



# *UNIVERSITY OF TORONTO*

## *DEPARTMENT OF SURGERY*

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# R E P O R T F R O M T H E C H A I R

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

**I**t is hard to believe that as of October 2004, I will have served for two years as Chair of this Department. It has been an enriching experience, filled with challenges, surprises, worries and pride. My preference for making the complex decisions that need to be made in the Department is one of consensus building. In this regard, I continue to benefit from the wise council of our Department's senior executive. I am particularly grateful to them for their advice and support.

One of the essential features of any organization is to chart its course to develop its strategy. This year, we completed an eight-month process of strategic planning. We were fortunate to have Michael Jewett as Chair of our Strategic Planning committee. The document, entitled, *Breaking Through the Boundaries: 2004 - 2009 Strategic Plan* can be found at [http://www.surg.med.utoronto.ca/strategic\\_plan.html](http://www.surg.med.utoronto.ca/strategic_plan.html).

Our goals are bold and include: the development of a stable alternate funding plan for all surgeons; the exploitation of advances in technology in surgery; restructuring of residency education; a near doubling of our research funding; establishing the norm of interdisciplinarity in our teaching and research; developing a joint planning process for surgery in our academic health science centers and markedly enhancing our fund-raising efforts.

This past year, we lost three dear and respected colleagues. A mention of their passing does not do justice to the magnitude of their contributions. Suffice it to say, we will all miss and remember with respect and fondness, Carlton Smith, Robert Wilkinson and Mercer Rang.

It is customary to partition our departmental thinking into three classical activities, clinical care, teaching and research. However, I would like to begin this annual report by breaking from tradition and start by talking about politics. There are many issues on the

front burner today and it is critical, that as surgeons, we take an active part in that dialogue. The current governmental funding to hospitals is sub-optimal. We need to rebut the concept that there are great gains to be had by improving efficiencies in the hospital sector. All of us on the front lines know that the fat has been trimmed a long time ago. We have already taken a few bites out of valuable muscle and we are perilously close to infringing upon structural bone. It will be important for us to be vocal supporters of our hospitals and for the need to keep hospital funding at the forefront of our health care agenda.

The goal of achieving an alternate funding plan for surgeons is our main financial priority. While we have had some successes in a few disciplines, we are still in need of a comprehensive plan. I am deeply convinced that we must all pull together in this effort. There may well be strength in numbers. So much of our activities, both clinical and academic, are non-remunerated or under-remunerated. For a large and exciting department of surgery such as ours to continue to thrive, we will need a funding structure that rewards and acknowledges all of the important things that we do.

One of the structural changes being proposed for Ontario is the creation of Local Health Integration Networks or LHIN's. The themes being proposed include: 1) a reduction in wait times for important procedures. 2) improved access to family physicians and other members of the primary health care team. 3) enhanced long-term care and home care. 4) accessible community-based mental health. 5) a revitalized public health system. 6) a comprehensive child vaccination program. 7) reduced rates of tobacco use and childhood obesity. 8) a health care system that lives within Ontario's means.

While we certainly cannot argue with the themes being proposed with this restructuring, it does not take much reading between the lines to realize that

surgery cannot cure many of these stated societal priorities. As academic surgeons, we need to ensure that LHIN's incorporate into their mandate the concept of training the next generation of practitioners, the need for quaternary care surgery and the importance of discovery of new knowledge. It will be our special job as university surgeons to be as vocal as possible, about the need to preserve our academic mission.

We have recently entered into real dialogue promoting the notion of academic centers of excellence. We have started with arguably one of our toughest problems, vascular surgery. This past year we have been successful in encouraging the government to commission a report; that report has now been tabled and an implementation group is planning the details. Ostensibly, the plan is to focus vascular activity on two sites in our academic health science centers and develop in these sites, a critical mass of surgeons supported by adequate infrastructure.

Our research mission continues to flourish. Under Ori Rotstein's leadership, we continue to make great gains in the quality and quantity of the enterprise. Departmental funding for research continues to grow in excess of \$30 million, in external grants and contracts. The number of endowed research chairs keeps climbing, and we now have occupied, or soon to be occupied, 31 endowed chairs.

Our surgical-scientist program continues to flourish. What is extremely gratifying is that each year, this program takes on a new dimension. For example, this past year, one of our residents Alex Mihailovic, has currently been doing a PhD in International Health, in conjunction with the London School of Hygiene. She has just received a \$500,000 grant to study landmine injuries in northern Uganda.

We continue to make fund-raising a priority for the Department. Approximately 14 months ago, we hired Rebecca Davies, a professional advancement officer. I am thrilled to report that this investment is already paying off. In this past year, we have instantiated the Langer Chair in General Surgery; are 80% complete on accrual of funds for the Barkin Chair in Urological Research; have established the Tile Chair in Orthopaedics; have secured a permanent endowment in plastic surgery; have successfully matched a \$350,000 donation from Draxis to establish \$700,000 of endowed support for

the surgical-scientist program and have established the Carlton Smith endowment in Anatomy.

This year, the Provost has called for applications to a newly created \$30 million dollar initiative, known as the Academic Initiative Fund. The Faculty of Medicine received innumerable requests to put forward and three of our Department's initiatives, have been prioritized to proceed to the provostial level with an extremely large chance of success. One of these, the surgical skills laboratory initiative, is an important part of our present and a vital scaffold for our future. We have now secured an additional 3000 square feet of space, from Mount Sinai Hospital and will be able to fund the expansion through a combination of AIF funds and matching from industry.

Under John Bohnen's leadership, we have continued to flourish in the education arena. When we are all sitting on our porches in our rocking chairs, we will remember but a few accomplishments. Undoubtedly for many of us, the accomplishment of teaching tomorrow's surgeons will stand out as the most meaningful.

This year our medical school underwent a successful accreditation. Notwithstanding, this achievement, our educational leadership feels we need to have a critical look at how we teach both undergraduate students and residents. We can no longer cling to old ways and traditions, that may not be appropriate for a changing generation of surgical students. For example, plans are now underway for a revitalization of our clerkship, under the new leadership of David Backstein.

In summary, this has been an exciting two years as Chair of this great Department. I have received nothing but encouragement from the faculty and nothing but support for new initiatives. I have certainly worked harder than ever before but each moment is filled with important challenges and most importantly, I have learned a deep respect for the caliber of individuals in this Department.



# STRATEGIC PLAN

In recent years, members of the Department of Surgery at the University of Toronto have achieved great success in significantly increasing the amount of external peer-reviewed funding, and developing an internationally recognized Surgical Skills Centre, as well as attracting new funds to support academic activities, and thereby strengthening the size and breadth of its educational mission. Notwithstanding enormous achievements, the Department is also faced with a number of challenges arising – in large part – from changing pressures in the internal and external environments.

In December 2003, the Department of Surgery commenced a tactical planning process designed to gain a stronger understanding of the key issues impacting on the Department, as the basis for identifying strategic directions and priorities to be addressed over the next five years, from 2004 to 2009. Early in the process, there was agreement that the Department's vision, mission and values would be in modification of those of the Faculty of Medicine to reflect the Department's commitment to its vision.

The review of the external and internal environments and the interviews conducted as part of the strategic planning process provided a clearer perspective of some of the key issues impacting on the Department including:

- Blurring lines between surgery and other disciplines.
- Integrating advances in technology (molecular medicine, robotics, information technology) in teaching, research and clinical practice which requires greater collaboration outside of surgery.
- Continuing pressures to secure an alternate funding

plan for the Department as a vehicle for protecting clinical, academic and research mandates, and as a critical force for recruiting and retaining top calibre academic surgeons.

- Declining interest in surgery as a choice for young doctors, particularly women.
- Diminishing university resources, greater dependency on hospital resources and increasing pressure to secure new sources of revenue.

Based on the findings emerging from the strategic planning process, six strategic directions were confirmed to guide the future activities of the Department. These directions are aligned with the priorities identified in the University of Toronto planning document - Stepping Up: A Framework for Academic Planning and the priorities identified in the Faculty of Medicine's strategic plan (June 2000).

Specific goals and supporting strategies/actions were also identified to support advancement of the six strategic directions. Detailed tactics/actions were developed to advance these goals. These are articulated in the main text of the strategic plan and can be found on the Department's website at [http://www.surg.med.utoronto.ca/strategic\\_plan.html](http://www.surg.med.utoronto.ca/strategic_plan.html).

*Planning Framework for 2004-2009*

STRATEGIC DIRECTIONS	GOALS
<p>1. <i>Strengthen, support and renew faculty</i></p>	<p>1-1 Achieve an effective alternate funding plan for all surgeons across the Department.                      1-2 Attract new surgeons and nurture existing faculty within the Department.                      1-3 Develop a Departmental recruitment plan and focus on programs/divisions with particular recruitment concerns.                      1-4 Promote equitable well-functioning practice plans across all divisions.</p>
<p>2. <i>Enhance teaching and enrich the student experience</i></p>	<p>2-1 Exploit impacts and advances in technology on the practice and organization of surgery.                      2-2 Revitalize educational programs.                      2-3 Restructure and change paradigm of residency education.                      2-4 Recognize, reward and mentor clinical teachers.                      2-5 Demonstrate and profile international leadership role in education through innovative change.</p>
<p>3. <i>Enhance productivity and impact of research</i></p>	<p>3-1 Establish Toronto as the training ground of choice for surgical scientists.                      3-2 Increase research funding from \$27 million (2002/03) to \$44 million (2007/08).                      3-3 Establish molecular medicine training program.                      3-4 Strengthen health services research as a research priority.</p>
<p>4. <i>Promote inter-disciplinarity in research, teaching and clinical practice</i></p>	<p>4-1 Advance interdisciplinarity in research.                      4-2 Advance interdisciplinarity in teaching.                      4-3 Actively pursue collaboration with other surgically-related departments within the Faculty of Medicine.</p>
<p>5. <i>Maximize university-hospital relationships</i></p>	<p>5-1 Formalize joint planning with Department and TAHSC hospitals, with greater alignment of clinical, teaching and research priorities.                      5-2 Maximize relationships with teaching hospitals.                      5-3 Leverage opportunities for the Department to lead the development of new service delivery models and in the organization of clinical services.                      5-4 Expand clinical teaching faculty in partially affiliated hospitals.</p>
<p>6. <i>Explore and establish alternative sources of revenue</i></p>	<p>6-1 Increase alternative sources of revenue by \$5 million over the next five years.                      6-2 Enhance presence of the Department in the eyes of the Foundation(s) and among other key funding partners.</p>



## U N D E R G R A D U A T E E D U C A T I O N

*Dr. William Tucker - Director*

**D**uring the 2003-04 academic year, a number of changes were made in the organization of the administration of Undergraduate Education, in the Department. Dr. John Bohnen assumed the new position of Vice-Chair of Education, overseeing all aspects of the educational mandate of the Department. Dr. Ted Ross stepped down as Clerkship Director and was followed in that role by Dr. David Backstein. Dr. Bill Tucker completed his term as Director of Undergraduate Surgical Education at the end of the academic year and that position will be discontinued with the reorganization of educational administration. Dr. Tom Lindsay joined the Undergraduate Education Committee (UEC) as a representative from the University Health Network, where he is Surgery Clerkship Coordinator at the Toronto General Hospital.

Dr. Kenneth Pace, supervisor of the Phase II Clerkship OSCE and Dr. David Backstein, organized a very successful retreat the McLean Estate on April 23, to revise and augment our bank of OSCE test items. Dr. Pace also introduced, for the first time, an OSCE station to assess technical skills, as part of the Phase II examination. During this academic year the teaching of surgical skills to Phase 1 Clerks, was centralized to the Surgical Skills Centre at Mount Sinai Hospital and Dr. Backstein proposed increased time commitment for this instruction in future years.

Dr. John Murnaghan organized and led a Resident as Teacher Day, on July 11, 2003 and a New Faculty Day, held on October 2, 2003. These events were well-evaluated by the attendees and contribute significantly to faculty and resident development.

Dr. Peter Chu, of the Division of General Surgery at Sunnybrook and Women's College Health Sciences Centre, won the E. Bruce Tovee Award, for undergraduate teaching this year. Dr. Andrew Kader, a Urology resident, won the DR Wilson Award for teaching by residents. Dr. Patricia Stewart of the Division of Anatomy shared an Aikins award with Dr. Marika Hohol, of the Department of Medicine (Neurology), for development of the use of innovative instructional methods in the Brain and Behaviour course.

In May, 2004, the Faculty of Medicine underwent an Accreditation Review. Drs. Bohnen and Backstein represented the Department of Surgery and met with the accreditors. As a result and in common with other departments, Surgery did very well overall.

Finally, I would like to extend my sincere thanks to Drs. Wedge and Reznick, who supported me over the last eight years as Undergraduate Director and to Drs. Hamstra, Ross, Backstein and Bohnen, the staff at the Banting Institute and the student and faculty members of the UEC, who made my job pleasant and fulfilling.





# POSTGRADUATE EDUCATION

*Dr. John M.A. Bohnen,  
Vice-Chair, Education*

**T**he Department of Surgery's residents, fellows and faculty members contributed to another year of accomplishments, challenges and milestones in 2003-2004.

Surgery entry level programs filled all of our first year positions in July 2003, through the Canadian resident match. In 2003-2004, 213 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 fellowship programs). In addition to those residency positions, 166 clinical fellows and 29 elective residents came from many countries to seek further clinical training. Our Thoracic Surgery program has been changed back to a specialty level program by the Royal College of Physicians and Surgeons of Canada (RCPSC), no longer taking residents in their first year of training. Thirty residents received research training within the Surgeon Scientist Program, led by Dr. Ori Rotstein.

Residents finishing Core Surgery (years one and two) and senior residents were highly successful in RCPSC in-training and fellowship exams. Twenty-five of 28 residents passed their Royal College fellowship examinations.

Surgery residents participated in numerous educational offerings that complemented their involvement in patient care. Besides the large number of specialty sessions provided by the surgical faculty in each division, the department sponsors educational series and events 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 and POS lecturers have created around the lectures and from the surgical literature. Twice yearly, Core Surgery

residents participate in the Residents' Forum, in which they give feedback to Dr. Stan Hamstra and me about issues such as work conditions. On July 11, 2003, Core Surgery residents attended the annual half-day program "The Surgeon in Society;" this year's theme was risk management and its relation to surgical education. First year residents attended in July, an orientation day that provided them a chance to meet education providers in a relaxed setting with good food, the most valued resident attractant. 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 was rated highly by residents and 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.

The divisional Program Directors do an outstanding job taking care of their residents' needs and organizing divisional educational and social events. Thanks for a great year to: Drs. 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 tireless 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. Ted Ross won the Tovee Postgraduate Award for sustained, outstanding contributions to postgraduate training and Dr. Andrew Kader, won the D. R. Wilson Education Prize for outstanding teaching of medical students by a surgical resident. Congratulations to both for these significant accomplishments.

In September of 2003, our department joined others in engaging staff and residents in online evaluations of residents and teachers, sponsored by the faculty Postgraduate Medicine office. We encountered challenges and glitches, found causes and solutions, and enter the 2004-2005 year with expectations that the system will run more smoothly. We thank the Program Directors, their assistants, teachers and residents for their patience in this start-up year.

The department's education offices have undergone changes this year. The Postgraduate office has merged with the Undergraduate Education office in January 2004 and moved into new quarters on the second floor of the Banting Institute. Undergraduate portfolios have changed but in postgraduate education, I continue as Director, and have assumed the role of departmental Vice Chair, Education.

Two of our divisions have undergone reviews this year. In a five year review of the Neurosurgery division, their educational programs were commended under the leadership of Dr. Chris Wallace and Division Chair, Dr. Jim Rutka. General Surgery came under review as a result of four residents leaving the program this year. This situation is not isolated to Toronto: a disappointing incidence of attrition from General Surgery programs, has occurred across North America over the last few years. A proactive approach this year has brought an outside review, the recommendations of which are not available as

of this writing. Division and department leaders are committed to consider the findings of the review and work to reverse this trend.

