcinoma. *Whyne CM, Yee AJ (Co-Investigator): Zimmer Grant 2004 Competition (Internal; Division of Orthopaedic Surgery, University of Toronto)* ($10,000 2005 - 2006).


Laboratories 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, Boutliier C, Bradley D, Colangelo A, Cott C, Davis A, Maki BE, McIlroy WE, McKeever P, Naglie G: Canadian Foundation for Innovation (Research Hospital Fund)* ($17,631,726 2004 - 2008).


Prospective randomized clinical pilot study to evaluate the effects of the medial distal locking plate for high energy intra articular fractures of the distal tibia. *David J.G. Stephen, MD, H. Kreder, MD, E. Schemitsch, MD, M. McKee, MD, B. Bulmer, PT: American Orthopaedic Foot and Ankle Society (AOFAS)* ($10,000 2005 - 2006).


Risk factors & indicators that predict the progression of osteoarthritis after knee injury. *Marks PH, Hurtig M, White L, Weller I: CIHR - Net Grant (300,000 x 5 years) ($300,000 2004 - 2009).*


Tumor invasiveness and the role of versican in breast carcinoma metastasis to bone. *Yee AJ, Yang B (Co-I), Finkelstein JA (Co-I): Zimmer Grant 2004 Competition (Internal, Division of Orthopaedic Surgery, University of Toronto) ($10,000 2005 - 2006).*

**Honours Received**


Schatzker J: Adam Gruca Award for contributions to Orthopaedic Surgery and Trauma, The Polish Orthopaedic and Trauma Association, September 2004.

Whyne C: Canadian Breast Cancer Foundation Masters Fellowship ($25,000), Fellowship Recipient: Michael Hardisty, Fellowship Supervisor: 2005
**DIVISION OF PLASTIC SURGERY**

Dr. O. Antonyshyn - Associate Professor  
Dr. M. Beveridge - Assistant Professor  
Dr. P. Binhammer - Lecturer  
Dr. M.H. Brown - Assistant Professor  
Dr. R.C. Cartotto - Associate Professor  
Dr. J. Fialkov - Assistant Professor  
Dr. J.S. Fish - Associate Professor  
Dr. M. Gomez - Assistant Professor  
Dr. J.L. Semple - Associate Professor (Division Head)

**Publications**


Invited Visits to Other Hospitals/Universities


Beveridge M: International Medical School, Phnom Penh, Cambodia, November 2004. Burn Care in Cambodia.

Beveridge M: Association of Surgeons of Great Britain and Ireland, Oxford, United Kingdom, September 2004. Consensus meeting on overseas training.

Beveridge M: 16th Annual Trauma and Dissociation Conference, Ottawa, Ontario, June 2005. Trauma and Trauma: Is violence a communicable disease?


Brown MH: Federal Justice Department, Montreal, Quebec, June 2005. Silicone gel breast implant Class Action lawsuit.


Research and Investigations


Inhibition of Prostate Carcinogenesis in the Lady TRAMP mice by the administration of antioxidants in the diet-Protein profiling by SELDI mass spectrometry. Venkateswaran V: Dean’s Fund ($9,950 2004 - 2005)


Psychosocial functioning in women treated with mastectomy with or without breast reconstruction. Semple JL, Metcalfe K, Hollowa C: Canadian Breast Cancer Foundation ($183,168 2004 - 2007).
Honours Received


Gomez M: Carl A. Moyer Resident Award to the Best Research Paper (Co-Author), May 2005.
**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**


Klotz L, Klockgether T: Multiple system atrophy with macrosquare-wave jerks. Mov Disord: September 2004.


Invited Visits to Other Hospitals/Universities


Herschorn S: North Bay General Hospital, North Bay, Ontario, July 2004. Demonstration and teaching of obturator approach for female stress incontinence and perineal sling for male stress incontinence.


Herschorn S: Satellite symposium at the International Society of Urology Meeting, Honolulu, Hawaii, October 2004. Evolution of the transobturator procedure in women: Have we made a true advancement?


Herschorn S: International Continence Society Meeting, Paris, France, August 2004. 1.) Workshop on spinal cord injury neurogenic bladder 2.) From the first day to the end of spinal shock. 3.) Autonomic dysreflexia.


Nam RK: Mexican Urology Association, Cancun, Mexico, April 2005. Hormonal therapies for prostate cancer and radical prostatectomy.

Research and Investigations

Senior Investigator’s Name Appears in Italics

A qualitative exploration of women’s and men’s experiences when undergoing radical cystectomy for bladder cancer. Sharon Sharir and Debbie Miller; Margaret I. Fitch: PBR Award - Sunnybrook and Women’s ($14,259 2005 - 2007).

A Randomized Multicentre Clinical Trial to Evaluate the Efficacy of Amitriptyline for the Treatment of Painful Bladder Syndrome (PBS) in Newly Diagnosed Patients. Nickel C, Carr LK: NIH ($25,000 2005).


Inhibition of prostate carcinogenesis in the Lady TRAMP mice by the administration of antioxidants in the diet-Protein profiling by SELDI mass spectrometry. Venkateswaran V: Dean’s Fund ($9,950 2004 - 2005).


**Honours Received**

Nam RK: A.W. Bruce Undergraduate Teaching Award, Division of Urology, University of Toronto, June 2005.

**DIVISION OF VASCULAR SURGERY**

Dr. D.S. Kucey - Assistant Professor

Dr. R. Maggisano - Assistant Professor (Division Head)
Introduction
The Surgical Department of the Toronto East General Hospital has 21 Active surgeons including three Urologists, six Orthopedic Surgeons, eight General Surgeons including two thoracic and two vascular surgeons: four Plastic Surgeons and one consulting Neurosurgeon Dr. Fred Gentili.

Changes
This has been a relatively stable year for the Surgery Department at the Toronto East General Hospital. With a strong Anaesthesia department and available OR structural capacity, we have been able to respond to the Ministry’s focus on reducing wait times in both cancer care and total joint replacements.

Along these lines we welcome Dr. Frank Mastrogiacomo to the Division of Orthopedics. Frank is a graduate from the University of Toronto Orthopedic Program and has a PHD in Neuropharmacology. He recently completed a Lower Extremity fellowship with Dr. Allan Gross, Mount Sinai.

Dr. Harold Hall, Plastic Surgeon, moved to Courtesy Staff in December 2004.

Dr. Brett Beber joined our active staff in January 2005. Brett is a graduate from the University of Toronto Plastic Surgery Program with an interest in breast reconstruction and teaching.

Teaching has always been one of our strong points here at TEGH. Dr. Paul Bernick and Dr. Bill Kramer had the highest scores in the U of T Dept of Surgery Teaching Effectiveness Scores, this year.

General Surgery
Dr. P. Bernick - Assistant Professor
Dr. T. Gilas - Assistant Professor
Dr. R. Mackenzie - Assistant Professor, (Program Medical Director Ambulatory Care)
Dr. P. Sullivan – Lecturer
Dr. R. Zeldin – Assistant Professor (Division Head)

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

Presentations
Dr. Gianni Maistrelli


Plastic Surgery
Dr. B. Beber
Dr. M. Dupere
Dr. A. Kesarwani (Division Head)
Dr. L. Tate - Lecturer, (Chief of Surgery), (Program Medical Director Surgical Services)

Awards
Dr. Laura Tate, John H. Fowler Resident Teaching Award, Toronto East General Hospital

Thoracic Surgery
Dr. Carmine Simone
Dr. Rob Zeldin - Assistant Professor, (Division Head of General Surgery), (Medical Director, Regional Chair Ontario Society Thoracic Surgeons).

Presentations
Dr. Rob Zeldin


Urology
Dr. John Kell
Dr. Robert MacMillan - Assistant Professor
Dr. Rajiv Singal - Lecturer (Division Head)

Vascular Surgery
Dr. Vern Campbell - Lecturer
Dr. Wayne Tanner - Lecturer
The University Health Network Department of Surgery was reviewed in the 2004-05 academic year, and the assessment by Drs. Stewart Hamilton and Hartley Stern was very favourable. The reviewers stated “the clinical programs, undergraduate and resident education and research are all flourishing. An excellent document summarizing the research activities of the surgical faculty demonstrated an extensive research enterprise, consisting of total funding of more than $32M with a higher citation index factor than the Mayo Clinic”. The reviewers felt that the eight divisions in surgery were achieving at a high level, in all domains.

Previous UHN planning had led to the development of seven program groupings, with the Divisions of Surgery all intimately involved in one or more of these groupings. Specifically, surgeons participate in the Heart and Circulation Program (Cardiac Surgery and Vascular Surgery), Transplantation (General Surgery, Urology, Cardiac Surgery, Thoracic Surgery), Oncology and Blood Disorders (General Surgery, Neurosurgery, Plastic Surgery, Urology, Thoracic Surgery), Neural and Sensory Sciences (Neurosurgery), Musculoskeletal Health and Arthritis (Orthopedics, Plastic Surgery), Advanced Medicine and Surgery (General Surgery, Urology, Thoracic Surgery, Plastic Surgery), and Community and Population Health (General Surgery, Thoracic Surgery and Urology in the Minimally Invasive Surgery element).

Surgical Services at UHN, which included the additional Departments of Otolaryngology/Head and Neck Surgery, Ophthalmology, Gynecologic Oncology and Anesthesia, engaged this year in a strategic planning process entitled “Global Impact - Local Accountability”. This was an extremely valuable exercise whereby clinical “gaps” between our current activities and global benchmarks were articulated, and strategies proposed to ultimately close those gaps. By the end of the academic year, a planning document with clear objectives and timelines was circulated for feedback and ultimately, implementation.

In March 2005, all elective surgical procedures at UHN were recorded on an electronic form for the purposes of wait time capture in compliance with the provincial initiative led by Dr. Alan Hudson. This will undergo a number of modifications so that more accurate data will consistently be available.

Recruitment of four outstanding surgeons enriched the academic family at UHN. Dr. Mojgan Hodaie was recruited in the Functional Neurosurgery area and will be a tremendous asset to that program in collaboration with Dr. Andres Lozano. Dr. Claude Burul was recruited to the Division of General Surgery at the Toronto Western site, providing experienced clinical contributions along with a very positive educational track record. Dr. Marc de Perrot returned to the Thoracic Division with special expertise in transplantation and surgical oncology, having trained in both Toronto and Europe. Finally, Dr. Tony Finelli was appointed to the Division of Urology with outstanding abilities in minimally invasive uro-oncology. He returned after excellent fellowship training at the Cleveland Clinic.

For the July 2004 round of promotions, Drs. Vivek Rao and Tom Waddell were promoted to Associate Professor and Drs. Mingyao Liu, David McCready and Glenn Regehr were promoted to Full Professor.

For July 2005, Drs. David Urbach and Herb von Schroeder were promoted to Associate Professor, and Drs. Mark Cattral, Karen Davis and Fred Gentili to Full Professor.

During the year, Dr. Vivek Rao was appointed to the DeGasperis Chair in the Surgical Management of Heart Failure, and Dr. David Urbach to the Tyco Chair in Minimally Invasive Surgery. These two chairs constituted the 17th and 18th Endowed Chairs in Surgical Services, attesting to the generosity of donors, and to the recognition that retention and recruitment are critical to our academic success.
Department members continue to play important roles in the management of surgical education and also have achieved solid student and resident evaluations, in their day-to-day teaching. Drs. Dimitri Anastakis and Stephanie Brister are Clerkship Co-ordinators, Dr. Tom Lindsay the Undergraduate Co-ordinator, and Dr. Fred Gentili the Director of Surgical Education for UHN.

A year-end evaluation of the educational activities in the Department of Surgery declared “the Department of Surgery has invested heavily over the years in the development of an infrastructure that facilitates the delivery of education at all levels. This is strongest at the undergraduate level but is still very strong at the residency and fellowship education level. It has invested heavily in educational scholarship and continuing education”. The review specifically states “in addition to the large quantity of undergraduate teaching, the quality appears to be extremely high. On all dimensions UHN does well and consistently has received excellent scores for undergraduate education. In addition, UHN has undertaken to evaluate all of the seminars that are offered at the clerkship level and across the board, lectures have received a mean of 4.6 and 4.3 for years 3 and 4 respectively on a scale of 1 to 5. This reflects the delivery of an excellent seminar program to undergraduate students”.

In the area of educational scholarship, the review stated “it is arguably true that the Department of Surgery at UHN has one of the largest programs in educational scholarship in the world. It is active as a participant in the Centre for Research in Education, participates strongly in the Surgical Skills Laboratory that runs out of Mount Sinai Hospital, and has been very productive from an academic sense of attracting peer-reviewed funding in education and in performing graduate education. Without a doubt this is a major area of strength for the department at UHN”.

In the research domain, UHN surgeons have been extremely active. In the last year, a total of $34.6M of funding was secured, distributed throughout the eight divisions. A bibliometric analysis demonstrated both volume and quality of publications, and comparisons with the Mayo Clinic were extremely favourable in every division, both from the standpoint of numbers and from number of papers cited.

The division at greatest risk during the academic year was Vascular Surgery. The three remaining members of this group continue to be the most academically productive vascular surgeons in Canada, but the departure of one surgeon and the delayed implementation of the Wright Review, has placed great pressures on the entire organization. Both the vascular surgeons and management continue to work with the other T.A.H.S.N hospitals and the Ministry of Health, to solve the ongoing vascular issues in the GTA.

In summary, the members of the Divisions of Surgery at UHN, have continued to be extremely productive clinically and academically, in the face of persistent challenges in the health care system.
DIVISION OF CARDIAC SURGERY

Dr. M.A. Borger - Assistant Professor
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. J. Ivanov - Assistant 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


**Invited Visits to Other Hospitals/Universities**


**Borger MA**: Marfan’s Society of Canada, Calgary, Alberta, June 2005. Aortic valve sparing operations in Marfan’s patients.