Residents, fellows and surgeon-teachers have received outstanding help from the administrative support team of Tess Weber, Miriam Rotman and Jean DeFazio. We look forward to another great year in 2004-2005!



## R E S E A R C H

*Dr. Ori D. Rotstein,  
Vice Chair, Research*

Research successes exceeded expectations over the past year in the Department of Surgery. The total research funding by the Department exceeded \$30,000,000 million, as faculty grant accrual continued to rise. It's been a phenomenal year for the Surgeon-Scientist Program (SSP). It continues to be a well-recognized program internationally, providing surgical residents with superb opportunities for research training within outstanding research groups. This past year seven new residents entered the SSP, giving the Program 16 MSc, 3 MEd, and 12 PhD candidates, involved in full-time research. They were recognized not only locally and nationally, but internationally, as well. This was confirmed by their outstanding publications in the highest quality peer-reviewed journals, as well as their success in obtaining grants and awards. This past year, over 95% of our SSPs, were successful in receiving full or partial salary support from external granting agencies. The Johnson & Johnson Medical Products Surgeon-Scientist Fellowship program's fourth year of commitment, allowed us to support four SSPs. These were Dr. Karen Cross (supervisors: Drs. Joel Fish & John Semple), Dr. Alexandra Mihailovic (supervisor: Dr. Andrew Howard), Dr. Danny Ramzy (supervisors: Drs. Vivek Rao & Terry Yau) and Dr. Jay Riva-Cambrin (supervisor: Dr. James Drake).

The 30<sup>th</sup> Gallie Day, featured the research work of 12 of our Surgeon-Scientist Program residents in the Annual Gallie-Bateman competition. There was a tie for first prize, with awards going to Dr. Shafie Fazel (supervisors: Drs. Richard Weisel and Ren-Ke Li) and Dr. Rachel Khadaroo (supervisor: Dr. O.D. Rotstein). The 2<sup>nd</sup> prize awardee was Dr. Babak S. Jahromi (supervisor: Dr. R. Loch Macdonald). Dr. Babak returned to the University of Toronto, after his SSP PhD training at the University of Chicago Medical Center, Illinois. The third Annual Gallie Bateman Poster Competition took place on the day prior to the Gallie Day celebrations and featured a total of 34 posters from students, fellows and post-doctoral students, from across the Department. Two prizes were awarded: the McMurrich Award (basic science) and the Wyeth-Ayerst Award (Health Services and Education research). This year three McMurrich awards were presented to: 1<sup>st</sup> prize to Dr. Minna Kim (supervisor: Dr. Cindi Morshead), 2<sup>nd</sup> prize to Dr. Giuseppe Papia (supervisor: Dr. Ori D. Rotstein), 3<sup>rd</sup> prize to Dr. David J. Santone (supervisor: Dr. Thomas F. Lindsay). The Wyeth-Ayerst Award was won by Dr. Sarah Woodrow (supervisor: Dr. Stanley Hamstra).

Again this year, faculty accomplishments were extraordinary. Over 10 new grants were awarded by the Canadian Institutes

of Health Research. The Premier's Research Excellence Award (PREA), designed to assist gifted researchers, was awarded to deserving researchers including Drs. Benjamin Alman, Lori Burrows and Andras Kapus. Our new Faculty members were recognized through their receipt of local competitive University grants including the Connaught New Staff Matching Award (Drs. Michael Borger, Cindi Morshead, Robert Nam) and the Dean's Fund Competition for New Staff (Drs. Michael Borger, Adam Dubrowski, Alexandra Easson, Peter Ferguson, Kenneth Pace, Vasundara Venkateswaran and Paul Wales). Over a dozen SSP residents and faculty received Physicians' Services Incorporated (PSI) Foundation grants. This year's Bernard Langer Surgeon-Scientist Award recipient, given to the most outstanding graduate of the Surgeon-Scientist Program, was Dr. David Urbach. Dr. Robin McLeod was recognized for her contributions to the Department by being awarded the Charles H. Tator Surgeon-Scientist Mentoring Award. This award recognizes Robin's excellence in research and commitment to the SSP mentoring and dedication to the promotion of Surgeon-Scientists. This past year, the Armstrong-Peters Prize for young investigators was awarded to Dr. Thomas Waddell, while Dr. Andres Lozano was honoured with the Lister Prize for senior investigators.

The Departmental Research Committee continued its work on developing a mentoring program for young faculty and defining the role of non-clinician scientists in the Department of Surgery. A non-clinician scientist continues to be highlighted in the monthly Department of Surgery Newsletter. The Committee also participated in the preparation of this year's Gallie Day program highlighting surgeon-scientist presentations, and a symposium in International Surgery organized by Dr. Massey Beveridge. This year's Gordon Murray Lecturer, Dr. Shafique Pirani, Associate Professor, Department of Orthopaedics, University of British Columbia highlighted the issues in his plenary lecture addressing orthopaedic care in Uganda.

Finally, we thank Val Cabral for her coordination of all aspects of the Departmental research activities.

In summary, this has been a stellar year for research in the Department of Surgery. We should continue to take great pride in the breadth and depth of our research accomplishments, while remaining cognizant of the importance of future research innovation as a means of providing excellence in patient care.



## DIVISION OF CARDIAC SURGERY

*Dr. R. Weisel - Chair*

**T**he Division of Cardiac Surgery has continued to focus on academic achievement as well as providing outstanding cardiac surgical results for the population of Central Ontario.

### *Clinical*

The opening of cardiac surgical programs at three community hospitals in the Greater Toronto Area reduced the waiting list and increased the risk profile of patients referred for cardiac surgery at the University of Toronto affiliated institutions. After an initial decrease in the number of surgical procedures, a rebound and plateau has been achieved so that the number of procedures at the four institutions is expected to remain stable for the next few years.

### *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. Again this year, the Program Committee selected its first choice for our one resident position, Dr. Mitesh Badiwala.

Dr. Paul Fedak was awarded the Paul Cartier Award from the Canadian Society of Cardiac Surgery and was a co-investigator on a successful Heart Foundation grant.

Dr. Subodh Verma received the Young Investigator Award from the American College of Cardiology and was a co-investigator on a second grant award.

Dr. Shafie Fazel was awarded the Gallie Bateman Prize and was a co-investigator on a Heart Foundation and CIHR grant awards.

Drs. Gilbert Tang, Mohamed Albanna and Veena Guru all received PSI grants.

Dr. Mark Peterson was awarded the Caves Prize

from the International Society for Heart and Lung Transplantation.

Drs. Nimesh Desai and Michael Lekas received Research Fellowships and join Drs. Fazel and Guru in the Cardiovascular Trainee Mentoring Program (TACTICS).

The residents participated in the four Coach House Seminars and the visits of two Professors, Dr. David Adams of New York and Professor Sir Magdi Yacoub from London, England.

### *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 Science Centre*

The Cardiovascular Surgical Division continues to lead the country in clinical trials. Drs. Stephen Fremes and George Christakis have excelled in carefully addressing critical issues facing cardiac surgeons. The radial artery trial received funding to continue follow-up of patients operated on at centres across the country. Dr. Nimesh Desai is completing his PhD program investigating new technologies for cardiac surgery. Dr. Veena Guru is completing her PhD program working with Dr. Jack Tu and the scientists at the Institute for Evaluative Sciences. 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. Christakis was promoted to Professor of Surgery. Dr. Bernard Goldman continues as the editor of the Journal of Cardiac Surgery and is

nearing completion of his history of cardiac surgery in Canada.

#### *St. Michael's Hospital*

Dr. Lee Errett and his colleagues continue to provide outstanding clinical outcomes in complex cardiac surgical procedures. The group is continuing recruitment of patients in 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 center for off pump surgery in Canada. Dr. Mary Keith joined the Division of Cardiovascular Surgery and has continued the Division's interest in nutritional preconditioning to improve outcomes. All Canadian Cardiac Surgical Residents attended the Donnelly Day this spring, sponsored by St. Michael's Hospital and they heard Dr. Tirone David discuss pathways to enlightenment.

#### *Toronto General Hospital*

Dr. Tirone David was appointed a University Professor for his continued innovation in valvular heart surgery and his contributions to the education of cardiac surgeons around the world. In addition, he became the President of the American Association for Thoracic Surgery, the leading academic development of the specialty. Dr. Michael Borger instituted a program in minimally invasive valve surgery with Dr. David's assistance. He received funding to continue his clinical investigations into techniques to prevent brain injury during cardiac surgery. Dr. Joan Ivanov received funding to continue her investigations into the predictors of morbidity and mortality after surgery.

Dr. Viv Rao became the principle investigator of the NIH funded STICH trial comparing ventricular remodeling surgery, to coronary bypass alone or medical therapy for patients with heart failure. Dr. Rao and Dr. Heather Ross continued to provide a unique service to the community with the left ventricular assist program. Drs. Rao and Feindel 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. He also received additional funding for his insulin cardioplegia trial.

Dr. Ren-Ke Li received numerous awards as the

initiator of the new field of cell transplantation. Working with Drs. Subodh Verma, Paul Fedak and Shafie Fazel, Dr. Li continues to receive an unprecedented number of peer-reviewed grants for his innovative basic science research.

#### *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. The outcomes remain outstanding and 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 a leading academic and innovative centre in the world. The focus of the Division is to provide outstanding outcomes and to excel at academic productivity.



# DIVISION OF GENERAL SURGERY

*Dr. Zane Cohen - Langer Chair*

## *Resident Training*

**E**leven new PGY-1 residents and two APIMG residents, one from Egypt, and the other from Lebanon were accepted into our general surgical program, for the academic year 2003-2004. Unfortunately, during the year, three of our PGY-1 residents and one of our PGY-3 residents left our general surgical program, namely for issues related to work-load and quality of life. We are taking this issue extremely seriously in our general surgical division and are awaiting the report of the external review of our residency program, by Dr. Stephen Evans. Although, overall the general surgical residency training program at the University of Toronto is exceptional in its depth and breadth, issues remain which must be addressed and the way in which we do our business must also change. These will be the top priorities for our Inter-hospital Coordinating Committee and Postgraduate Education Committee for the next few years. The following general surgical residents were successful in completing the General Surgical Training Program for 2003-2004. They are: Drs. Richard Bloomberg, Andrew Burns, Erin Kennedy and Mylene Ward. The residents engaged in full time research in the Surgeon-Scientist Program during the 2003-2004 year were: Drs. Tracey Asano, Anand Ghanekar, Veena Guru, Michael Ko, Danny Ramzy and Alexandra Mihailovic.

## *Promotions*

During this academic year the following were promoted. To Assistant Professor, Dr. Paul Bernick; to Associate Professor: Dr. Sherif Hanna and to Full Professor Dr. David McCready. We congratulate those who were promoted for their superior efforts, that have now been recognized in a concrete way.

## *New Faculty*

During the academic year 2003-2004, new faculty included: Dr. Jaime Escallon to Mount Sinai Hospital and UHN, Dr. Wey Leong to University Health

Network/Mount Sinai Hospital, Dr. Ian McGilvray to University Health Network, Dr. Michael Reedjik to University Health Network and Dr. Frances Wright to Sunnybrook and Women's College Health Science Centre.

## *Honours, Awards and Appointments*

Our surgical residents, particularly those in the Surgeon-Scientist Program were extremely successful in their grant capture as well as overall in their academic productivity. Dr. Anand Ghanekar – Chisholm-Memorial Fellowship, the William-Cron and Jean Harris Memorial Fellowship by the Postgraduate Medical Education Committee and the Canadian Research Award for Specialty Residents from the Royal College of Physicians and Surgeons of Canada, and CIHR. Dr. Rachel Khadaroo – Chisholm-Memorial Fellowship, Edward-Christie Stevens Fellowship and the Time Posters awarded by the Postgraduate Medical Education Committee, 1<sup>st</sup> prize in the Basic Science section in the Trauma Resident Papers Competition at the American College of Surgeons on Trauma, SIS and CIHR awards and 1<sup>st</sup> prize winner at the Gallie-Bateman Research Presentations in May 2004. Dr. Kouros Moozar – Joseph M Family West Memorial Fund awarded by the Postgraduate Medicine Awards Committee. Dr. Giuseppe Papia – 2<sup>nd</sup> prize McMurrich Award at the Gallie-Bateman Poster Session Competition. Dr. Kinga Powers – William S. Fenwick Fellowship by the Postgraduate Medical Education Committee and the American College of Surgeons Scholarship, CIHR and CIDS. Drs. Peter Stotland and Mark Walsh each won a Paddy Lewis Award for Excellence in Teaching. Dr. Tracey Asano – Awarded the National Cancer Institute of Canada Grant. Dr. Veena Guru – CIHR and PSI Grant. Dr. Michael Ko – OSOTF-Gifford Scholarship. Dr. Danny Ramzy – Rigby/Wedge Scholarship University of Toronto and OGSSST award. Our faculty were extremely successful in grant capture and these included: Drs. John Bohnen, John Marshall and Mark Cattral each of whom received CIHR grants. In addition, Mark Cattral received an NIH grant. Dr. Alexandra Easson

received a PSI grant, Dean's Fund grant and a grant from the American College of Surgeons. Dr. Steven Gallinger received a Lustgarten Foundation for Pancreatic Cancer Research grant, NCI/NIH grant, Ontario Cancer Research Network grant, NIH and CIHR grants. Dr. Stan Hamstra - NSERC grant. Dr. Andras Kapus - CIHR and NSERC grants. Dr. Peter Kim - CIHR and March of Dimes Birth Defects Foundation and Hospital for Sick Childrens Foundation. Dr. Wey Leong - Canadian Breast Cancer Research Alliance. Dr. Fred Brenneman - Department of National Defense Research Program and Quality of Life Grant. Dr. Lavina Lickley - Bennett Family Foundation grant. Dr. Andrea McCart - Miller Cancer Research grant. Drs. Ian McGilvray, Robin McLeod and Ori Rotstein each received CIHR grants. In addition, PSI grants and DCIEM grants were obtained by Drs. Ian McGilvray and Ori Rotstein respectively. Dr. David Urbach - Ministry of Health and Long Term Care grants. Dr. Paul Wales - University of Toronto Dean's Funds and Dr. Frances Wright - Canadian Breast Cancer Foundation Grant. This represents an exceptional amount of research productivity from our faculty. Our faculty received the following honours and awards. Dr. Jameel Ali - Trauma Achievement Award of the American College of Surgeons; Dr. Paul Bernick - J. Fowler Excellence in Teaching Award; Dr. Zane Cohen - Mentor Award from the American Society of Colon and Rectal Surgeons; Dr. Paul Greig - Frank Mills Award for Excellence in Teaching; Dr. Robin McLeod - 2004 Charles H. Tator Surgeon-Scientist Mentoring Award and President of the Canadian Association of General Surgeons; Dr. Ted Ross - 2004 Tovee Award for Postgraduate Teaching. Dr. David Urbach - 2004 Bernard Langer Surgeon-Scientist Award; Dr. Andy Smith - Peters-Boyd Academy Teaching Award for Excellence in Innovation and Continuing Education. Dr. Calvin Law - Peters-Boyd Academy Teaching Award for Clinical Teaching in Undergraduate Education; Dr. Ori Rotstein - Elected Governor of the American College of Surgeons for the Province of Ontario.