**Borger MA**: Canadian Cardiovascular Society Workshop, Calgary, Alberta, October 2004. 1) Ischemic mitral regurgitation: Surgical options. 2) Valve replacement options and patient selection: A surgeon’s perspective.


**Borger MA**: Sacramento Cardiology Society, Sacramento, California, June 2005. Tissue valve replacement: How young is too young?

**Borger MA**: Valve Surgery Outcomes and Options Meeting, Toronto, Ontario, October 2004. Twenty year results of the Hancock II valve.

**Borger MA**: Canadian Society of Echocardiography, King City, Ontario, April 2005. Understanding the mitral valve: From structure and function to surgical management.

**Borger MA**: St. Jude Medical Sales and Marketing Meeting, Vancouver, British Columbia, June 2005. What are surgeons looking for in a tissue aortic valve?


David TE: The Society of Cardiac Surgeons, La Coruna, Spain, June 2005.  Live surgery: aortic valve repair and replacement of the ascending aorta and arch, and lecture on “aortic valve sparing operations”.


Li R-K: Symposium in Stem Cell Repair and Regeneration, Imperial College London, Faculty of Medicine, London, United Kingdom, September 2004.  Left ventricular aneurysm replacement with cell-seeded biodegradable materials.

Li R-K: XVIII World Congress International Society for Heart Research, Queensland, Australia, August 2004.  Mechanism for cell transplantation to Improve heart function: cells or matrix.


Li R-K: International Conference of Advanced Biotechnology, National Cheng Kung University, Taiwan, Tainan, Taiwan, PR of China, October 2004.  Novel biomaterial and techniques for creation of cell Engineered cardiac tissue.


Rao V: Ohio State University, Columbus, Ohio, November 2004. Mechanical circulatory support for post-cardiotomy shock.


Rao V: Canadian Cardiovascular Society, Calgary, Alberta, October 2004. 1) Surgical management of ischemic mitral regurgitation. Surgical Workshop. 2) Use of mechanical circulatory support for end-stage heart failure in Canada.


Rao V: Ohio State University, Columbus, Ohio, June 2005. The operating room as a laboratory (Cardiac Surgery Rounds).


Weisel RD: German Society of Thoracic, Cardiac and Vascular Surgery, Hamburg, Germany, February 2005. A) Myocardial ischemia and protection. B) What are the prerequisites for efficient myocardial protection?


Weisel RD: National Institutes of Health, Bethesda, Maryland, August 2004. Opportunities for cell transplantation.


Weisel RD: Canadian Cardiovascular Congress, Calgary, Alberta, October 2004. The future of cardiac surgery.

Weisel RD: Society for Thoracic Surgical Education, Key Largo, Florida, February 2005. Where we really are with stem cells.

Weisel RD: International Society for Heart and Lung Transplantation, Philadelphia, Philadelphia, April 2005. Will all of our problems be solved by cells?
Research and Investigations

Senior Investigator’s Name Appears in Italics


A propensity score, pairmatched study of late outcomes for off-pump versus on-pump coronary artery bypass graft surgery. Ivanov J, Borger MA, David TE, Tu JV: Heart and Stroke Foundation of Canada ($86,000 2004 - 2005).

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


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 R-K, Hellerstein M: Ontario Ministry of Agriculture and Food/ University of Guelph Food Research Program ($600,000 2004 - 2008).


Polyarginine treated vein grafts (PATENT).  


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


**Honours Received**

**Borger MA:** Roscoe Reid Graham Award Department of Surgery Award, University of Toronto, September 2004.

**David TE:** President, American Association for Thoracic Surgery, April 2005.

**David TE:** University Professor, University of Toronto, July 2004.

**Rao V:** Alfredo and Teresa DeGasperis Chair in Surgical Management of Heart Failure, University Health Network, University of Toronto, January 2005.

**Scully HE:** Founding Fellow, FIA (World) Institute for Motorsport Safety, October 2004.

**Weisel RD:** Distinguished Achievement Award, Council on Cardiovascular Surgery and Anesthesia, American Heart Association, November 2004.

**Weisel RD:** Guest Lecturer at the American Association for Thoracic Surgery, San Francisco, CA, April 2005.

**Weisel RD:** Wilfred Bigelow Lectureship 2004 Award, October 2004.
DIVISION OF GENERAL SURGERY
Dr. C. Burul - Assistant Professor
Dr. M.S. Cattral - Professor
Dr. E. Escallon - Associate Professor
Dr. R.M. Gorczynski - Professor
Dr. D. Grant - Professor
Dr. P.D. Greig - Professor
Dr. B. Langer - Professor
Dr. W.L. Leong - Assistant Professor
Dr. D.R. McCready - Professor
Dr. I.D. McGilvray - Assistant Professor
Dr. M. Reedijk - Assistant Professor
Dr. R.K. Reznick - Professor
Dr. L.E. Rotstein - Professor (Acting Division Head)
Dr. B.R. Taylor - Professor
Dr. D. R. Urbach - Assistant Professor
Dr. H.A.E. Weizel - Associate Professor

Publications


Invited Visits to Other Hospitals/Universities

Cattral MS: Alberta Transplantation Institute, University of Alberta Hospital, Edmonton, Alberta, December 2004. Living donor Liver Transplantation.


Escallon J: Universidad de Antioquia, Medellin, Colombia, May 2005. Courses of Total Nutritional Therapy - TNT.


McCready DR: Keck School of Medicine, University of Southern California - International Consensus Conference II on Image-Detected Breast Cancer, Miami, Florida, January 2005. 1) Results of breast conserving treatment without radiation. 2) Sentinel lymph node micrometastases.


Reznick RK: Keynote Speaker, First Oresund Symposium on Skills Centres, University of Copenhagen, Copenhagen, Denmark, November 2004. 1) From Competence to Virtuosity. 2) Improving Surgical Performance & Safety with Information Technology.

Reznick RK: Grand Rounds, University of Wisconsin at Madison, Madison, Wisconsin, April 2005. Lessons for the surgical teacher: We should have listened to Vince.

Reznick RK: Kaohsiung Medical University, Kaohsiung, Taiwan, March 2005. New directions for a surgical residency.


Reznick RK: Peter Canizaro Lecture, Cornell University, New York, New York, November 2004. Surgical Education: Changes in the wind - or is that just a breeze?


Reznick RK: German Society of Surgery Clinical Congress, Munich, Germany, April 2005. What are the effects of a surgical skills lab?


Research and Investigations


A qualitative study comparing health care providers’, patients’, and family perceptions, attitudes and beliefs about the risk of living liver donation. *Fecteau A, Grant D, Wright L: Physicians Services Incorporated Foundation* ($64,000 2004 - 2006).