### *Events*

One of the major events of the year was the announcement of the Dr. Bernard and Ryna Langer Endowed Chair for the Chairman of the Division of General Surgery, at the University of Toronto. Through the matching fund program at the University, the entire general surgical division has already raised more than \$850,000 for the development of the chair, during the past four years and by the end of this calendar year, we will have raised an additional \$200,000. The total of over 1 million dollars raised by our general surgical faculty, is recognized by the

university development office as the largest and most successful fund-raising campaign, by a faculty group in the University's history. I wish to thank every member of our general surgical division for their contributions and support for this project and I know that every member of our general surgical staff can take enormous pride in this achievement. Following on, through a committee of general surgeons, friends of Dr. Langer, grateful patients and various generous philanthropists, we have raised over 2 million dollars, enough that on May 27, the university held a special event to officially announce this chair. This is a great achievement for our division to finally have a chair endowed in perpetuity. The endowment money generated by this chair, will be used for recruitment of faculty, building our division's profile, visiting academics, bridge funding for research and a wide range of other academic activities.

The 44<sup>th</sup> Annual Update Course for General Surgeons and Residents, was held on April 15-17, 2004. There was a record turn out of over 400 registrants. The guest lecturer was Dr. Jeffrey Milsom and over 90% of our general surgical faculty presented at that major CME event. All of our general surgical staff were evaluated extremely highly as was the entire meeting. This coming year the Surgical Oncology Network Symposium, will also come under the edges of our general surgical division and we therefore look forward to having CME events on an annual basis, in the fall and in the spring.

Our premier academic event of the year is the Annual Assembly for General Surgeons and Residents. This took place again in June of 2004. The Tovee Lecturer on that day was Dr. David Wesson, who did an outstanding job in his presentations and distributing awards for the best papers and posters to Drs. Anand Ghanekar, Giuseppe Papia and Andrew Dueck.

Again, I would state that these are but a few highlights, for this truly great division of general surgery. We have much of which to be proud from our accomplishments but we will definitely not rest on our laurels. There is much work to be done particularly in the areas of resident education, fellowship guidelines, an improvement in our visiting professor program, continuing to improve our university/hospital relationships and expanding our surgical skills centre. Along with our divisional members, I look forward to working on these challenges.



# D I V I S I O N O F N E U R O S U R G E R Y

*Dr. James T. Rutka  
Dan Family Chair*

## *Resident Achievements*

### *Royal College Examinations:*

**F**ellows of the Royal College of Physicians and Surgeons of Canada (FRCSC): Drs. Ashtosh Singhal and Julian Spears.

### *Resident Research Awards (International/National):*

Several residents received externally funded fellowships and awards during the year:

Dr. Karim Mukhida: travel grant for an elective in Nepal; CNS Margot Anderson Foundation Fellowship in Brain Restoration Research from the Congress of Neurological Surgery.

Dr. Gelareh Zadeh: Resident Research Award, American Academy of Neurological Surgery; Henry A. Beatty Award.

Dr. Charles Matouk: Three year joint HSF of Canada/Pharma Research Postdoctoral Fellowship.

Dr. Julian Spears: Merck Frosst/Heart and Stroke Foundation of Canada (HSFC) Fellowship Award.

Dr. Jay Riva-Cambrin: J & J Medical Products-Surgeon Scientist Program Fellowship; 1 year grant from The Physicians' Services Incorporated Foundation; Government of Ontario/Wellesley Surgeons Graduate Scholarship in Science and Technology; Claire Bombardier Award in Clinical Epidemiology.

Dr. Sarah Woodrow: Two year Royal College of Physicians and Surgeons of Canada Fellowship in Medical Education; PSI Grant.

Dr. Babak Jahromi: KG McKenzie Basic Neuroscience Research Award.

Dr. Sheila Singh: 2 year MD-PhD Fellowship from the American Brain Tumor Association; Young Investigator Award for Basic Science, Canadian Neuro-Oncology; NCIC MD-PhD Fellowship; KKG Scholarship for a Canadian Woman Pursuing PhD Studies; Canadian Brain Tumor Consortium Young Investigator Award.

Dr. Michael Taylor: 2004 Peter A. Steck Memorial Award, MD Anderson Cancer Center; CIHR Clinical Scientist

Award.

### *Resident Research Awards (University of Toronto):*

Dr. Cian O'Kelly: 2004 Alan Hudson Resident Teaching Award.

Dr. Jay Riva-Cambrin: 2004 Warren Ho Humanitarian Scholarship Award.

Dr. Eve Tsai: Successfully defended her PhD under mentorship of Dr Charles Tator.

Dr. Sarah Woodrow: John L. Provan Fellowship in Surgical Education; Wyeth Award.

Dr. Charles Matouk: Joseph M. Family West Memorial Fund; Ellen Epstein Rykov Memorial Prize.

Dr. Mel Boulton: Wightman-Berris Academy Teaching Award, UHN.

Dr. Paul Kongkham: Two year Medical Scientist Training Fellowship, McLaughlin Centre for Molecular Medicine.

Dr. Sheila Singh: Morley Prize, honorable mention; U. of T. Mitchell Scholarship, Life Sciences Department.

Dr. Julian Spears: William J. Horsey 1<sup>st</sup> Prize Recipient.

Dr. Cian O'Kelly: William J. Horsey 2<sup>nd</sup> Prize Recipient.

Dr. Babak Jahromi: Morley prize, 1<sup>st</sup> place award; Runner-up, Gallie-Bateman Resident Research Award, Runner up.

Dr. Bradley Jacobs: Morley prize, 2<sup>nd</sup> place award.

### *Faculty Achievements*

#### *Awards*

Dr. Farhad Pirouzmand: PAIRS 2003 Excellence in Teaching Award from the University of Saskatchewan; Principal Investigator for a multicentre project "PRECISE" at Sunnybrook and Women's College Health Science Centre.

Dr. Michael Fehlings: Member, Ontario Neurotrauma Research Advisory Panel; 3 year renewal grant from the Canadian Institutes of Health Research; Member, Canadian



Institutes of Health Research Neurosciences A Grants Committee; North American Spine Society Research Grant Award; 1 year grant from the Cervical Spine Research Society; McLaughlin Scholar, R. Samuel McLaughlin Centre for Molecular Medicine; Editorial Board, Journal of Neurosurgery; Member, External Advisory Board for The Miami Project to Cure Paralysis; member, Science Advisory Council, Christopher Reeve Paralysis Foundation (CRPF); Member, Advisory Group, Medical Technology Innovation Taskforce, UHN; Neurocritical Care Prize, Canadian Congress of Neurological Sciences; Award of Merit in Basic Science, 2004 Heart and Stroke Clinical Update Meeting.

Dr. Jim Drake: Harold J. Hoffman/Shoppers Drug Mart Chair.

Dr. Richard Perrin: Nomination to the position of Secretary of the World Federation of Neurosurgical Societies.

Dr. Ab Guha: 3 year NCIC grant.

Dr. Jim Rutka: Scientific Program Chair, 2005 AANS Annual Meeting; Ronald L. Bittner Lecturer, 2004 AANS Meeting; Grass Award, Society of Neurological Surgeons; Re-appointed Chairman, Division of Neurosurgery, U. of T. for another 5 year term.

Dr. Charles Tator: Inducted into the Terry Fox Hall of Fame; PSI grant; appointed the Robert Campeau Family Foundation Chair Emeritus, 1 year; 4 year CIHR with Molly Shoichet.

Dr. Michael Tymianski: 2 5 year CIHR grants; NIH grant.

Dr. Michael Cusimano: Member, Nucleus Group Specialty Committee in Neurosurgery, Royal College of Physicians and Surgeons of Canada; 3 year CIHR grant.

Dr. Karen Davis: 1 year grant, AstraZeneca/ U. of T. Centre for the Study of Pain; Editorial Board, Journal of Neurophysiology.

Dr. Mark Bernstein: Masters of Health Science in Bioethics, U. of T.; Bioethics Columnist for The National Review of Medicine; CIHR grant.

Dr. Chris Wallace: Member, Nominating Committee of the WFNS; Member, American Academy of Neurological Surgery.

Dr. Peter Dirks: Appointed as the Young Neurosurgeon's Liason to the World Federation of Neurosurgical Societies' (WFNS) Neuro-oncology Committee; 3 year NCIC grant; one of Canada's Top 40 Under 40 award.

Dr. Andres Lozano: Lister Prize, Department of Surgery, U. of T.

Dr. Taufik Valiante: Clinician Scientist Phase I Award, Canadian Institutes of Health Research (CIHR).

Dr. Robert Elgie: Invested into the Order of Canada.

#### *U. of T. Neurosurgery Lectureships*

Botterell – Dr. Gary Steinberg, Stanford University.

Keith – Dr. David Roberts, Dartmouth University.

Hendrick – Dr. Jerry Oakes, Children's Hospital at the University of Alabama.

Lougheed – Dr. Chandranath Sen, St. Luke's-Roosevelt Hospital Center, New York; and Harland-Smith - Dr. Vinko Dolenc, University Medical Center, Ljubljana, Slovenia.

#### City-Wide Rounds:

Sunnybrook and Women's College Health Sciences Centre, Dr. Jean Regis, Marseilles Faculty of Medicine.

St. Michael's Hospital, Dr. Ossama Al-Mefty, University of Arkansas, Little Rock.

The Hospital for Sick Children, Dr. Leland Albright, University of Pittsburgh.

Toronto Western Hospital, Dr. Ziya Gokaslan, Johns Hopkins University.

Toronto Western Hospital, Dr. Jan Goffin, Catholic University of Leuven.

#### *New Faculty Recruits*

Dr. Howard Ginsberg – St. Michael's Hospital

Dr. Michael Taylor – The Hospital for Sick Children

Dr. Moji Hodaie – Toronto Western Hospital

Publications by neurosurgery faculty and residents: 129

Visiting Professorships by U of T Faculty: 74



# D I V I S I O N   O F O R T H O P A E D I C S U R G E R Y

*Dr. James P. Waddell  
A.J. Latner Professor & Chair*

The past year has brought a number of changes to the Orthopaedic Division at the University of Toronto. The focus by government on waiting lists for both diagnostic and surgical procedures has been largely on musculoskeletal disease. This has led to increasing pressure on orthopaedic surgeons both in academic practice as well as community practice, to increase the volume of clinical work to meet these demands.

The major focus by the Ministry of Health and Long Term Care has been on hip and knee replacement surgery. The easy answer to this problem is to suspend or diminish other orthopaedic surgical activity and divert the resources once used for knee ligament reconstruction or foot and ankle surgery, for example, to patients requiring hip or knee replacement surgery. This tendency has been resisted by the Division since the waiting lists for all types of orthopaedic surgery are long, even though the waiting lists for hip and knee replacement surgery have received most publicity.

These pressures have been felt uniformly throughout the Orthopaedic Division in all of the affiliated hospitals at the University. In order to address these problems TAHSOC has set up a committee to look at hip and knee replacement surgery and how this increased demand can be met without disrupting clinical care, research and teaching. The recommendations of this committee will be put forward to TAHSOC and then to the Ministry of Health; hopefully this will allow us to continue to meet all of the clinical and academic obligations of the University.

We have had an excellent year from an academic perspective in the Division. Peer-reviewed publications exceeded the previous year and peer review grants also improved. I am delighted to say that this is the eighth consecutive year in which there has been an improvement in both publications

and peer reviewed grants.

There were many visitors to the Division in the past academic year. The highlight was the 2003 Kennedy Visiting Professor, Dr. Henry H. Bohlman, Professor of Orthopaedic Surgery, Case Western Reserve University School of Medicine from Cleveland, Ohio. Dr. Bohlman's clinical interest is in spine care and he provided excellent teaching for the residents over the two days of the Kennedy Visiting Professorship.

The Basic Science Visiting Professor was Dr. Cato Laurencin from the University of Virginia. He is a recognized expert in cell signaling and cell biology and contributed tremendously to our research day.

The Austrian, Swiss, German Traveling Fellows visited us for two days visiting the hospitals affiliated with the University of Toronto and presenting their work to the residents at the weekly academic half-day. We were also fortunate to have the ABC Traveling Fellows visit; a number of them visited different teaching units and laboratories; they also presented their work at an academic half-day which was organized in their honour.

Individual members of the faculty singled out for excellence included Ben Alman who was awarded a \$25,000.00 scholarship entitled the "Arthur H. Huene Memorial Award" by the Paediatric Orthopaedic Society of North America. Michael McKee was recognized by the Orthopaedic Trauma Association receiving the Bovill Award for the best paper presented at the OTA in two consecutive years – I don't think anyone in the OTA has ever had this honour. A number of members of our Division were elected to the American Orthopaedic Association including Dr. Nizar Mahomed, Dr. Michael McKee and Dr. Jay Wunder. Robin Richards was appointed Vice-Chair of the Department of Surgery for Clinical

Affairs.

David Backstein was appointed the Director of the Surgical Clerkship at the University of Toronto, Department of Surgery in January of 2004. We have already noticed the difference.

Bill Kraemer was chosen by the Residents for the R.B. Salter Award for the outstanding resident teacher for 2003-2004.

Three of our regular CPD courses were held this year. The Foot & Ankle Symposium in April 2004 attracted over 250 participants; the 20<sup>th</sup> Annual Upper Extremity Update was held again with a record crowd in attendance and the Biennial Pelvis and Acetabular Course was sold out. Excellent work by all the members of the Division in the CME area.

The second year medical student initiative was held again this year. It was suspended last year because of SARS; this year we therefore accepted more students than usual. All the students felt that the opportunity given to them to learn more about orthopaedic surgery would be very valuable in selecting their elective options in Year III and IV.

We have also added a new initiative to the Undergraduate Training Program. This is a junior resident orientation program run by Jim Wright from the Hospital for Sick Children and is specifically directed to first and second year residents, to ensure that their transition from medical school to residency is smooth and issues specific to the junior(s) year, with regard to rotation and workload can be met independent of the concerns of the more senior residents.

We had three members leave the Division of Orthopaedic Surgery in the past year. Dr. Robert McBroom left St. Michael's Hospital to continue his career in spine surgery in the community; Dr. Tony Miniaci left the Toronto Western Hospital to work in the Cleveland Clinic. We would like to take this opportunity to thank both of them for their tremendous contributions to the Division of Orthopaedic Surgery over the past many years. Finally, Dr. David Hastings has retired from active practice. Dave has had a long and distinguished

career in academic orthopaedic surgery; he did his residency training in Toronto and took up a staff position at the Wellesley Hospital upon completion of his training. He moved his practice to St. Michael's Hospital with the merger of the two institutions. Dave has elected to end his practice on a high note and his farewell party at St. Michael's Hospital was attended by many of his friends from the old Wellesley Hospital as well as the new St. Michael's Hospital. Dave has made a significant and lasting contribution to orthopaedic surgery in Canada and the University of Toronto has always been fortunate to be associated with him.



## D I V I S I O N O F P L A S T I C S U R G E R Y

*Dr. Peter Neligan  
Wharton Chair in Reconstructive Plastic Surgery*

**W**e were very pleased to welcome Dr. Linda Dvali who joined the faculty this past year. Dr. Dvali is a graduate of the U of T Training Program and subsequently did a clinical fellowship with Dr. Susan Mackinnon in St. Louis followed by a Master's in clinical epidemiology at Harvard. She joined the staff of the Hand Program at the Toronto Western Hospital in September, 2003. Dr. Robert Cartotto was promoted to the rank of Associate Professor effective July 1, 2004 and Dr. David Fisher was promoted to Assistant Professor.

The Annual Meeting of the American Society of Reconstructive Microsurgery was held in Palm Springs, CA, in January, 2004. Dr. Ronald Zuker was President of this Society for 2003-04 and presided over the meeting. The keynote lecture was delivered by Dr. Ralph Manktelow. Dr. Peter Neligan was elected to the Board of the ASRM during that meeting.

At the Annual Meeting of the North American Skull Base Society in New Orleans in February, Dr. Peter Neligan was elected to the Board of the Society. He was also appointed as co-chair of the Program Committee for next year's meeting which will be held in Toronto in April.

Dr. Karen Cross (Postgraduate Medical Trainee, supervisor, Dr. Joel Fish, Department of Surgery) received the Wound Healing Society's Young Investigator Award for her research project "Determination of Burn Depth Using Near Infrared Spectroscopy". She received the award at the Society's Annual Meeting in Atlanta, Georgia in March of this year.

The Hoyle Campbell Visiting Professor this year was Mr. David Evans. Mr. Evans is a hand surgeon from London, England and visited the Division on March 25<sup>th</sup> and 26<sup>th</sup>. He also presided over our Resident Research Presentations. The best research paper award was given to Dr. Cory Goldberg (supervisor Dr. Jeff Fialkov) and the best clinical paper award went to Brent Howley. The Mentor Scholarship was awarded to Dr. Karen Cross. Dr. Christopher Forrest won the WK Lindsay Award for research mentoring and Dr. Joan Lipa won the Arnis Freiberg award for best teacher in the Division.

The American Burn Association Meeting was held in Vancouver, B.C. in March of this year. Julia Haber (a medical student from Queen's) won the Carl A. Moyer Award for work she had done under the supervision of Dr. Robert Cartotto at the Ross Tilley Burn Centre in Sunnybrook and Women's College Health Science Centre.

We had further success at the Annual Meeting of the Canadian Society of Plastic Surgeons when Cory Goldberg, once again, won the best research paper award.

The Plastic Surgery Research Council was held in Ann Arbor, Michigan and Dr. Christopher Forrest was this year's Program Chairman. Next year, Dr. Forrest will host this meeting in Toronto. This will be the 50<sup>th</sup> Anniversary Meeting of the Research Council and will certainly be a landmark meeting. At the meeting in Ann Arbor, Dr. Michael Moses (supervisors Drs. Cho Pang and Peter Neligan) won the Shenaq Award for the best paper by a foreign resident or fellow. Dr. Moses comes from the UK and is currently spending a two-year fellowship in Dr. Pang's laboratory at The Hospital for Sick Children.

This past year saw the launch of ARTEC. ARTEC is a tissue engineering initiative co-ordinated by Dr. John Semple in collaboration with the University of Toronto, Sunnybrook and Women's Health Science Centre and Industry. This is a 12 million dollar initiative. Dr. Semple is currently engaged in organizing the scientific structure as well as the physical lab space which will see tissue engineering brought to a new level at this Centre.

This year, three residents were successful in the Royal College Examinations. The graduating residents are Drs. Alexis Armour, Brett Beber and Robert Shenker.



# DIVISION OF THORACIC SURGERY

*Dr. Shaf Keshavjee – Chair*

## *Clinical Accomplishments*

The Division of Thoracic Surgery has 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 develop expertise in minimally invasive surgery, for the management of both benign and malignant thoracic conditions. Our service is heavily involved in clinical trials in lung cancer, esophageal cancer and lung transplantation. Our division members are 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. Gail Darling, Program Director. The FG Pearson Award for Best Resident/Fellow Teacher was awarded jointly to Drs. Carmine Simone and Eric Bedard. The RJ Ginsberg Award for Best Postgraduate Teacher

was awarded to Dr. Michael Johnston.

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. Our laboratory program continues to provide an exciting and productive research training environment, for residents in the Surgical-Scientist Program (MSc or PhD) and for numerous postgraduate fellows from all over the world.

## *Recruitment and Promotion*

Dr. Yaron Shargall was appointed as Assistant Professor and an attending Thoracic Surgeon, at St. Joseph's Health Center. Dr. Shargall trained in Cardiothoracic Surgery in Israel, and then in Thoracic Surgery at the University of Toronto. His academic area of interest, is surgical education and clinical trials.



## D I V I S I O N O F U R O L O G Y

*Dr. Sender Herschorn,  
Professor and Chair*

### *Highlights*

**D**r. Joao Pippi Salle joined the staff in paediatric urology at the Hospital for Sick Children. He is internationally known as a surgical innovator in reconstructive urology. The "Pippi Salle" procedure which involves reconstruction of the incompetent bladder neck is named after him. He will be conducting clinical research and has a special interest in resident education.

Dr. Vasundara Venkateswaran was appointed as the second scientist researcher in the Division of Urology. She is working at Sunnybrook and Women's in Dr. Klotz's lab.

### *Hospital for Sick Children*

Dr. Darius Bagli was awarded a research grant from the National Institutes of Health. He won second prize for basic research at the Annual American Academy of Paediatrics National Conference and Exhibition.

He was also awarded a two-year National Institutes of Health (NIH) research grant. 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. Bagli received a service award from the Society for Basic Urologic Research (SBUR), at the Spring 2004 meeting on May 8, 2004.

Dr. Walid Farhat continued his work in tissue engineering and repopulation of acellular matrices for bladder reconstruction.

He was a Visiting Professor at the University of Beirut in Lebanon in July 2003. He was also invited to lecture at the 6th Great Lakes Urology Seminar on March 12-13, 2004 in Detroit, Michigan. He received a grant from the Hospital for Sick Children's Foundation, with partnership funding from the CIHR Institute of Human Development, Child, and Youth Care.

Dr. Tony Khoury, site chief at Hospital for Sick Children, was Visiting Professor at the Pediatric Urology Workshop at the Al Mafrq Hospital in Abu Dhabi, UAE on June 4-11, 2003. He was a Visiting Professor at the University

of Arkansas Medical Center, Department of Urology, in Little Rock, Arkansas in October. While in Arkansas, he attended and spoke at the Arkansas Urological Society meeting. Dr. Khoury was invited as guest lecturer at the 16th Saudi Urological Meeting in Riyadh, Saudi Arabia on March 2-7, 2004.

He also continued his research in infection.

Dr. Lori Burrows promoted to the rank of Associate Professor this year, continued as Director of the Centre for Infection and Biomaterials Research. She won the Premier's Research Excellence Award.

Dr. Burrows gave a talk on Nov 2, 2003 at the American Society for Microbiology's Biofilms 2003 meeting in Victoria, British Columbia. She also gave talks at the Hospital for Sick Children's Research Institute Retreat, Nov 18, 2003; Gordon Research Conference on Bacterial Cell Surfaces, New London, New Hampshire, June 30, 2004; Department of Biological Sciences, University of Southern California, Los Angeles, California, Apr 16, 2004; Queens University, Kingston, Ontario, Mar 24, 2004; and Advanced Foods and Materials Network Bacterial Biofilms Working Group Meeting, Guelph, Ontario, Jan 30, 2004.

She also was successful in her application for a CIHR New Investigator award. She has also been successful in two more grant applications. The first is from PENCE (Protein Engineering Network Centre of Excellence), New Ideas Program. The second is to study the role of bacterial cell wall biosynthetic enzymes in biofilm formation by *Escherichia coli*. (Agency: CIHR, III Pilot Project Grants for New Investigators).

She also received a three-year renewal of her CIHR Operating Grant in the March 2004 competition.

Dr. Burrows' PhD student Poney Chiang received a two-year studentship from the Canadian CF Foundation in the October 2003 competition. Her PhD student, Julianne Kus received the inaugural two-year Canadian CF Foundation/CIHR Training Program Studentship in the October 2003 competition and an Ontario Science and Technology Graduate Scholarship for 2003-2004. A new MSc student in her lab, Melissa Ayers, received a two-year studentship from the Hospital for Sick Children's Research Training Centre, in the April 2004 competition.

Dr. Joao Pippi-Salle won first prize for clinical research for his paper at the American Academy of Paediatrics.

#### *Mount Sinai Hospital*

Dr. Keith Jarvi, site chief at Mount Sinai Hospital, continued the Male Infertility Program and as Director of the The Murray Koffler Urologic Wellness Centre (MKUWC).

Dr. Jarvi gave a two-day course at the American Society of Reproductive Medicine's annual meeting, in San Antonio, Texas in October and was guest speaker at the Paediatric Oncology Group of Ontario (POGO). Dr. Jarvi also organized the Annual Robson Research Day Resident and Fellow, scientific presentation contest.

#### *Sunnybrook & Women's College Health Sciences Centre*

Dr. Lesley Carr continued as medical director of the Women's Pelvic Health Centre at Women's College Ambulatory Care Centre of Sunnybrook & Women's College Health Sciences Centre until March 2004, when it closed. Dr. Carr also directed the weekly Urology School for the residents.

She organized the first meeting of Canadian Women in Urology, at the Canadian Urologic Association's annual Meeting in June. She was also elected first president of the new Society for Canadian Pelvic Health Care Professionals. She also won the Division of Urology Postgraduate Teaching Award for Clinical Teaching this year.

Dr. Sender Herschorn continued as University Division Chair and Department Continuing Education Director. He was guest faculty at the University of West Virginia Annual Urology Teaching Weekend in Morgantown, West Virginia. He gave a presentation at the University of Toronto of T Mini Med School, in October and May as part of the lecture series on Men's Health.

He was Visiting Professor to the Divisions of Urology and Urogynecology, at the University of Alberta in Edmonton and to the Division of Urology, at the University of Manitoba in Winnipeg.

Dr. Herschorn was Director of the 11<sup>th</sup> Annual Division of Urology course "Urology Update".

Dr. Herschorn was a guest speaker at the McGill University and McMaster University Divisions of Urology sponsored course, entitled, "Current Problems in Urology", in Quebec City, Feb 5-7, 2004. He was then guest faculty at the Northwestern University Department of Gynecology and Baylor College of Medicine's Division of Urology, for "Update in Gynecologic Urology", as well as in St. John, US Virgin Islands, Feb 12-14, 2004. He was next invited as Guest Faculty to the Prairie Urologic Association Meeting in Banff, Alberta, Feb 19-21, 2004 and also invited as guest speaker, for the session on male incontinence at the

Society for Urodynamics and Female Urology Meeting in Scottsdale, Arizona, Feb 27- 29, 2004.

Dr. Herschorn was also Visiting Professor Dalhousie University Division of Urology, Halifax Nova Scotia, April 13-14, 2004. He was also Visiting Professor at University of Montreal's Division of Urology, April 20, 21, 2004, and demonstrated two different surgical procedures. He was a guest speaker at the Genitourinary Reconstructive Surgeons (GURS) Meeting at the AUA in San Francisco, California. He attended as guest speaker at the Czech Urological Society Meeting in Uherske Hradiste, Czech Republic, in May 2004.

Dr. Laurence Klotz, site chief at Sunnybrook & Women's College Health Sciences Centre, continued his research in Uro-oncology and his many leadership appointments.

Dr. Klotz was Visiting Professor in London, England at St. George's Hospital and at the University of Bristol, England in July. He was also an invited lecturer at the Vancouver Prostate Centre, University of British Columbia. In July, 2003, he was Visiting Professor, at Tokyo University, Tokyo, Japan and at the University of Manitoba, in August.

In September, he was guest lecturer at the State-of-the-Art Symposium at the Northeastern Section of the American Urological Association Annual Meeting in Halifax, Nova Scotia. Dr. Klotz was guest speaker at the Irish Society of Urology, Killarney, Ireland and at the German Society of Urologic Oncology, Marburg, Germany in October.

He also received a grant from the Ontario Cancer Research Network, for his work with prostate cancer.

Dr. Klotz was Visiting Professor at the University of West Virginia School of Medicine, Morgantown, West Virginia, in January, 2004.

Dr. Klotz was honoured as the American Urological Association's (AUA) guest speaker for the plenary session of the European Association of Urology Annual Meeting in Vienna, Austria, March 25<sup>th</sup>. He gave a course at the American Urological Association Meeting in San Francisco and was a speaker in the Huggins Symposium in May. He won the Division of Urology Postgraduate Teaching Award, for surgical teaching this year.

Dr. Ron Kodama continued as Program Director. He won the A.W. Bruce Faculty Undergraduate teaching award for 2003-04 for outstanding teaching to medical students. He also organized the second Annual Resident Basic Science Course at the Delta Chelsea Hotel, Toronto, Feb 27-29.

He again organized the Surgical Skills Lab session on TURP and TURBT. He directed the annual Urology Fair, February 7, 2004. He won the A.W. Bruce Division of Urology Undergraduate Education Award, for outstanding teaching to medical students, which he has done every year since the award began.

Dr. Robert Nam continued his work in uro-oncology with research in the genetics of prostate cancer. He was awarded a grant from the Canadian Prostate Cancer Research Foundation, for one year. He also received a grant from the J.P. Bickell Foundation.

Dr. Nam also received a TFF grant for new investigators from the National Cancer Institute of Canada. He organized a Symposium on Prostate Cancer Management that was held on June 4<sup>th</sup>. It was in conjunction with the Prostate Cancer Centre at the Toronto Sunnybrook Regional Cancer Centre.

His book entitled "So You're Having Prostate Surgery", published world-wide by Wiley and co-authored with Leah Jamnicky, RN, urology nurse co-coordinator, at the University Health Network, was launched in Toronto on June 10<sup>th</sup>.

Dr. Vasundara Venkateswaran was awarded seed money from the Dean's Fund for her project, on prostate cancer

#### *University Health Network*

##### *Toronto General Hospital and Princess Margaret Hospital*

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

Dr. Fleshner gave a State-of-theArt lecture at the European Association of Urology Meeting in March 2004. He also received a grant from the Ontario Cancer Research Network.

Dr. Michael Jewett continued his clinical and research work in Uro-Oncology. He supervised Mr. Sanoj Punnen, who was awarded an IMS Summer Research Student Scholarship for the best poster at the IMS summer poster session. He supervised Dr. A. Volpe who was awarded a Surgical Oncology grant by the Ontario Cancer Research Network. As Principal Investigator he was awarded a grant from the Kidney Foundation of Canada and is Co- PI on a phase I/II study with metastatic renal cell carcinoma, as well as being a co-investigator on numerous other successful applications. Dr. Jewett was elected Vice-President of the Canadian Urologic Association and will serve as President-Elect next year.

Dr. Jewett was Visiting Professor at the Mexican Society of Uro-Oncology, Veracruz, Mexico, July 22-24, 2003. He was invited to present at the MIS Oncology Day Plenary Session of the 21st World Congress on Endourology, Montreal, Quebec, Sep 23, 2003, as well as to the Heinrich Warner Foundation Program 2003 VIII. Symposium Renal Cell Carcinoma in Hamburg, Germany, Oct 30, 2003. He was Visiting Professor at the Clinica de Marly, Bogotá, Colombia, Mar 5, 2004 .

He moderated at the International Consultation on Prostate Cancer, Whistler, British Columbia, Mar 18, 2004 and was invited to Urology 2014: A Decade of Progress, Queen's University Department of Urology,

Kingston, Ontario, Apr 3, 2004. He was invited to the Washington Urological Society, Washington, District of Columbia, Apr 15, 2004 and was Visiting Professor to the George Washington University Department of Medicine, Washington, District of Columbia, Apr 15, 2004. Finally he was Visiting Professor to the Division of Urology, University of Manitoba, Winnipeg, Manitoba, May 18, 2004 and was invited to the GU Site Group Rounds, Cancer Care Manitoba, Winnipeg, Manitoba, May 19, 2004.

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

Dr. John Trachtenberg was visiting professor at Weizmann Institute of Science July 13, 2003, Haifa, Israel. Dr. Trachtenberg dedicated The Photodynamic Research Lab named in his honour, at the Weizmann Institute of Science, Israel on November 11, 2003.

Dr. Trachtenberg gave a State-of-theArt lecture at the European Association of Urology Meeting in March 2004. He received a grant with Brian Wilson and Michael Sherar from "Ontario Consortium for Image Guided Surgery and Therapy" to Develop Novel Means of Image Guided Surgery, in GU Tumors and received a grant from the National Cancer Institute of Canada for Fluorescent Guided Prostate Surgery.