A randomized, phase III clinical trial to compare sentinel node resection to conventional axillary dissection in clinically node-negative breast cancer patients. *McCready DR, PMH Site Principal Investigator: National Surgical Adjuvant Breast and Bowel Project* ($120,000 2004 - 2005).

Analysis of current research related to the impact of low volume procedures/surgery and care on outcomes of care. *Urbach DR, Stukel TS: Canadian Institute for Health Information* ($22,000 2004 - 2005).

Analysis of the Notch Signaling System in Human Breast Cancer. *Reedijk M: James Ewing Oncology Fellowship Award for Basic Science Society of Surgical Oncology* ($40,000 2004).


FK 778 Proof of concept study in liver transplantation (anticipated enrollement of 10 patients). *Grant D (Senior Site Investigator)*, This is a multicenter European and Canadian trial: *Fujisawa* ($160,000 2003 - 2004).


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


Pushing back the boundaries of whole genome analysis of microdissected fixed human tissue samples with improved amplification. *McCreary DR*, Done S: *Sir Jules Thorn Charitable Trust* ($50,000 2004 - 2005).


**Honours Received**

**Greig PD:** Nomination for Gerald Kirsh Humanitarian Award - Princess Margaret Hospital, November 2004.

**McCart JA:** The Saul Highman Memorial Award from the Leukemia and Lymphoma Society of Canada, June 2005.

**McGilvray ID:** Bernard Langer Surgical Scientist Award, May 2005.

**Reznick RK:** 2005 Daniel C. Tosteson Award for Leadership in Medical Education from the Carl J. Shapiro Institute for Education and Research., April 2005.

**Rotstein LE:** Frank Mills Award for Excellence in Teaching by a General Surgery Faculty Member. Division of General Surgery, Faculty of Medicine, University of Toronto, June 2005.

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 - 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. A. Velumian - Assistant Professor
Dr. M.C. Wallace - Professor (Division Head)

Publications


Tsai EC, Krassioukov AV, Tator CH: Corticospinal regeneration into lumbar grey matter correlates with locomotor recovery after complete spinal cord transection and repair with peripheral nerve grafts, fibroblast growth factor 1, fibrin glue, and spinal fusion. Journal of Neuropathology and Experimental Neurology: March 2005: 64: pp 230-244.


**Invited Visits to Other Hospitals/Universities**

**Bernstein M:** 11th ASEAN Congress of Neurological Surgeons, Bali, Indonesia, December 2004. 1) Errors in neurosurgery; 2) Neurosurgical training in Canada; 3) Navigating anatomy and function to help brain tumor surgery; (4) The role of chemotherapy for glioma.

**Bernstein M:** World Federation of Neurosurgical Societies Tumor Section Meeting, Jaipur, India, October 2004. 1) Image and function-guided brain tumour surgery; 2) Malignant glioma: Questions and more questions; 3) Ethical issues in neuro-oncology studies; 4) Low-grade glioma: Questions and more questions.


**Bernstein M:** 39th Meeting of the Canadian Congress of Neurological Sciences, Calgary, Alberta, July 2004. Error and patient safety.

**Bernstein M:** Visiting Professor, University of Pittsburgh, Pittsburgh, Pennsylvania, May 2005. Patient safety and errors in neurosurgery.

**Davis KD:** Department of Biology (seminar series), York University, Toronto, Ontario, November 2004. “Brain imaging of your brain in pain”.


**Davis KD:** BIOMAG2004: 14th international biennial event, Boston, Massachusetts, August 2004. Symposium Lecture: “Neuroimaging of pain”.


**Fehlings MG:** 7th International Neurotrauma Symposium, South Adelaide, Australia, September 2004. 1) Chair: Session 7.1: Neuroprotection, 2) The FAS death receptor as a target for neuroprotective therapy of acute spinal cord injury.

**Fehlings MG:** Spine Trauma Study Group, New Orleans, Louisiana, October 2004. 1) Co-Chair. 2) Recent developments in Spine Trauma Study.

**Fehlings MG:** Spine Trauma Study Group, Memphis, Tennessee, November 2004. 1) Co-Chair: An interactive spine course focusing on contemporary surgical techniques in spine trauma; 2) State of the art update - Techniques and timing of surgery in SCI; 3) Panel member and discussant for case presentations.


**Fehlings MG:** AOSpine North America, Bermuda, November 2004. 1) Faculty Retreat, 2) AOSpine North America Scientific Committee Meeting.

Fehlings MG: American Spinal Injury Association, 31st Annual Scientific Meeting, Dallas, Texas, May 2005. 1) Faculty, Spine Trauma Study Group meeting; 2) Co-Chair: Spine Trauma Symposium; 3) Invited lecture: Early vs. delayed surgery for cervical spinal cord injury with a cervical fracture/dislocation; 4) Section Moderator: Special section on the classification and treatment options for patients with spine trauma.


Fehlings MG: Cervical Spine Research Society, Boston, Massachusetts, December 2004. 1) Moderator: Session XII - Basic science papers; 2) The future of spinal cord injury - Where will we be in ten years?; 3) Co-Chair Session: Cervical spinal surgery: Update on spinal cord injury timing of spinal cord decompression - case presentation and discussion.


Fehlings MG: 13th International Congress of Neurological Surgery, World Federation of Neurosurgical Societies, Marrakesh, Morocco, June 2005. 1) Speaker, Symposium on spinal diseases in developing countries: Basics of spinal cord injury; 2) Chairman, Spinal trauma: Which material for stabilization?


Fehlings MG: International Collaboration on Repair Discoveries (ICORD), University of British Columbia, Vancouver, British Columbia, October 2004. Member of External Advisory Board.

Fehlings MG: International Campaign for Cures of Spinal Cord Injury Paralysis (ICCP), Los Angeles, California, November 2004. Member of spinal cord injury clinical trials advisory panel.

Fehlings MG: Christopher Reeve Paralysis Foundation, Santa Monica, California, March 2005. Scientific Advisory Committee Grant Applications Review.

Fehlings MG: Christopher Reeve Paralysis Foundation, La Jolla, California, September 2004. Scientific Advisory Committee meeting - grant reviews 2004.

Fehlings MG: Institute of Experimental Medicine, Academy of Sciences of the Czech Republic, Prague, Czech Republic, July 2004. Symposium on “Brain research: Where is it going?” Pathophysiology of white matter dysfunction after neurotrauma.

Fehlings MG: Reeve-Irvine Research Center, University of California, Irvine, California, July 2004. Visiting Professor: Neuroprotection of the injured spinal cord: from bench to bedside.


Lozano AM: 16th International Congress on Parkinson’s Disease, Berlin, Germany, June 2005. 1) Deep brain stimulation (complications); 2) Deep brain stimulation.


Lozano AM: Meeting on Parkinson’s Disease, Cold Water Spring Harbor Laboratory, January 2005. 1) Neurophysiological attributes of Parkinson’s Disease - Insights from intraoperative single neuronal recordings; 2) Intraparenchymal brain delivery of therapeutic compounds for Parkinson’s Disease.