Dr. Trachtenberg also received grants from Pfizer Canada Inc.; National Institutes of Health; and Princess Margaret Hospital Foundation.

He also co-chaired the Twelfth Annual Issues and Controversies in Prostate Cancer with Dr. Larry Goldenberg, University of British Columbia, in Whistler, British Columbia.

#### *Toronto Western Hospital*

Dr. Magdy Hassouna continued his basic and clinical work in neurourology and neuromodulation.

He hosted a broadcasting session in Interstim Therapy in the United States. He also chaired a session on Review on Sacral Neuromodulation at the annual meeting of the International Society of Pelvic Neuromodulation in La Jolla, California Jan 22-24, 2004 and at the same time, was elected their Vice President.

Dr. Sidney Radomski, continued his role as the Urology co-ordinator in the Surgical Skills Lab and conducted hands-on-sessions for the residents, during the year. Dr. Radomski won the Wightman-Berris Academy Award for Individual Teaching Excellence 2003-2004.

Dr. Radomski was also co-supervisor of Paula Miceli, who received a CIHR Canada Graduate Scholarship - Doctoral award.

#### *St. Michael's Hospital*



Dr. John Honey, site chief at St. Michael's, continued his work as Director of the Lithotripsy Unit.

Dr. Honey was Scientific Program Chairman of the 21<sup>st</sup> World Congress on Endourology and Shock Wave Lithotripsy, which was held at the Palais du Congress in Montreal from September 21-24.

Dr. Kenneth Pace, Assistant Professor, continued his work in clinical epidemiology and Stone and Minimally Invasive Surgery.

Dr. Pace was awarded a Dean's Fund new Faculty Grant. He also won an "Outstanding Teacher of the Art & Science of Clinical Medicine" award for 2003/4 at the Fitzgerald Academy.

Dr. Robert Stewart continued as the principal urologist in the kidney transplantation program as well as his basic research into angiogenesis in prostate cancer.

He won the Dr. Clarice Chalmers Teaching Award in the Department of Surgery at Saint Michael's Hospital.

Dr. Stewart received the Fitzgerald Academy Undergraduate Teaching Award, 2003 and

was awarded a new grant as co-investigator with Dr. Leong-Poi from the Division of Cardiology from the JP Bickell Foundation.

#### *Academic Events & Divisional Awards*

The Annual Charles J. Robson Research Day was held on April 1. The Visiting Professor was Dr. Mostafa Elhilali, Chairman of the Department of Surgery at McGill University in Montreal. There were 25 research presentations from the division and the winners in the various categories were as follows:

Resident basic science: Timothy Davies

Resident clinical: Ashis Chawla

Honourable mention: Tara Moskalyk

Fellow Basic: Kourosh Afshar

Honourable mention: Ahmed Haddad

Fellow clinical: Rami Al-Azab

Honourable mention: Arthur Grabowski

#### *Other Awards won by Residents*

Dr. Karim Kader, PGY-4, won the D.R. Wilson undergraduate teaching award for excellence on Gallie Day.

#### *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 John Honey, Michael Jewett, Sid Radomski, John Trachtenberg, and Pippi-Salle. The lectures and notes are updated yearly.

#### *Visiting Professors*

There were a total of 16 visiting speakers and professors in the division in 2003-04.

Dr. Mostafa Elhilali from McGill University was the Robson Visiting Professor. Visiting Speakers for Urology Update were Drs. Jerry Blaivas from Cornell in New York, Edward Messing from the University of Rochester in Rochester, New York, Steven Kaplan from Columbia University in New York, Colin Dinney from the University of Texas in Houston, Inderbir Gill from the Cleveland Clinic in Cleveland, Ohio, Gerald Brock from University of Western Ontario in London, Ontario, Serge Carrier from McGill University in Montreal, Quebec, Jeremy Heaton from Queen's University in Kingston Ontario, Patrick Luke from the University of Western Ontario in London Ontario, Yves Fradet from Laval University in Quebec City, Philippe Zimmern from University of Texas Dallas Southwestern in Dallas, Texas.

Other visiting professors were Dr. Patrick McKenna from Southern Illinois University in Springfield IL and Dr. Robert Freeman from Boston Children's Hospital Research Labs in Boston, Massachusetts.

Dr. Eric Klein from the Cleveland Clinic, Cleveland Ohio, and Dr. Robert Myers from the Mayo Clinic, Rochester Minnesota, were guest speakers at the Prostate Cancer Treatment Symposium.

#### *Continuing Professional Development*

The Eleventh 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, Robert Stewart, and John Trachtenberg. Other participants were Magdy Hassouna, Kenneth Pace, Neil Fleshner, Rob Nam, Michael Jewett, John Honey, and Michael Robinette.

Dr. John Trachtenberg co-chaired the 13<sup>th</sup> Annual Issues and Controversies in Prostate Cancer in Whisler, British Columbia. It was again well-attended and highly successful.

Dr. Robert Nam directed a symposium on prostate cancer at the Vaughan Estate on June 4, 2004. It was held in conjunction with the TSRCC Prostate Cancer Centre.



# DIVISION OF VASCULAR SURGERY

*Dr. Thomas Lindsay, Chair*

## *Introduction*

This has been a year of political action for the Division of Vascular Surgery. The division has united around the lack of priority status for Vascular Surgery at the University of Toronto teaching hospitals. We succeeded in obtaining a Ministry of Health sponsored review of Vascular surgery services in the GTA. The external consultant's report confirmed the surgeons' impression that major change is essential and urgent to improve the access to timely vascular surgery patient care and services. The next focus will be to achieve implementation which will allow recruitment and access to modern technology.

## *Administration*

Dr. Wayne Johnston completed his term as the first Chair of the Division of Vascular surgery, Program Director in Vascular Surgery and Division Head at University Health Network. His leadership at the local, national and international level in research, fellowship training and recruitment, has given the Division an international reputation. Dr. Johnston continues as the R. Fraser Elliott Chair in Vascular Surgery and Editor-in-Chief of Vascular Web, a consortium of the North American Vascular Societies. He was appointed Vice Chair Distinguished Fellows Council and Board Member of the Society for Vascular Surgery, at the June 2004 meeting. Dr. Thomas Lindsay accepted the appointment as Division Chair effective October 2003. He has also assumed the role as Program Director in Vascular Surgery. Dr. Barry Rubin was appointed as the Division Head of Vascular Surgery at the University Health Network. Also, Dr. Rubin was elected Chairman and Chief Executive Officer for both the Mount Sinai Hospital – University Health Network Academic Medical Organization and the Health Practitioners Funding Group. These organizations represent the doctors in Alternate Funding Programs initiated by the MOHLTC. Dr. Wayne Tanner continues as

the Head of the Section of Vascular Surgery at the Ontario Medical Association. He continues to play a major role on the OMA negotiating team trying to achieve a new collective agreement between the MOHLTC and the OMA. His political activities remain an important contribution on behalf of all physicians in Ontario. Dr. Douglas 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. Stephan Mostowy and Ala Groof completed their vascular fellowship training in 2003. Drs. George Oreopolous and Dr. Ali Jawas have completed fellowship training in June 2004.

## *Research*

Dr. Thomas Lindsay was awarded a new PSI grant in April 2004 entitled "Ruptured Abdominal Aortic Aneurysm: Molecular Mechanisms to Clinical Studies". This research focuses on the mechanisms of organ dysfunction following Ruptured Abdominal Aortic Aneurysm. Dr. Johnston's CIHR funded grant with Professor Richard Cobbold (Biomedical Engineering) on Doppler studies continues as his major research endeavor. Dr. Rubin's laboratory funded by both CIHR and PSI is investigating the role of prostaglandins as critical signaling molecules in both leukocytes and cardiac myocytes. Dr. Daryl Kucey continues his focus in epidemiology investigation and reporting upon the outcomes of vascular surgical procedures across the province of Ontario. Dr. Lossing's collaboration with a group at Wayne State University into genetic predispositions for the development of aortic aneurysms resulted in a publication in *Circulation*.

### *Awards*

Dr. Oreopolous won a Sopman Humanitarian Award presented by the University Health Network. Drs. Lindsay, Johnston and Wooster have been named Distinguished Fellows of the Society for Vascular Surgery. Dr. Rubin became a member of the Society for Vascular Surgery at the June 2004 meeting.

### *External Visits and Visitors*

The Toronto and Vicinity Vascular Surgical Society had three meetings this year. Dr. Robert Hobson discussed Carotid Stenting in clinical trials. Dr. Craig Kent from Cornell University Medical Centre discussed the opportunities in Vascular surgery as a result of new technology. Drs. Kucey and Szalay spoke about their new treatment paradigms for varicose veins including ablation with endovenous laser techniques.

External visits by members of the Department included Dr. Rubin who was a Visiting Professor at the Karolinska Institute in Sweden. Dr. Johnston was the Distinguished Lecturer at the Japanese Vascular Society. Dr. Johnston, Kucey, Lindsay, Szalay and Wooster presented at the Winnipeg Vascular Surgery course in April 2004. Drs. Johnston, Lindsay, Szalay and Wooster presented on the applications of Duplex ultrasound at the VITO meeting in Toronto in May 2004. Dr. Szalay also spoke on "Office Based Management of Venous Disease" at the Royal Jubilee Hospital in Victoria Vascular surgery rounds in May 2004. Drs. Wooster and Lindsay presented on the vascular Duplex ultrasound at the Central Alberta Ultrasound Society meeting in Banff, AB, in May 2004.



## D I V I S I O N   O F A N A T O M Y

*Dr. Michael J. Wiley - Chair*

This year the Division made further progress introducing electronic technology to support our educational programs in anatomy. The Division has now established course websites for each of the courses we teach to students in Dentistry, Arts and Science, Rehabilitation Medicine, Physical and Health Education, and the School of Graduate Studies. Through each of these websites students can access all course materials, announcements, marks, discussion groups, and links to other relevant websites. The museum, conference rooms and dissecting rooms now all have access to the internet so that students and instructors can readily incorporate web-based resources into their educational activities in the Division. We are continuing to expand the 'Anatomia' website, designed to address regions that present particular challenges in the dissecting room. Drs. Pat Stewart, Bernie Liebgott and Mike Wiley are currently developing a module on the anatomy of the orbit, which will be completed for the Fall of 2004. The 'Anatomia' website can be viewed at <http://www.bmc.med.utoronto.ca/anatomia/>.

Bequests to the Division this past year have permitted the establishment of the Friedberg Prize in Anatomy and the Harland-Smith Fellowship in Anatomy. The Friedberg Prize will be awarded to a student in the first year dental class for excellence in the laboratory. This award is a tribute to Dr. Ed Friedberg a laboratory instructor in dental anatomy for many years, who passed away this year. The Harland - Smith Fellowship will provide full graduate student stipends for students in Anatomy who choose to include training in teaching anatomy and neuroanatomy as part of their graduate programs. These fellowships have been established in the name of the late Dr. Carlton Smith and Rita Harland-Smith, both Professors of Anatomy for many years at the University of Toronto.

Many of the faculty in the Division were recognized this year with teaching awards including Dr. Pat Stewart who received the Aikens Award for Development and Use of Instructional Media and Dr. Ian Taylor who received the E. Mary Hollington Award for teaching with distinction in the undergraduate preclinical curriculum. Pat Stewart was also awarded the John Reudy Award for Innovation in Medical Education by the Association of Canadian Medical Colleges. In addition, Dr. Cindi Morshead received the Premier's Research Excellence Award for academic and research excellence.

Several new graduate students joined the Division this year including Vanessa Scanga and Howard McGill, supervised by Dr. Cindi Morshead; Alessandro Rosatelli, Lynda McClatchie, Kim Soo and Claudio Sansalone, supervised by Dr. Anne Agur; and Makepeace Charles and Laetitia Leon, supervised by Dr. Bernie Liebgott.



# *D I V I S I O N   O F* *B I O M E D I C A L* *C O M M U N I C A T I O N S*

*Dr. Linda Wilson-Pauwels, Chair*

**F**aculty in the Division of Biomedical Communications (BMC) are dedicated to the continued development of research in the field. Grants from NSERC (Cell Systems Visualization), a second-year of funding from Merck Frosst Canada Inc. (PharmaPlanner), and the CIHR Student Training Grant in Pain have helped to set the future direction of the graduate program.

The MScBMC program continues to attract 16 qualified students with high GPAs and interdisciplinary backgrounds (11 BSc, 3 BA, 2 PhD). In the 2003-2004 academic year, our graduate students secured \$129,091 in scholarships and awards including 3 University of Toronto Entrance Opens, 2 Fee Differential Waivers, 6 Institute of Medical Science (IMS) Continuing Fellowship Awards, 3 OSOTFs, and 2 CIHR scholarships; very impressive for a small professional graduate program.

The M.Sc.BMC program is offered through the IMS in the Faculty of Medicine. On May 1<sup>st</sup>, 2004, BMC administratively moved from the Department of Surgery to the Institute of Communication and Culture, University of Toronto at Mississauga (UTM). During the next 5 years BMC will double its existing graduate student cohort from 16 to 32. As well, BMC and UTM faculty will design 10 new undergraduate half courses with interdisciplinary foci with a view to creating a continuum of teaching from the undergraduate to the graduate level in biomedical, scientific and health communication. The relationship with UTM will expand BMC's present network of colleagues to other disciplines including Forensic Anthropology, Archaeology, and Psychology).

During the past 14 years, as a Division in the Department of Surgery, we have worked closely with many surgeons on innovative projects and grants. It is the hope of BMC faculty that this relationship will continue to flourish in the years ahead.



# S U R G I C A L A L U M N I A S S O C I A T I O N

*Dr. Charles H. Tator – President and Chairman*

**I**n 2003-2004, the Surgical Alumni Association continued its mission of re-engaging with alumni, and in providing the resources for enhancing and preserving the great academic activities in the Department of Surgery.

One of the ways that the association performs its role is through targeted fundraising among surgical faculty and alumni, including current faculty and past faculty and alumni practicing or retired in other centres. I am pleased to report that the 2003-2004 campaign for the Surgical Alumni Association of the Department of Surgery raised considerable support for our department. As you know, virtually all of the funds collected are used to benefit the Surgeon-Scientist Program. As in previous years, we tried to work in consultation with the fundraising initiatives of some of the divisions that were in the midst of focused campaigns. Divisional campaigns are certainly important because divisional aspirations are always carefully conceived and designed to meet pressing academic priorities.

Nevertheless, we continue to encourage all faculty and alumni to donate to the Surgical Alumni Association so that we can support department-wide programs such as the renowned Surgeon-Scientist Program. Because of your donations, this program has continued to have sufficient resources to be able to support surgical residents from all divisions who make the commitment to a formal period of training in research during their resident training in the Gallie Course. Because of your generosity, the Surgical-Scientist Fellowship endowment continues to grow each year and represents an important source of support for Surgeon-Scientist Program trainees. Our goal is to be able to attract and support an even larger number over the coming years.

For the 2003-2004 campaign, we continued to advocate that every current clinical faculty member in the Department of Surgery and every alumna and alumnus of our program practicing anywhere in the world should contribute a minimum of \$1,000 annually to the Surgical Alumni Association, and we thank you to everyone who committed to this concept. We have also spent considerable time planning the 2004-2005 campaign because of the potential for doubling and tripling your 2004-2005 donations, through matching programs initiated by the university and the provincial government. Thank you to the Division Heads who continued to play a key role in the annual campaign of the Surgical Alumni Association.

Other major campaigns to which we devoted our energy in 2003-2004 included the Dr. Bernard and Ryna Langer Chair in General Surgery, for which the minimum \$2 million dollar endowment goal was reached, and the Martin Barkin Chair in Urological Research. The Surgical Alumni Association encourages the establishment of endowed academic chairs in all divisions.