Lozano AM: 2004 E. Harry Boterell Lectureship in Neurosurgery, Toronto Western Hospital, Toronto, Ontario, November 2004. Towards deep brain stimulation to treat refractory major depression.


Saint-Cyr JA: Disconnecting the basal ganglia: Physiological mechanisms and neuropsychological consequences of deep brain stimulation in Parkinson’s disease. Rotman Research Institute, Toronto, ON. April 2005.

Saint-Cyr JA: 1.) Dopamine, learning and gambling in PD: a clinical perspective 2.) Basal ganglia, dopamine and learning: Integrating computational and clinical perspectives. Hebrew University and NIH-NIDA, Jerusalem, Israel, June 2005

Saint-Cyr JA: Electrode location, anatomical correlates and clinical outcome of STN DBS. University of Minnesota, Department of Neurology, Minnesota, Minneapolis, October 2004.


Tymianski M: Rejkavik, Iceland, July 2004. Cerebral neuroprotection: Is there hope?


Velumian A: VII European Meeting on Glial Cell Function in Health and Disease, Amsterdam, the Netherlands, May 2005. Cytoplasmic diffusional pathways within oligodendrocyte-myelin units: Role in myelin maintenance and dysfunction.


Wallace MC: 3 Congresso Gaucho de Neurologica e Neurocirurgia, Brazil, April 2005. 1) DVAF classification and treatment; 2) Hypertensive hematomas - What are the news; 3) Neurovascular Program in Toronto - The Neurosurgeon’s Role; 4) Treatment of ruptured/unruptured aneurysm. What should the neurosurgeon do? 5) Toronto Western experience? An interactive session.


Wallace MC: Visiting Professorship, University of Buffalo, Buffalo, New York, January 2005. Treat the lesion or the patient: Tough question.
**Research and Investigations**

*Senior Investigator's Name Appears in Italics*


Attention-related responses in the human cingulate cortex. *Davis KD: Ontario Mental Health Foundation ($85,127 2003 - 2005).*


Cellular mechanisms of secondary traumatic neuronal injury. *Tymiansk Mi: CIHR grant MOP 53353 ($315,000 2002 - 2005).*


Clinician scientist sward Phase II 3 year renewal. *Tymianski M: CIHR ($165,000 2003 - 2005).*

Compassionate use study agreement # RAC 04-074 (Op-1). *Fehlings MG: Stryker Biotech ($20,000 2004).*

Correction of rett phenotype by exogenous Ggne delivery. *Eubanks JH, McIntyre Burnham W, Carter Snead III O: Canadian Institutes of Health Research ($224,315 2002 - 2004).*


Cytoskeletal regulation of traumatic brain injury. *Tymianski M, Arundine M: Ontario Neurotrauma Foundation Doctoral Award (Declined) ($20,000 2002 - 2005).*

Development and characterization and of transgenic mouse models of astrocytomas. *Guha A: NCIC ($627,500 2002 - 2007).*

Development of mouse models of human astrocytomas. *Guha A, Gutmann: NIH ($1,341,280 2001 - 2005).*


Doctoral training award to Lori Mutsaers (MD-PhD student): Role of voltage dependent K+ channels in posttraumatic axonal dysfunction: Molecular and immunocytochemical studies. *Fehlings MG: Medical Research Council of Canada ($129,201 1998 - 2004).*


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


Evaluation of effective stimulation parameters for seizure control in rats with thalamic deep brain stimulation, using a pilocarpine seizure model. *Hodaie M, Lozano A: JFW Gettys Neurosurgery Research Fund ($20,000 2005).*
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).


Fellowship award to E. Eftekharpoor: Repair of the chronically injured spinal cord: Use of neural stem cell transplantation to promote spinal cord remyelination. Eftekharpoor E, Fehlings MG: Christopher Reeve Paralysis Foundation ($140,000 2005 - 2007).


Finding Cures for glioblastomas: Characterization of a Mouse Transgenic Astrocytoma Model as a Therapeutic Testing Platform. Guha A: Cleveland Clinic Foundation ($190,000 2002 - 2004).


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


Molecular mechanisms of neuronal injury. Tymianski M, 12 investigators across Canada: Canadian Stroke Networks ($765,000 2003 - 2005).


Neuroprotection after spinal cord injury by targeting the Fas death receptor (RHWIM 004-04). Fehlings MG: Rick Hansen Man in Motion Foundation ($12,375 2004 - 2005).

Neuroprotection after spinal cord injury by targeting the Fas receptor (PSI #04-17). Fehlings MG: The Physicians’ Services Incorporated Foundation ($140,500 2004 - 2006).
North american clinical trials network for the treatment of spinal cord injury.  
*Fehlings M, Tator CH: Christopher Reeve Paralysis Foundation, Clinical Trial Agreement* ($179,520 2004 - 2005).

Pathophysiology of oligodendroglial-axonal interactions in spinal cord white matter injury.  
*Velumian A, Fehlings MG: Department of Medicine / Dean's Fund/ New Staff Grant* ($9,994 2004 - 2005).

Pathophysiology of parkinson’s disease.  

Phase III, international study of unruptured intracranial aneurysms (ISUIA).  

Post-doctoral Fellowship Award to Bradley Jacobs for “The role of FAS and p75 death receptor pathways in apoptosis after spinal cord injury”.  
*Fehlings MG: Canadian Institutes of Health Research* ($253,125 2001 - 2006).

Pre-clinical studies on treatment of stroke with inhibitors of NMDA receptor-PSD-95 interaction.  

Regenerative medicine strategies for spinal cord injury repair: Integration of stem cell biology, nanotechnology, bioengineering approaches and neurosurgical application (RMF-72552).  
*Fehlings MG, Morshhead C, Shoichet M, Stanisz G, Tator CH, van der Kooy D: Canadian Institutes of Health Research (CIHR)* ($1,500,000 2004 - 2009).

Role of angiopoietins in human astrocytomas.  

Spatial summation and discrimination of pain in humans- An fMRI study.  
*Davis KD, Defrin R: International Association For The Study of Pain - Collaborative Research Grant* ($10,505 2003 - 2005).

Spinal cord repair.  


The role of epigenetics in neuronal excitotoxicity and apoptosis.  

The role of lipid rafts in ischemia-induced modulation of postsynaptic signalling.  

The role of the p75 neurotrophin receptor in the death of neurons and glia after spinal cord injury.  

The secret life of the paranode: An examination of the role of paranodal myelin loops in the normal physiology and pathophysiology of axons.  

The surgical treatment of acute spinal cord injury study (STASCIS).  
*Fehlings MG: The Krembil Foundation* ($300,000 2002 - 2005).

Transforming neuropathic pain research in Canada.  