On behalf of the Surgical Alumni Association, we thank the Department of Surgery and its alumni for its support of this association in the past year, and look forward to serving you in the coming academic year.



# S U R G I C A L O N C O L O G Y

*Dr. Andy Smith,  
Head, University of Toronto Surgical Oncology Umbrella Committee*

**S**urgical Oncology at the University of Toronto continues to develop and flourish. In addition to significant impact in the management of cancer in Ontario, surgical oncologists at the University of Toronto continue to have an important role in educational and academic spheres. There has been significant recruitment of Fellowship trained surgical oncologists to all sites in the university system. Many disease site groups have been bolstered in this regard, guaranteeing that the future of surgical oncology in the multidisciplinary management of cancer patients, in leadership in cancer care, is assured. Development and expansion of Fellowship programs and increased interaction with Cancer Care Ontario, has signaled advances in education of new surgical oncologists and the improvement of cancer care throughout the province.

The University of Toronto General Surgery Surgical Oncology Fellowship, has expanded and is now a part of the Society of Surgical Oncology matching process. Membership in this prestigious society is a testament to the excellent leadership and hard work of Dr. Carol Swallow and an increasing cadre of surgical oncologists and the University Health Network, Mount Sinai Hospital and Sunnybrook & Women's College Health Sciences Centre. Other Fellowship programs in Uro-oncology, Head and Neck oncology and Gynecologic oncology, continue to flourish and are increasingly responsible for the training of surgical oncologists in both Canada and the rest of the world.

Cancer Care Ontario has continued to assume a greater role in education and the monitoring of cancer quality, throughout the province of Ontario. Program activities including Cancer Surgery GTA Wait Times Assessment, the development of the Surgical Oncology Regional Cancer plan and the development of panels of Quality Indicators, are central to these efforts. University of Toronto surgical oncologists have played an important role in the development of these programs.

The development of a surgical oncology AFP has been a major initiative over the last year and will continue to be over the next few years. This will have a major impact on the clinical, educational and academic activity of surgical oncologists across the University of Toronto. In order to best promote the importance of academic issues and provide advocacy for university surgical oncologists, the University of Toronto Surgical Oncology umbrella committee has been redeveloped. This committee aims to focus the energies of the Departments of Surgery, Otolaryngology, Gynecology and Ophthalmology, to promote issues of universal importance.



# C O N T I N U I N G P R O F E S S I O N A L D E V E L O P M E N T

*Dr. Sender Herschorn,  
Director*

**C**ontinuing professional development continues to be a major focus within the department. Most members participate actively in educational program of all descriptions. This year showed a resurgence of activity.

Three 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. That 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. Members are required to submit continuing professional development (CPD) hours from the previous year, by the January 31<sup>st</sup> deadline. Details of the program can be obtained from the following website: <http://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.

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



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.

All divisions held courses this year and there were 19 that were run by the University Continuing Education Department, an increase of 3 over last year. The list of the courses is in the following Table. Of note, is General Surgery that held its 43<sup>rd</sup> annual update. The Aesthetic Plastic Surgery Course has been given for 34 years. The Thoracic Surgery course, which was cancelled last year due to SARS, was given for the 30<sup>th</sup> year. The Vascular course has been given for 22 years and the Upper Extremity course, for 19 years. The Urology Update was 11 years old and continued to be one of the largest urology CE event, in Canada.

*Table: CE events*

<b>Course Title</b>	<b>Enrollment</b>	<b>Hours</b>
Surgical Oncology	63	6.5
Burn Study Group	126	7
Cdn Society For Aesthetic Plastic Surgery	31	5.5
Intraoperative Monitoring In Neurosurgery	4	37
Kennedy Visiting Professor	45	10.5
Urology Update 2003	281	15.5
Breast Surgery Symposium	135	7
Upper Extremity Update	229	6.5
Update in General Surgery 2004	398	17.5
Foot and Ankle Symposium	200	11
Thoracic Surgery 2004	160	16
Vascular Imaging Toronto 2004	N/A	10.5
Pelvic Fracture Course	N/A	26
Hand Surgery	17	4.5
Aesthetic Plastic Surgery	166	13
Facial Rejuvenation	20	4.5
Cardiac & Wilderness Medicine	45	22
International Surgery	N/A	10.5
Prostate Cancer	N/A	4.5

There were more than 1900 participants, up from 1200 last year. There was a total of 235 hours of courses given, an increase of 48 hours, or 26% more than last year.

The department continues to be a large provider of CPD courses, due to the skill and motivation of its members. Excellence in CE activity continues to have a positive impact on an individual’s annual performance review and in academic promotion. Teaching dossiers are reviewed and contribution to CE is considered an important facet of academic activity



# THE HOSPITAL FOR SICK CHILDREN

*Dr. J.H. Wedge,  
Professor and Surgeon-in-Chief*

## *Heads of Divisions*

Dr. G. Van Arsdell – Cardiac Surgery

Dr. J. Langer – General Surgery

Dr. J. Drake – Neurosurgery

Dr. W. Cole – Orthopaedic Surgery

Dr. C. Forrest – Plastic Surgery

Dr. A. Khoury – Urology

This will be my final report as Surgeon-in-Chief as I will have completed two five-year terms at the end of December this year. An external review was conducted in January by Dr. Douglas Cochrane, Vice President, Medical Affairs and Quality, Provincial Health Services Authority, British Columbia and Dr. Scott Adzick, Surgeon-in-Chief at the Children's Hospital of Philadelphia. The reviewers noted that extramural research funding support had quadrupled over the past ten years and that our Alternate Funding Plan had embraced and supported academic excellence by emphasizing teaching and research, in addition to high-quality patient care. The reviewers' assessment of the strengths and weaknesses of surgery at this hospital was very perceptive and they provided a number of helpful recommendations to guide the next Surgeon-in-Chief who should be appointed shortly.

The inability to develop space for research to keep up with our pace of hiring basic scientists and clinician scientists has been a major problem over the past several years. Fortunately, an arrangement has been made with the MARS project to lease and outfit four floors of space on College Street which should adequately address our deficiency of space until a master plan for redevelopment of our campus can be achieved.

The following have been promoted this year: Dr. Benjamin Alman, Division of Orthopaedic Surgery to Full Professor; Dr. David Fisher, Division of Plastic Surgery to Assistant Professor; Dr. Lori Burrows, Division of Urology to Associate Professor; Dr. Andrew Howard, Division of Orthopaedic Surgery to Associate Professor.

An external review of the Division of Orthopaedic Surgery was conducted in October of 2003 by Dr. Stephen Tredwell of the University of British Columbia. A search is underway for a replacement for Dr. Bill Cole who has enjoyed outstanding success as Division Head for the past twelve years. Bill's recruitment of young academic



surgeons to the Orthopaedic Division has made it one of the best in North America. An outstanding young surgeon scientist, Dr. Sevan Hopyan, will be joining the Division in January of next year.

Dr. Sigmund Ein, an internationally recognized paediatric general surgeon and a very popular member of our Surgical Department retired last December. A wonderfully humorous programme capped off a dinner held in his honour by his colleagues and attended by a large number of paediatric general surgeons from across Canada.

Our Neurosurgical Division continues to receive accolades for its academic productivity. Dr. James Rutka received the Grass Award from the American Association of Neurological Surgeons for his contributions to research in surgical neuroscience and Dr. Peter Dirks was named one of the top 40 Under 40 which is special recognition for people who have achieved early and have potential to be leaders in the future.

I have found my ten years as Surgeon-in-Chief to be very rewarding and wish great success for my successor, Dr. James Wright. The Hospital for Sick Children is a truly remarkable institution which receives unbelievably strong support from our local community and which attracts some of the best young paediatricians, surgeons and scientists from around the world. I am confident that with the current surgical staff there will be little reliance on past tradition but rather great enthusiasm for opportunity and discovery in the future.

## DIVISION OF CARDIAC SURGERY

**Dr. C. Caldarone - Associate Professor**

**Dr. J.G. Coles - Professor**

**Dr. G.S. Van Arsdell - Assistant Professor (Division Head)**

**Dr. W.G. Williams - Professor**

**Dr. C. Wittnich - Professor**

## PUBLICATIONS

**Ahluwalia MS, Butany J, Silversides C, Fayet C, Williams WG:** Subaortic stenosis: recurrence of a fibrous ring after 28 years. *Canadian Journal of Cardiology*: September 2003: 19: pp 1189-91.

**Ashburn DA, Blackstone EH, Wells WJ, Jonas RA, Pigula FA, Manning PB, Lofland GK, Williams WG, McCrindle BW and the Members of the Congenital Heart Surgeons Society:** Determinants of mortality and type of repair in neonates with pulmonary atresia and intact ventricular septum. *Journal of Thoracic and Cardiovascular Surgery*: April 2004: 127: pp 1000-1008.

**Bandali KS, Belanger MP, Wittnich C:** CHD - Does hyperoxia affect glucose regulation and transport in the newborn? *Journal of Thoracic and Cardiovascular Surgery*: December 2003: 126 (6): pp 1730-1735.

**Belanger MP, Askin N, Bandali K, Wallen WJ, Wittnich C:** Circulating awareness of adverse effects of Propofol. *Journal of the American Veterinary Medical Association*: September 2003: 223 (6): pp 781.

**Belanger MP, Wallen WJ, Askin N, Wittnich C:** Effect of hypertension on reproductive organ weights in various strains of rats. *Contemporary Topics in Laboratory Animal Science*: November 2003: 42 (2): pp 39-41.

**Caldarone CA:** "Sutureless" pulmonary vein stenosis repair. In: *CTS Experts' Techniques, Congenital Cardiac Expert's Techniques* (Backer CL, ed). CTS Net, Internet: 2004.

**Caldarone CA:** Invited Commentary: Mitral valve replacement in children: Predictors of long-term outcome. *Annals of Thoracic Surgery*: September 2003: 76: pp 859-60.

**Caldarone CA, Busick NP, Behrendt DM, Nims M, Milleman JT:** Case study. In: *Surgical Correction of Congenital Heart Disease* (Caldarone CA, Busick NP, Behrendt DM, Nims M, Milleman JT, eds). *Virtual Children's Hospital*: 2004.

**Caldarone CA, Nims M:** Mustard procedure. In: *Surgical Correction of Congenital Heart Disease* (Caldarone CA, Busick NP, Behrendt DM, Nims M, Milleman JT, eds). *Virtual Children's Hospital*: 2004.

**Caldarone CA, Nims M:** Problem List. In: *Surgical Correction of Congenital Heart Disease* (Caldarone CA, Busick NP, Behrendt DM, Nims M, Milleman JT, eds). *Virtual Children's Hospital*,: 2004:

**Caldarone CA, Nims M:** Transposition of the great arteries: presentation and background information. In: *Surgical Correction of Congenital Heart Disease* (Caldarone CA, Busick NP, Behrendt DM, Nims M, Milleman JT, eds). *Virtual Children's Hospital*: 2004.

**Culbert EL, Ashburn DA, Cullen-Dean G, Joseph JA, Williams WG, Blackstone EH, McCrindle BW, Congenital Heart Surgeons Society:** Quality of life of children after repair of transposition of the great arteries. *Circulation*: August 2003: 108: pp 857-62.

**Fortuna RS, Ashburn DA, DeOliveira NC, Burkhart HM, Konstantinov IE, Coles JG, Smallhorn JF, Williams WG, Van Arsdell GS:** Atrioventricular septal defects: Effect of bridging leaflet division on early valve function. *Annals of Thoracic Surgery*: March 2004: 77: pp 895-902.

**Freedom RM, Adatia I, Coles JG, Konstantinov I:** Congenital stenosis of the individual pulmonary veins. In: *The Natural And Modified History of Congenital Heart Disease* (Robert M. Freedom, Shi-Joon Yoo, Haverj Mikailian, William G. Williams, eds). Blackwell, New York: 2003: pp 302-305.

**Freedom RM, Yoo S-J, Coles JG:** Atrioventricular septal defect. In: *The Natural And Modified History of Congenital Heart Disease* (Robert M. Freedom, Shi-Joon Yoo, Haverj Mikailian, William G. Williams, eds). Blackwell, New York: 2003: pp 44-55.

**Freedom RM, Yoo S-J, Coles JG:** Congenital abnormalities of the mitral valve. In: *The Natural And Modified History of Congenital Heart Disease* (Robert M. Freedom, Shi-Joon Yoo, Haverj Mikailian, William G. Williams, eds). Blackwell, New York: 2003: pp 99-106.

**Freedom RM, Yoo S-J, Coles JG, Konstantinov I:** Total anomalous pulmonary venous connections. In: *The Natural And Modified History of Congenital Heart Disease* (Robert M. Freedom, Shi-Joon Yoo, Haverj Mikailian, William G. Williams, eds). Blackwell, New York: 2003: pp 282-289.

**Freedom RM, Yoo S-J, Coles JG, Konstantinov I:** Ventricular septal defect. In: *The Natural And Modified History of Congenital Heart Disease* (Robert M. Freedom, Shi-Joon Yoo, Haverj Mikailian, William G. Williams, eds). Blackwell, New York: 2003: pp 16-30.

**Freedom RM, Yoo S-J, Williams WG:** Conditions with double discordance (congenitally corrected transposition of the great arteries). In: *The Natural and Modified History of Congenital Heart Disease* (Freedom, Yoo, Mikailian, Williams, eds). Futura Publishing, New York: 2003: pp 356-365.

- Freedom RM, Yoo S-J, Williams WG:** Double outlet ventricle. In: *The Natural and Modified History of Congenital Heart Disease* (Freedom, Yoo, Mikailian, Williams, eds). Futura Publishing, New York: 2003: pp 370-380.
- Freedom RM, Yoo S-J, Williams WG:** The cavopulmonary shunt. In: *The Natural and Modified History of Congenital Heart Disease* (Freedom, Yoo, Mikailian, Williams, eds). Futura Publishing, New York: 2003: pp 435-448.
- Freedom RM, Yoo S-J, Williams WG:** The Fontan-Kreutzer procedure. In: *The Natural and Modified History of Congenital Heart Disease* (Freedom, Yoo, Mikailian, Williams, eds). Futura Publishing, New York: 2003: pp 449-459.
- Freedom RM, Yoo S-J, Williams WG:** Transposition of the great arteries: arterial repair. In: *The Natural and Modified History of Congenital Heart Disease* (Freedom, Yoo, Mikailian, Williams, eds). Futura Publishing, New York: 2003: pp 323-347.
- Freedom RM, Yoo S-J, Williams WG:** The Rastelli and other procedures for complex transposition of the great arteries. In: *The Natural and Modified History of Congenital Heart Disease* (Freedom, Yoo, Mikailian, Williams, eds). Futura Publishing, New York: 2004: pp 348-355.
- Hammel JM, Caldarone CA, Van Natta TL, Wang LX, Welke KF, Li W, Niles S, Barner E, Scholz TD, Behrendt DM, Segar JL:** Myocardial apoptosis after cardioplegic arrest in the neonatal lamb. *Journal of Thoracic and Cardiovascular Surgery*: July 2003: 125: pp 1268-75.
- Humpl T, Soderberg B, McCrindle BW, Nykanen DG, Freedom RM, Williams WG, Benson LN:** Percutaneous balloon valvotomy in pulmonary atresia with intact ventricular septum: impact on patient care. *Circulation*: September 2003: 108: pp 826-32.
- Karimi M, Wang LX, Hammel JM, Mascio CE, Abdulhamid M, Barner EW, Scholz TD, Segar JL, Li WG, Niles SD, Caldarone CA:** Neonatal vulnerability to ischemia reperfusion: cardioplegic arrest causes greater myocardial apoptosis in neonatal than mature lambs. *Journal of Thoracic and Cardiovascular Surgery*: February 2004: 127: pp 490-97.
- Konstantinov IE, Coles JG, Boscarino C, Takahashi M, Goncalves J, Ritter J, Van Arsdell GS:** Gene expression profiles in children undergoing cardiac surgery for right heart obstructive lesions. *Journal of Thoracic and Cardiovascular Surgery*: March 2004: 127: pp 746-54.
- Konstantinov IE, Williams WG:** Atrial switch and Rastelli operation for congenitally corrected transposition with ventricular septal defect and pulmonary stenosis. In: *Operative Techniques in Thoracic and Cardiovascular Surgery* (Cox JL, ed). Mosby Publishers, Orlando, FL: 2003: pp 160-166.
- O'Blenes SB, Merklinger SL, Jegatheeswaran A, Campbell A, Rabinovitch M, Rebeyka I, Van Arsdell G:** Low molecular weight heparin and unfractionated heparin are both effective at accelerating pulmonary vascular maturation in neonatal rabbits. *Circulation*: September 2003: 108: pp I1161-66.
- Raghuveer G, Caldarone CA, Hills CB, Atkins DL, Belmont JM, Moller JH:** Predictors of prosthesis survival, growth, and functional status following mechanical mitral valve replacement in children aged <5 years, a multi-institutional study. *Circulation*: September 2003: 108: pp I1174-79.
- Sittiwangkul R, Azakie A, Van Arsdell GS, Williams WG, McCrindle BW:** Outcomes of tricuspid atresia in the Fontan era. *Annals of Thoracic Surgery*: March 2004: 77: pp 889-94.
- Sugiyama H, Yoo, SJ, Williams W, Benson LN:** Characterization and treatment of systemic venous to pulmonary venous collaterals seen after the Fontan operation. *Cardiology in the Young*: October 2003: 13: pp 424-30.
- Valsangiacomo ER, Barrea C, Macgowan CK, Smallhorn JF, Coles JG, Yoo SJ:** Phase-contrast MR assessment of pulmonary venous blood flow in children with surgically repaired pulmonary veins. *Pediatric Radiology*: September 2003: 33(9): pp 607-613.
- Van Arsdell GS:** Double outlet right ventricle. In: *Diagnosis and Management of Adult Congenital Heart Disease* (Gatzoulis, Webb, Daubeney, eds). Churchill Livingstone, London, England: 2003: pp 389-398.
- van Dongen EI, Glansdorp AG, Mildner RJ, McCrindle BW, Sakopoulos AG, VanArsdell G, Williams WG, Bohn D:** The influence of perioperative factors on outcomes in children aged less than 18 months after repair of tetralogy of Fallot. *Journal of Thoracic and Cardiovascular Surgery*: September 2003: 126: pp 705-10.
- Williams WG, Ashburn D:** Pulmonary ventricle to pulmonary artery conduits. In: *The Natural and Modified History of Congenital Heart Disease* (Freedom RM, ed). Futura Publishing, New York: 2003: pp 508-512.
- Williams WG, McCrindle BW, Ashburn DA, Jonas A, Mavroudis C, Blackstone EH** and the members of the Congenital Heart Surgeons' Society: Outcomes of 829 neonates with complete transposition of the great arteries 12-17 years after repair. *European Journal of Cardio-thoracic Surgery*: September 2003: 24: pp 1-10.
- Wittnich C, Belanger MP, Askin N, Bandali K, Wallen WJ:** Awash in a Sea of Heavy Metals: Mercury Pollution and Marine Animals (Belanger MP, ed). Oceanographic Environmental Research Society, Toronto: 2004: pp 70.

#### INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

- Caldarone C:** 40th Annual Meeting, Society of Thoracic Surgeons, San Antonio, Texas, January 2004. Invited discussant: Surgical management of congenital and acquired pulmonary vein stenosis.
- Caldarone C:** American Association of Thoracic Surgeons, Toronto, Ontario, May 2004. Invited discussant: Outcomes of mitral valve replacement in children: a competing risks analysis.

**Coles JG:** The American Association for Thoracic Surgery (AATS), Toronto, Ontario, April 2004. ABO incompatible heart transplantation in infants.

**Van Arsdell GS:** Nepalese Society of Cardiovascular Surgery, Kathmandu, Nepal, February 2004. 1 1/2 ventricle repair: managing the small right heart.

**Van Arsdell GS:** Canadian Society of Cardiac Surgeons, Toronto, Ontario, October 2003. Congenital heart surgery: Latest advances.

**Van Arsdell GS:** Canadian Cardiovascular Congress, Toronto, Ontario, October 2003. Congenitally corrected transposition: can we change the tails of this disease? CPCA Meet the Experts Session.

**Van Arsdell GS:** American College of Cardiology: Adult Congenital Heart Disease Symposium, Skamania, WA, June 2004. 1.) Discussant: Redo Fontan surgeries. 2.) How adult congenital heart disease practice changes approaches to pediatric cardiac surgery. 3.) Longterm results and problems in adults: atrial versus arterial switch.

**Van Arsdell GS:** Congenital Heart Surgeons Society, Chicago, IL, September 2003. Impact of pulmonary valve preservation in repair of tetralogy of Fallot.

**Van Arsdell GS:** Cardiology in the Young, Institute of Child Health, London, UK, April 2004. 1.) Perioperative management of Norwood stage I. 2.) Total anomalous pulmonary venous drainage: surgical repair and complications. 3.) Tetralogy of Fallot: From DNA to the dilated right ventricle, can we change the tails of the disease?

**Van Arsdell GS:** American Association for Thoracic Surgeons, Toronto, Ontario, April 2004. Pulmonary atresia, intact ventricular septum repair.

**Van Arsdell GS:** Columbia University Medical Center Rounds, New York, NY, May 2004. Tetralogy of Fallot: From DNA to the dilated right ventricle, can we change the tails of the disease?

**Van Arsdell GS:** Cardiology in the Young, Institute of Child Health, London, UK, April 2004. Waterston Lecture: Tetralogy of Fallot: >From DNA to the dilated right ventricle, can we change the tails of the disease?

**Van Arsdell GS:** Society for Pediatric Radiology, Symposium on Pediatric Cardiovascular MR, Toronto, Ontario, October 2003. What the pediatric cardiac surgeon wants to know.

**Williams WG:** Canadian Cardiovascular Society, Toronto, Ontario, October 2003. 1.) Arrhythmia management in the patient with congenital heart disease. 2.) Transposition of the great arteries from atrial to arterial switch.

**Williams WG:** Adult Congenital Cardiopathology Center, Montreal Cardiology Institute, Montreal, Quebec, January 2004. 1.) Hypertrophic obstructive cardiomyopathy: surgical perspectives. 2.) Management of arrhythmias in adult congenital patients.

**Williams WG:** Society of Thoracic Surgery, San Antonio, Texas, January 2004. Invited commentary: The initial application in the Society of Thoracic Surgery database of a complexity-adjusted method to evaluate surgical results by Jacobs.

## RESEARCH AND INVESTIGATIONS

### *Senior Investigator's Name Appears in Italics*

A training program in cardiovascular research: molecules to humans, heart failure to prevention (TACTICS). *Peter Liu*, 31 co-applicants incl Carin Wittnich: *CIHR* (\$855,000 2002 - 2007).

Early postoperative apoptosis after cardiac surgery in the neonate. *Caldarone CA: American Heart Association Scientist Development Grant* (\$260,000 2002 - 2006).

Impact of gender on myocardial pathology & ischemia/reperfusion (renewal). *Wittnich C: Heart & Stroke Foundation of Ontario* (\$237,404 2001 - 2004).

Impact of gender on myocardial pathology & ischemia/reperfusion (renewal). *Wittnich Carin: Heart & Stroke Foundation of Ontario* (\$249,000 2004 - 2007).

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

Oxygen stress in newborn hearts (renewal). *Wittnich, Carin: Heart & Stroke Foundation of Ontario* (\$387,069 2002 - 2006).

## HONOURS RECEIVED

**Wittnich C:** Awarded technical paper of the Year, American Association for Laboratory Animal Science, November 2003.

**Wittnich C:** member, John Charles Polanyi Prizes Selection Committee, Ontario Council on Graduate Studies (3 yr appointment), May 2004.

**Wittnich C:** Northrop Frye Divisional Award for the Cardiovascular Sciences Collaborative Program, University of Toronto, May 2004.

**Wittnich C:** Pediatric Session Moderator, Canadian Cardiovascular Society Annual Meeting, Toronto, Ontario, October 2003.

## **DIVISION OF GENERAL SURGERY**

**Dr. S.H. Ein - Associate Professor**

**Dr. A.H. Fecteau – Assistant Professor**

**Dr. J.T. Gerstle - Assistant Professor**

**Dr. J. C. Langer – Professor (Division Head)**

**Dr. P.C.W. Kim - Assistant Professor**

**Dr. P. Wales - Assistant Professor**

## **PUBLICATIONS**

**Alloo J, Gerstle JT, Shilyansky J, Ein SH:** Appendicitis in children less than 3 years of age: a 28 year review. *Pediatric Surgery Int*: March 2004; 19: pp 777-779.

**Avitzur Y, Jimenez C, Fecteau A, Jones N, Ngan B, Ng VL:** Interstitial granulomatous pneumonitis associated with sirolimus in a child after liver transplantation. *Journal of Pediatric Gastroenterology and Nutrition*: July 2003; 37(1): pp 91-94.

**Aziz D, Davis V, Allen L, Langer JC:** Ovarian torsion in children: is oophorectomy necessary? *Journal of Pediatric Surgery*: May 2004; 39: pp 750-53.

**Aziz D, Langer JC, Tuuha S, Ryan G, Ein SH, Kim PCW:** Perinatally diagnosed asymptomatic congenital cystic adenomatoid malformation (CCAM): to resect or not? *Journal of Pediatric Surgery*: March 2004; 39: pp 329-34.

**Chen L, Goryachev A, Sun J, Kim P, Zhang H, MacGregor P, Lebel S, Edwards AM, Furuya KN:** Microarray analysis identifies involvement of morphogenetic and laterality pathways in etiopathogenesis of biliary atresia. *Hepatology*: September 2003; 38(3): pp 567-576.

**Chen LE, Minkes RM, Langer JC:** Laparoscopic vs. open surgery for malrotation without volvulus. *Pediatric Endosurgery and Innovative Techniques*: July 2003; 7: pp 433-38.

**Crawford MW, Speakman M, Carver ED, Kim PCW:** Acute chest syndrome shows a predilection for basal lung regions on the side of upper abdominal surgery. *Canadian Journal of Anesthesia*: June 2004.

**Diamond IR, Teckman J, Langer JC:** Laparoscopy in the management of colonic duplication. *Pediatric Endosurgery and Innovative Techniques*: July 2003; 7: pp 439-44.

**Diamond IR, Wales PW, Connolly B, Gerstle JT:** Tissue plasminogen activator for the treatment of intra-abdominal abscess in a neonate. *Journal of Pediatric Surgery*: August 2003; 38: pp 1234-1236.

**Diamond IR, Wales PW, Smith SD, Fecteau A:** Survival after CCAM associated with ascites: A report of a case and review of the literature. *Journal of Pediatric Surgery*: September 2003; 38(9): pp E1-3.

**Dutta S, Wales Pw, Fecteau A:** The Two Week Pediatric Rotation: Is It Time Wasted? *Journal of Pediatric Surgery*: May 2004; 39 (5): pp 717-720.

**Jimenez-Rivera C., Avitzur Y., Fecteau A., Jones N., Grant D., Ng V:** Sirolimus for pediatric liver transplant recipients with post-transplant lymphoproliferative disease and hepatoblastoma. *Pediatric Transplantation*: February 2004; 8: pp 243-48.

**Langer JC, Carpaneto E, Defago V, Le Coultre C, Tam P:** Pediatric surgery of the digestive tract: working group report of the second World Congress of Pediatric Gastroenterology, Hepatology & Nutrition. *Journal of Pediatric Gastroenterology and Nutrition*: January 2004; 39: pp S695-S702.

**Langer JC, Durrant AC, de la Torea ML, Teitelbaum DH, Minkes RK, Caty MG, Wildhaber BE, Ortega SJ, Hirose S, Albanese CA:** One-stage transanal Soave pullthrough for Hirschsprung disease: a multicenter experience with 141 children. *Annals of Surgery*: October 2003; 238: pp 569-76.

**Langer JC, To T:** Does paediatric surgical specialty training affect outcome after Ramstedt pyloromyotomy? A population-based study. *Pediatrics*: May 2004; 113: pp 1342-47.

**Lodha A, Wales PW, James A, Smith CR, Langer J:** Acute Appendicitis with Fulminant Necrotizing Fasciitis in a Neonate. *Journal of Pediatric Surgery*: November 2003; 38/11: pp E53.

**Mah D, Wales PW, Masiakos P, Bohn D, Kim PCW:** Apparent Truth About Congenital Diaphragmatic Hernia: A Population-Based Database is Needed to Establish Benchmarking for Clinical Outcomes for Congenital Diaphragmatic Hernias (CDH). *Journal of Pediatric Surgery*: May 2004; 39(5): pp 661-665.

**Mah D, Wales PW, Njere I, Kortan P, Masiakos P, Kim PCW:** Management of Suspected Common Bile Duct (CBD) Stones in Children: Role of Selective Intraoperative Cholangiogram (IOC) and Endoscopic Retrograde Cholangiopancreatography (ERCP). *Journal of Pediatric Surgery*: June 2004; 39(6): pp 808-812.

**Masiakos P, Gerstle JT, Cheang T, Viero S, Kim PCW, Wales PW:** Is Surgery Necessary for Incidentally Detected Adrenal Masses In Children? *Journal of Pediatric Surgery*: May 2004: 39 (5): pp 754-758.

**Proctor ML, Pastore J, Gerstle JT, Langer JC:** Incidence of Medical Error and Adverse Outcomes on a Pediatric General Surgery Service. *Journal of Pediatric Surgery*: September 2003: 38: pp 1361-1365.

**Tuuha SE, Aziz D, Drake J, Wales PW, Kim PCW:** Is Surgery Necessary for Asymptomatic Tethered Cord in Anorectal Malformation (ARM) Patients? *Journal of Pediatric Surgery*: May 2004: 39 (5): pp 773-777.

**Wales PW:** Controversies in Surgery: Non-Operative Management of Liver and Spleen Injuries in Children. *Audio-Digest General Surgery*: June 2004: 51 (11):

**Wales PW, de Silva N, Kim J, Lecce L, To, T, Moore A:** Neonatal Short Bowel Syndrome: Population-Basted Estimates of Incidence and Mortality Rates. *Journal of Pediatric Surgery*: May 2004: 39 (5): pp 690-695.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Ein SH:** Canadian Association of Paediatric Surgeons, Niagara-on-the-Lake, September 2003. 35th Annual Meeting.

**Ein SH:** Perinatal Intensive Care Nursing Program, George Brown City College - The Hospital for Sick Children, Toronto, Ontario, October 2003. 1). GI Anomalies. 2). Respiratory Anomalies & NEC.

**Ein SH:** American Academy of Pediatrics, New Orleans, LA, October 2003. Section on Surgery.

**Ein SH:** British Association of Paediatric Surgeons, Lisbon, Portugal, July 2003. Seniors Meeting.

**Gerstle JT:** Histiocyte Society, Philadelphia, Pennsylvania, September 2003. Langerhan call histiocytosis in association with neuroblastoma.

**Gerstle JT:** Nepal Medical College, Kathmandu, Nepal, March 2004. Minimal Access Surgery in Children.

**Gerstle JT:** American Academy of Pediatrics, Oncology Section, New Orleans, Louisiana, October 2003. Unusual Cancers of Childhood: Carcinoid Tumours.