Transplantation of human adult spinal cord ependymal stem/progenitor cells in spinal cord injury.  
*Tator C: Christopher Reeve Paralysis Foundation* ($194,083 2004 - 2006).
Honours Received


Lozano AM: Nominated to German Academy of Neurological Surgery, July 2004.

Tator CH: Award of Appreciation from the Canadian Congress of Neurological Sciences in recognition of his tenure as President of the Canadian Brain and Nerve Health Coalition, June 2005.


Wallace MC: Division of Neurosurgery, Alan R. Hudson Teaching Award, April 2005.
DIVISION OF ORTHOPAEDIC SURGERY
Dr. J.R. Davey - Associate Professor (Division Head)
Dr. B.A. Graham - Assistant Professor
Dr. J. Lau - Assistant Professor
Dr. S.J. Lewis - Assistant Professor
Dr. N. Mahomed - Assistant 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 - Assistant Professor

Publications


Lau J, Mahomed N, Schon L: Results of an internet survey determining the most frequently used ankle scores by AOFAS members. Foot Ankle: June 2005: 26(6): pp 479-482.


Invited Visits to Other Hospitals/Universities


Mahomed N N: MEDEC Orthopaedic Committee, Montreal, Quebec, June 2005. Orthopaedic health economics / future Plans for Ontario Disease Management.


Mahomed N N: The Arthritis Society, Toronto, Ontario, June 2005. Total joint replacement are you ready for it?

Mahomed N N: University of Ottawa, Ottawa, Ontario, November 2004. 1) Towards an Evidence Based Continuum of Care for Total Joint Arthroplasty. 2) Volume and Outcomes of Joint Replacement Surgery in the US.


Rampersaud YR: 31 Annual Scientific Meeting of the American Spinal Injury Association, Dallas, Texas, May 2005. Is there a role for minimally invasive surgical treatment for T-L trauma?


Rampersaud YR: Emerging Technologies Focus Group (Summer Think Tank), Phoenix, Arizona, September 2004. Motion preserving spinal technologies.

Rampersaud YR: Canadian Orthopaedic Residents Association (CORA), Montreal, Quebec, November 2004. Surgical management of metastatic spinal disease.


Research and Investigations

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

A prospective clinical trial of 1st MTPJ arthrodesis compared to 1st MTPJ hemiarthroplasty in severe hallux rigidus. Lau J, Daniels T, Waddell J: *Zimmer Research Fund* ($10,000 2004 - 2005).


A randomized controlled clinical trial of 1st MTPJ arthrodesis compared to 1st MTPJ hemiarthroplasty in severe hallux rigidus. Lau J, Daniels T, Waddell J, Mahomed N: *Canadian Orthopaedic Foundation* ($10,000 2003 - 2004).

A randomized controlled clinical trial of 1st MTPJ arthrodesis compared to 1st MTPJ hemiarthroplasty in severe hallux rigidus. Lau J, Daniels T, Mahomed N: *Physician Service Incorporated* ($73,000 2004 - 2006).


Evaluating the international classification of function as a model for evaluating rehabilitation outcomes. Davis A, Badley E, Gignac M, Beaton D, Mahomed N, Streiner D, Flannery J, Schemitsch E: *Canadian Institute of Health Research (CIHR)* ($75,000 2003 - 2006).


Honours Received

**Lau J:** North American Travelling Fellowship (Canadian Orthopaedic Association, 2005), June 2005.

**Lewis SJ:** AO Spine Centre of Excellence Award, September 2004.

**Lewis SJ:** Education Award for Outstanding Contributions to Surgical Skills Education, May 2005.

**Lewis SJ:** Robert Salter Award, for Outstanding Teaching of the Orthopaedic Residents, University of Toronto, Department of Surgery, November 2004.

**Mahomed NN:** Wightman-Berris Academy teaching award, May 2005.
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. J.E. Lipa - Assistant Professor
Dr. R.T. Manktelow - Professor
Dr. P.C. Neligan – Professor (Division Head)

Publications


Invited Visits to Other Hospitals/Universities


Lipa JE: GAM Canada (Groupe Pour L’Avancement de la Microchiururgie) 26th Annual Meeting, Nanaimo, British Columbia, June 2005. Panel Discussion: “This perforator flap is now my workhorse”.


Neligan PC: Universiti Sains Malaysia, Kota Baru, Kelantan, Malaysia, August 2004. Visiting Professor: 1) Overview of reconstructive surgery. 2) The changing face of microvascular reconstruction. 3) Recent advances in reconstructive microsurgery. 4) Pre-clinical and clinical research in plastic surgery. 5) The Canadian training system.
Research and Investigations
Senior Investigator’s Name Appears in Italics


Maladaptive and adaptive markers of pain and sensorimotor cortical plasticity following repair of peripheral nerve injuries: A pilot study. Davis K, Anastakis DJ, Mikulis D, Chen R: University of Toronto Centre for the Study of Pain/AstraZeneca Program ($12,000 2004 - 2005).


Honours Received
Neligan PC: Distinguished Service Award for Contributions to Technology Initiatives with the Plastic Surgery Educational Foundation, October 2004.
DIVISION OF THORACIC SURGERY
Dr. G.E. Darling - Associate Professor
Dr. M. de Perrot - Assistant Professor
Dr. M.R. Johnston - Associate Professor
Dr. S. Keshavjee - Professor (Division Head)
Dr. M.F. McKneally - Professor Emeritus
Dr. M. Liu - Associate Professor
Dr. A.F. Pierre - Assistant Professor
Dr. T.K. Waddell - Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities


Darling GE: ACOSOG, San Antonio, Texas, January 2005. 1) Esophageal Workshop Summary. 2) A randomized trial of mediastinal lymph node sampling versus complete lymphadenectomy during pulmonary resection in the patient with N0 or N1 (less than hilar) non small cell carcinoma.

Darling GE: XIV Brazilian Congress of Thoracic Surgery, Goiania, Brazil, June 2005. 1) Infectious diseases. 2) Pleura. 3) Pleural Effusion. 4) Tumoral Markers x TNM.


Keshavjee S: Johns Hopkins University, Baltimore, Maryland, January 2005. Molecular diagnostics in lung transplantation.


McKneally MF: Harvard Medical International, University of Lausanne, Lausanne, Switzerland, May 2005. “Ethics of Innovation”.


Waddell TK: Washington University, St. Louis, May 2005. Lung regeneration as an approach to chronic rejection.

Research and Investigations

Senior Investigator’s Name Appears in Italics


A study to find out if a new medical device called the intra-bronchial valve (IBV) is safe and effective to use in subjects with severe emphysema. Waddell TK: Spiration Inc. ($524,440 2004 - 2005).


Endothelial glycosylation, monocyte adhesion, and delayed xenograft rejection. Waddell TK: Canadian Cystic Fibrosis Foundation ($207,000 2003 - 2006).


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).

Impact of endothelial cell apoptosis on lung function after reperfusion of chronically obstructed pulmonary artery. de Perrot M, Fadel E: Legs Poix, University Paris-Sud, France ($30,000 2004 - 2005)

L-selectin modulation of chemokine receptor expression and function: Mechanisms and significance. Waddell TK: Canadian Institutes of Health Research ($303,000 2003 - 2005).


DIVISION OF UROLOGY
Dr. M. Beheshti - Lecturer
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:** Columbiana de Urologia, Cartagena, Columbia, August 2004. Laparoscopic radical prostatectomy. Performed live laparoscopic radical prostatectomy.

**Finelli A:** 1st Ege University Laparoscopic Urology Course, Izmir, Turkey, April 2005. Laparoscopic radical prostatectomy. Visiting professor. Performed live laparoscopic radical prostatectomy.


**Fleshner NE:** GlaxcoSmithKline Global Uro-oncology Think Tank, Barcelona, Spain, November 2004. New methods for prostate cancer detection.

**Fleshner NE:** Canadian Prostate Cancer Network, Calgary, Alberta, August 2004. Role of diet in prostate cancer prevention.


**Matthew AG:** York University, Toronto, Ontario, February 2005. Health Psychology in a hospital oncology clinic: Psychosocial approaches to diagnosis and management across the disease trajectory.


**Matthew AG:** University of Western Ontario, London, Ontario, May 2005. Outcome measures in downtown private psychology practice.


Research and Investigations

*Senior Investigator’s Name Appears in Italic*

A global phase IV, double-blind, placebo-controlled, randomized trial to evaluate the effectiveness of detrusitol’ae SR (tolterodine tartrate) 4mg on patient’s perception of bladder condition (PPBC). *Radomski S,: Pfizer Canada* ($24,000 2004 - 2005).


Prostate Cancer Prevention Clinic. *Trachtenberg J*, Matthew AG, Horsburgh S: *Princess Margaret Hospital Foundation* ($1,000,000 2005 - 2011).


**Honours Received**

**Jewett MAS**: University of Toronto - IMS Summer Research Student Scholarship for Mr. Aresh Gharaje, for project “The Natural History of Renal Cell Carcinoma”, July 2004.
DIVISION OF VASCULAR SURGERY
Dr. K.W. Johnston - Professor
Dr. T.F. Lindsay - Associate Professor
Dr. B.B. Rubin - Associate Professor (Division Head)

Publications


Invited Visits to Other Hospitals/Universities


Lindsay TF: Canadian Society for Vascular Surgery, Quebec City, Quebec, October 2004. 1) Initial Experience with Endovascular Repair of Thoracoabdominal Aneurysms. 2) Oral Complement Antagonism Reduces the Pulmonary and Interstitial Injury in a Model of Ruptured Abdominal Aortic Aneurysm. 3) The Role of Mast Cells in Cardiac Contractile Dysfunction Following Hemorrhagic Shock and Resuscitation.


**Research and Investigations**

*Senior Investigator’s Name Appears in Italics*


Molecular regulation of myocardial cyclooxygenase-2 expression and prostaglandin biosynthesis in neonatal rat cardiac myocytes (this grant was declined as I was accepted by the CIHR for a 5 year grant award for the same project).  *Rubin B: Heart & Stroke Foundation of Canada* ($190,000 2002 - 2005).


This past year, members of the Division provided one or more courses in Anatomy to over 1600 students from 11 programs across six Faculties of the University. We were successful in obtaining new funding to help in developing the laboratory components in several of these courses. Awards obtained from the Academic Incentives Fund in collaboration with the Faculties of Dentistry and Physical and Health Education, will allow the Division to enrich the gross anatomy laboratories offered to students in these programs and to create more opportunities for graduate students to gain teaching experience. An award from the Provost’s Information Technology Development Fund with matching funds from the Faculty of Medicine, will underwrite the development of a ‘virtual microscope’ to be used in teaching Histology to the medical class. Utilizing compression and streaming software, high resolution annotated scans of microscope sections, can be delivered over the internet, allowing a student’s computer to emulate a microscope. This approach will eliminate the classic histology ‘microscope lab’ from the medical timetable and will provide for a more student-centred approach to learning Histology. Using the highest quality images, the ‘virtual microscope’ lab units will offer students the flexibility to schedule their own time for laboratory study, together with self-assessment tests, and unlimited opportunity for review.

Honours and Awards
Ian Taylor received the E. Mary Hollington Award for teaching with distinction in the undergraduate preclinical curriculum and Anne Agur received her second W.T. Aikens Faculty Teaching Award for individual teaching performance. The Division received a special presentation from the Sunnybrook-Osler Centre for Prehospital Care for its outstanding contribution and commitment to paramedic education. Cindi Morshead has been appointed to the Editorial Board of *Current Stem Cell Research and Therapy* and Anne Agur has been appointed an Associate Editor of *Clinical Anatomy*. The interactive website developed by Pat Stewart entitled *Functional Neuroanatomy* was accepted “with distinction” by the Health Education Assets Library (HEAL). HEAL is a repository of peer reviewed digital educational media in medical science and is a part of the USA National Digital Science Library.

Personnel
Mina Kim successfully defended her Master’s thesis under the supervision of Cindi Morshead and two new postdoctoral fellows, Drs. Anna Erlandson and Tasneem Zahir have recently joined Cindi’s lab.

Mike Wiley has been re-appointed for a second term as Division Chair.

Bernie Liebgott has officially retired from the University as of July 1, 2005 after 40 years as a Professor of Anatomy. He has graciously agreed to return post-retirement to help with our undergraduate teaching. There is a search currently underway for a new recruit to fill the tenure stream position opened by Bernie’s retirement.
DIVISION OF ANATOMY
Dr. A. Agur - Associate Professor
Dr. B. Ballyk - Lecturer
Dr. B. Liebgott - 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)

Publications


**Invited Visits to Other Hospitals/Universities**

**Morshead CM:** University Health Network - Rehabilitation Science Research Rounds, Toronto, Ontario, January 2005. Adult neural stem cells and their role in functional recovery following stroke.

**Morshead CM:** International Symposium - Adult neurogenesis in normal and pathological conditions, Okazaki, Japan, November 2004. Adult neural stem cells and their role in stroke recovery.

**Morshead CM:** Henry Ford Health Centre, Detroit, Michigan, December 2004. Identifying neural stem cells and their role in stroke recovery.

**Morshead CM:** UTERP Fellow Rounds, Toronto, Ontario, March 2005. Identifying neural stem cells and their role in stroke recovery.

**Morshead CM:** Neuroscience Rounds, Toronto, Ontario, April 2005. Neural stem cells and their role in stroke recovery.

**Morshead CM:** Krembil Neuroscience Centre Spinal Program, Toronto, Ontario, September 2004. Repairing the brain from within: utilizing adult neural stem and progenitor cells to promote functional recovery.


**Morshead CM:** Stem Cell Network, Montreal, Quebec, November 2004. Stem cells to treat stroke.

**Saint-Cyr JA:** Cognitive and behaviours aequelae of deep brain stimulation of the subthalamic nucleus. Mental Dysfuctions in Parkinson’s Disease. Presentation, Salzburg, Austria, October 2004.


**Saint-Cyr JA:** Disconnecting the basal ganglia: Physiological mechanisms and neuropsychological consequences of deep brain stimulation in parkinson's disease. Rotman Research Institute, Toronto, ON. April 2005.

**Saint-Cyr JA:** A) Dopamine, learning and gambling in PD: a clinical perspective B) Basal ganglia, dopamine and learning: Integrating computational and clinical perspectives. Hebrew University and NIH-NIDA, Jerusalem, Israel, June 2005

**Saint-Cyr JA:** Electrode location, anatomical correlates and clinical outcome of STN DBS. University of Minnesota, Department of Neurology, Minnesota, Minneapolis, October 2004.

**Stewart P:** The tablet PC as a teaching tool. Slice of Life/AAMC Conference, Portland Oregon, June 2005.

**Research And Investigations**

*Senior Investigator's Name Appears in Italics*


Approaches to self-repair: Characterizing the endogenous responses of neural stem cells following brain injury. *Morshead C: Premier’s research excellence award (PREA)* ($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* ($10,000 2004-2009).

Development of an in situ 3D computer model to investigate movement/stability characteristics of lumbar back muscles. *Agur A: Connaught Foundation University of Toronto* ($10,000 2003-2005).


EPO and neural stem cells. Morshead C: Ortho Biotech ($30,000 2004 - 2005).

Examining the function and regulation of adult mammalian neural stem cells. Morshead C: Canadian Institutes of Health Research (CIHR) ($99,399 2005 - 2006).

Examining the regulation and modification of neural stem cell behaviour. Morshead, CM: Connaught Award - University of Toronto ($10,000 2003 - 2005).


Regenerative Medicine Strategies for spinal cord injury repair: Integration of stem cell biology, nanotechnology, biengineering approaches and neurosurgical application. Fehlings MG, Morshead C: Canadian Institutes of Health Research - New emerging teams grant (CIHR) ($1,500,000 2004 - 2007).

Regulating adult neural stem cells using in vivo and in vitro manipulation. Morshead C: Canadian Institutes of Health Research (CIHR) ($350,000 2005 - 2008).

Start up funds. Morshead C: University of Toronto ($50,000 2003 - 2004).


The identification and regulation of mammalian neural stem cells. Morshead C: Canadian Institutes of Health Research (CIHR) ($149,844 2002 - 2004).


The therapeutic potential of adult neural stem cells. Morshead CM: Connaught Grant - University of Toronto ($20,000 2003 - 2005).

Honours and Awards

Agur A: was awarded the W.T. Aikens Faculty Teaching Award for individual teaching performance. June 2005. Anne also received the Recognition Award for Excellence in Teaching and Mentoring from the Department of Physical Therapy. June 2005.

Taylor I: was awarded the E. Mary Hollington Award for teaching with distinction in the undergraduate preclinical curriculum. June 2005.

The Anatomy Division received an Award of Special Recognition from the Sunnybrook-Osler Centre for Prehospital Care for outstanding contribution and commitment to paramedic education. June 2005.
**Publications**


**Invited Visits to Other Hospitals/Universities**


Research and Investigations

Senior Investigator’s Name Appears in Italics


Dr. P.A. Arnold - Assistant Professor (University Health Network)
Dr. J.C. Fallis - Assistant Professor (Hospital for Sick Children)
Dr. L. Fulton - Lecturer (Sunnybrook & Women’s College HSC)
Dr. B. McLellan - Associate Professor (Sunnybrook & Women’s College HSC)
Dr. S. Reicheld - Instructor (University Health Network)
Dr. D. Saslove - Instructor (St. Michael’s Hospital)
Dr. A.J. Baker - Assistant Professor (Anaesthesia)
Dr. B.V. Bapat - Associate Professor (Lab Med & Pathobiology)
Dr. A. Campbell - Assistant Professor (Medicine)
Dr. J. Carson - Assistant Professor (Family and Community Medicine)
Dr. A. Daar - Professor (Public Health Sciences)
Dr. A. Damyanovich - Assistant Professor (Medical Imaging)
Dr. J.E. Davies - Associate Professor (Dentistry)
Dr. A.M. Davis - Assistant Professor (Physical Therapy)
Dr. W.A. Demajo - Assistant Professor (Anaesthesia)
Dr. D. Depetrillo - Professor (Department of Obstetrics and Gynaecology)
Dr. F. DiCosmo - Associate Professor (Botany)
Dr. R.J. Eby - Lecturer (Medicine)
Dr. G.R. Fernie – Professor (Biomedical Engineering)
Dr. V.L. Fornasier - Professor (Laboratory and Pathobiology)
Dr. A. Fox - Professor (Department of Medical Imaging)
Dr. R. Gilbert - Associate Professor (Otolaryngology)
Dr. M. Greenberg - Associate Professor (Paediatrics)
Dr. M.D. Grynpas - Associate Professor (Laboratory Medicine and Pathobiology)
Dr. P.J. Gullane - Professor (Otolaryngology)
Dr. B. Harvey - Assistant Professor (Public Health Sciences)
Dr. J. Irish - Associate Professor (Department of Otolaryngology)
Dr. J. Irvine - Associate Professor (Psychiatry)
Dr. G. Jackowski - Assistant Professor (Laboratory Medicine and Pathobiology)
Dr. M.G. Johnston - Professor (Laboratory Medicine and Pathobiology)
Dr. W. Kucharczyk - Professor (Medical Imaging)
Dr. G.A. Levy - Professor (Medicine)
Dr. A. McDonald - Assistant Professor (Medicine)
Dr. D.A.G. Mickle - Professor (Laboratory Medicine and Pathobiology)
Dr. M. Milner - Professor (Rehabilitation Science)
Dr. W. Montanera - Assistant Professor (Medical Imaging)
Dr. S. Narod - Associate Professor (Public Health Sciences)
Dr. C.D. Naylor - Associate Professor (Medicine)
Dr. M. Ojha - Assistant Professor (Rehabilitation Sciences)
Dr. K.P.H. Pritzker - Professor (Laboratory Medicine and Pathobiology)
Dr. P. Ritvo - Assistant Professor (Public Health Sciences)
Dr. A. Romaschin - Associate Professor (Laboratory Medicine and Pathobiology)
Dr. B. Steinhart - Instructor (Medicine)
Dr. D. Stewart - Professor (Psychiatry)
Dr. K.G. terBrugge - Professor (Medical Imaging)
Dr. Q. Wan - Assistant Professor (Physiology)
Dr. I. Weller – Assistant Professor (Public Health Services)
Dr. R. Willinsky - Associate Professor (Medical Imaging)
Dr. G.J. Wilson - Professor (Laboratory Medicine and Pathobiology)
Dr. T.W. Wu - Professor (Laboratory Medicine and Pathobiology)