**Langer JC:** International Pediatric Colorectal Club, New Hyde Park, New York, May 2004. 1). An organized approach to management of persistent obstructive symptoms after surgery for Hirschsprung's disease. 2). Development of standardized criteria for the diagnosis of Hirschsprung's associated with enterocolitis: a proposal.

**Langer JC:** 23rd International Congress of Radiology, Montreal, Quebec, June 2004. Appendicitis - the surgeon's view.

**Langer JC:** 3rd William Dennis Memorial Lecture, Univeristy of the West Indies, Kingston, Jamaica, June 2004. Minimal access surgery in children.

**Langer JC:** British Association of Paediatric Surgeons, Estoril, Portugal, July 2003. Persistent obstructive symptoms after surgery for Hirschsprung's disease: development of a diagnostic and therapeutic algorithm.

**Langer JC:** Population Health Sciences Rounds, The Hospital for Sick Children, Research Institute, Toronto, Ontario, May 2004. Should all children be operated on by a pediatric surgeon ? A population based study.

**Langer JC:** Annual Regional Paediatric/GP Breakfast Rounds, Rouge Valley Health System, Scarborough, Ontario, June 2004. The acute abdomen: is it appendicitis ?

**Langer JC:** Program on Emerging Technologies, American Pediatric Surgical Association, Jacksonville, Florida, May 2004. The internet and email: how these technologies can enhance your practice.

**Kim PCW:** International Pediatric Endosurgery Group, Maui, Hawaii, May 2004. Gastric duplication cyst: approaches to subdiaphragmatic space.

**Kim PCW:** International Fetal Medicine & Surgery Society, Charleston, SC, March 2004. Genetic control of diaphragmatic hernia.

**Kim PCW:** American Pediatric Surgical Association, Vendra Beach, Florida, May 2004. Thorascopic thymectomy.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

A multi-center group to study acute liver failure. (a per/patient-based study). *Ng V, Fecteau A: National Institute of Health* (\$400 2003 - 2005).

A multicenter study of the clinical outcomes of the Nuss and Ravitch procedures for the repair of pediatric pectus excavatum. (A per/patient-based study). *Fecteau, AH, Langer, J: Children's Hospital of the King's Daughters (CHKD)* (\$22,050 2003 - 2005).

A pilot study for the development of a health-related quality of life index for paediatric liver transplant recipients: Initial item generation phase. *Ng VL, Nicholas D, Thompson J, Fecteau A: Hospital for Sick Children* (\$5,221 2003 - 2005).

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

Development of a disease specific health related quality of life questionnaire for pediatric post-liver transplant patients: Initial item generation. Ng V, Thompson J., Nicholas D., Fecteau A: *Pediatric Consultants* (\$5,000 2004 - 2005).

Developmental Pathways in Hindgut Embryogenesis. Kim PCW: *Canadian Institute of Health Research* (\$340,000 2002 - 2005).

Molecular and Cellular Control of Cardiac Xenograft Rejection. Kim PCW: *Heart and Stroke Foundation of Canada* (\$228,132 2001 - 2004).

Molecular and Cellular Mechanisms of Gut Development. Kim PCW: *March of Dimes Birth Defects Foundation, USA* (\$330,000 2002 - 2005).

Optimizing cyclosporine exposure in paediatric liver transplant patients by the use of c2 monitoring. Ng V, Fecteau a, Mouat S, Deluca E, Bossert A: *Novartis Pharmaceuticals* (\$7,000 2003 - 2004).

Pain in child health research training consortium. Langer JC, McGrath PJ, et al (PI's); Feldman B, Taddio A, Baruchel S, Brown S, Koren G: *Canadian Institute for Health Research* (\$1,800,000 2002 - 2008).

Pain Management for Incarcerated Inguinal Hernia Reduction by Pediatric Emergency Physicians and Pediatric Surgeons: A North American Survey. Goldman R, Wales PW: *University of Toronto, Continuing Education* (\$5,000 2003 - 2004).

Prevention of Delayed Cardiac Xenograft Rejection by Modulation of the Potent FGL2 Prothrombinase Gene. Grant DR, Gorczynsk Ri, Levy G: *Heart & Stroke Foundation of Ontario* (\$215,158 2002 - 2005).

Surgery for perforated necrotizing enterocolitis in human infants: a randomized trial. Langer JC, Moore A: *National Institutes of Health, R01 HD 38462 (Multicenter Trial)* (\$750 2001 - 2004).

The Community-Based Materno-Fetal Health Network. Kim PCW, Wales PW: *The Ontario Ministry of Health* (\$1,877,500 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).

The Group for The Improvement of Intestinal Function and Treatment: Development of Electronic Database. Wales PW: *The Hospital for Sick Children, Josie Walther Fund* (\$15,000 2004 - 2005).

## HONOURS RECEIVED

**Ein SH:** Retirement Dinner, Toronto, Ontario, September 2003.

**Langer JC:** Principles of Surgery Best Lecturer Award, University of Toronto, October 2003.

**Langer JC:** William Dennis Memorial Lectureship, University of West Indies, June 2004

**Wales P:** Family Advisory Committee Ward, Humanitarian Award Nominee, The Hospital for Sick Children Foundation, March 2004.



## DIVISION OF NEUROSURGERY

**Dr. M. Dennis - Professor**

**Dr. P.B. Dirks - Assistant Professor**

**Dr. J. Drake – Professor (Division Head)**

**Dr. R.P. Humphreys - Professor**

**Dr. A. Kulkarni - Assistant Professor**

**Dr. J.T. Rutka – Professor**

## PUBLICATIONS

**Al-Gahatany M, Shroff M, Bouffet E, Dirks P, Drake J, Humphreys R, Laperriere N, Hawkins C, Rutka J:** Primary central nervous system sarcomas in children: clinical, radiological, and pathological features. *Child's Nervous System*: December 2003: 19: pp 808-817.

**Bakish J, Hargrave D, Tariq N, Laperriere N, Rutka JT:** Evaluation of dietetic intervention in children with medulloblastoma or supratentorial primitive neuroectodermal tumors. *Cancer*: September 2003: 98(5): pp 1014-1020.

**Blount J, langhurst W, Otsubo H, Chitoku S, Ochi A, Weiss S, Snead OC, Rutka JT:** Multiple Subpial Transections in the Treatment of Pediatric Epilepsy. *Journal of Neurosurgery*: December 2003: 100: pp 118-124.

**Bos J.T, Rempel S.A. Rutka JT:** International Hermelin Brain Tumor Symposium on Matricellular Proteins in Normal and Cancer Cell-Matrix Interactions. *Matrix Biology*: May 2004: 23/1: pp 64-70.

**Capra M, Wherrett D, Weitzman S, Dirks P, Hawkins C, Bouffet E:** Pituitary stalk thickening and primary central nervous system lymphoma. *Journal of Neuro-Oncology*: March 2004: 67: pp 227-231.

**Chuang N, Willinsky R, Armstrong D, Dirks P, Drake J:** Slow-flow spinal epidural arteriovenous fistulas with venous ectasias: Two pediatric case reports. *American Journal of Neuroradiology*: October 2003: 24(9): pp 1901-1905.

**Clarke DE, Otsubo H, Weiss S, Chitoku S, Chuang S, Logan W, Smith M, Elliot I, Pang E, Rutka JT, Snead OC:** The Significance of Ear Plugging in Localization-related Epilepsy. *Epilepsia*: August 2003: 44(12): pp 1562-1567.

**Dennis M, Edelstein K, Hetherington R, Copeland K, Frederick J, Blaser SE, Kramer LA, Drake JM, Brandt M, Fletcher JM:** Neurobiology of perceptual and motor timing in children with spina bifida in relation to cerebellar volume. *Brain*: April 2004: 127(6): pp 1292-1301.

**Dirks P B:** Genetics of Hydrocephalus. In: *Pediatric Hydrocephalus* (Ste Rose C, Cinalli G, Maixner W, eds). Mac Keith Press Publications, London: 2004: pp 1-17.

**Follett KA, Boortz-Marx RL, Drake JM, DuPen S, Schneider SJ, Turner MS, Coffey RJ:** Prevention and management of intrathecal drug delivery and spinal cord stimulation system infections. *Anesthesiology*: June 2004: 100(6): pp 1582-1594.

**Ganesh A, Dondy J, Forte V, Drake JM, Gentili F, Armstrong D, Phillips J, Buncic JR:** Orbital involvement by nasopharyngeal angiofibroma. *Journal of Pediatric Ophthalmol. Strabismus*: March 2004: 41(2): pp 116-121.

**Hader W, MacKay M, Otsubo H, Chitoku S, Weiss S, Becker L, Snead OC, Rutka JT:** Cortical Dysplastic Lesions in Children with Intractable Epilepsy: Role of Complete Resection. *Journal of Neurosurgery*: December 2003: 100: pp 110-117.

**Hargrave D, Bouffet E, Gammon J, Becker L, Rutka J, Baruchel S:** Response to low dose temozolomide in radiation induced gliomatosis. *Medical Pediatric Oncology*: December 2003: 41(6): pp 562-564.

**Iantosca MR, Hader WJ, Drake JM:** Results of endoscopic third ventriculostomy. *Neurosurgery Clinics of North America*: January 2004: 15(1): pp 67-75.

**Kuo JS, Rutka JT:** Advances in Understanding the Molecular Biology of Brain Tumors. *Journal Korean Neurosurgical Society*: January 2004: 35: pp 1-11.

**Nolan MA, Sakuta R, Chuang N, Otsubo H, Rutka JT, Snead OC, Hawkins CE, Weiss SK:** Dysembryoplastic Neuroepithelial Tumors in Childhood. *Neurology*: February 2004: 62: pp 2270-2276.

**Park PC, Taylor MD, Mainprize T, Becker L, Ho M, Dura WT, Squire J, Rutka JT:** Transcriptional profiling of medulloblastoma in children. *Journal of Neurosurgery*: September 2003: 99: pp 534-541.

**Peraud A, Illner A, Rutka JT:** Intraventricular Congenital Lesions and Colloid Cysts. *Neurosurgery Clinics of North America*: October 2003: 14:4: pp 607-619.

**Peraud A, Mondal S, Hawkins C, Mastronardi M, Bailey K, Rutka JT:** Expression of fascin, an actin-bundling protein, in astrocytomas of varying grades. *Brain Tumor Pathology*: December 2003: 100: pp 118-124.

**Rutka JT, Carloyyi C, Iantosca M:** Encephaloceles. In: *Youmans Neurological Surgery, Fifth Edition* 2003: 2003: pp 3198-3213.

**Sadanand V, Kankesan J, Yusuf A, Stewart C, Rutka JT, Thiessen JJ, Ling V, Rao PM, Rajalakshmi S, Sarma DS:** Effect of PSC 833, a potent inhibitor of P-glycoprotein, on the growth of astrocytoma cells in vitro. *Cancer Letters*: July 2003: 198(1): pp 21-27.

**Singh SK, Clarke ID, Terasaki M, Bonn V, Hawkins C, Squire J, Dirks PB:** Identification of a Cancer Stem Cell in Human Brain Tumours. *Cancer Research*: September 2003: 63: pp 5821-5828.

**Spiegler BJ, Bouffet E, Greenberg ML, Rutka JT, Mabbott DJ:** Change in Neurocognitive Functioning After Treatment with Cranial Radiation in Childhood. *Journal of Clinical Oncology*: February 2004: 22 (4): pp 706-713.

**Taylor MD, Zhang X, Liu L, Hui C, Mainprize TG, Scherer SW, Wainwright B, Hogg D, Rutka JT:** Failure of a medulloblastoma derived mutant of SUFU to suppress WNT signaling. *Oncogene*: April 2004: 23: pp 4577-4583.

**Timothy J, Chumas P, Chakrabarty A, Drake JM, Morrison E:** Destruction of choroid plexus cells in vitro: a new concept for the treatment of hydrocephalus? *Neurosurgery*: March 2004: 54(3): pp 727-732.

**Tuuha SE, Aziz D, Drake J, Wales P, Kim PC:** Is surgery necessary for asymptomatic tethered cord in anorectal malformation patients. *Journal of Pediatric Surgery*: May 2004: 39(5): pp 773-777.

**van Furth WR, Laughlin S, Taylor MD, Salhia B, Mainprize T, Henkelman M, Cusimano M, Ackerley C, Rutka JT:** Imaging of Murine Brain Tumors Using a 1.5 Tesla Clinical MRI System. *The Canadian Journal of Neurological Sciences*: July 2003: 30-4: pp 326-332.

**Yokota N, Mainprize TG, Taylor MD, Kohata T, Loreto M, Ueda M, Dura W, Grajkowska W, Kuo JS, Rutka JT:** Identification of differentially expressed and developmentally regulated genes in medulloblastoma using suppression subtraction hybridization. *Oncogene*: April 2004: 23: pp 3444-3453.

#### INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Dirks PB:** The American Society of Gene Therapy, 7th Annual Meeting, Minneapolis, MN, June 2004. *Cancer Stem Cells in Human Brain Tumors*.

**Dirks PB:** Pediatric Section Meeting of the American Association of Neurological Surgeons, Salt Lake City, UT, December 2003. *Cancer Stem Cells: Seeds of Brain Tumors*.

**Dirks PB:** The Leukemia and Lymphoma Society (USA), Workshop: "Malignant Stem Cells in Leukemia and Solid Tumors", Cambridge, Ontario, May 2004. *CD133+ Human Brain Tumor Stem Cells are Brain Tumor Stem Cells in vitro and in vivo*.

**Dirks PB:** Canadian Congress of neurological Sciences (Advances in Neuro-Oncology Course), Calgary, AB, June 2004. *CNS Tumor Stem Cells*.

**Dirks PB:** Cancer Stem Cells and the Regulation of Self Renewal Think Tank (NIH/NCI), Bethesda, MD, March 2004. *Human Brain Tumor Stem Cells*.

**Dirks PB:** Canadian Federation of Biological Sciences, First Northern Lights Summer Conference, Vancouver, BC, June 2004. *Identification of Human Brain Tumor Stem Cells*.

**Drake J M:** American Association of Neurological Surgeons - Annual Meeting, Orlando, Florida, May 2004. 1) Update on Pediatric Neurosurgery, Talk: Hydrocephalus, 2) Discussant for Scientific Session: Lack of Ventricular Response on Head CT in Pediatric Shunted Patients with Surgery proven Hydrocephalus.

**Drake J M:** Annual General Meeting of the Spina Bifida and Hydrocephalus Association of Ontario, Toronto, Ontario, October 2003. *Keynote Speaker: Today, Tomorrow and Beyond*.

**Drake J M:** Children's Hospital of Eastern Ontario, Ottawa, Ontario, June 2004. *Stanley Mercer Visiting Professorship: 1) Pediatric Hydrocephalus Treatment - Managing the Risk, 2) Minimally Invasive Shunt Revision, 3) Mathematical Modeling of Hydrocephalus*.

**Drake J M:** First STARS Symposium, Dearborn, Michigan, May 2004. *Talk: ICP Management in Hydrocephalus - Beautiful Theories and Ugly Facts*.

**Humphreys RP:** The European Society for Paediatric Neurosurgery., Edinburgh, Scotland, March 2004. (1) AVM in childhood - Surgery. (2) Solve-a-Case. (3) Teach the teachers.

**Humphreys RP:** XVII Congresso Mexicano de Cirugia Neurologica, Monterey, Mexico, July 2003. (1) AVM in children. (2) Behaviour of cerebral tumors in children. (3) Are AVMs the same in adults and children?

**Humphreys RP:** Department of Neurosurgery - Mayo Clinic., Rochester, MN, October 2003. *Contemporary thoughts on the management of paediatric ACMS*.

**Humphreys RP:** The International Society for Pediatric Neurosurgery - 31st Annual Meeting., Monte Carlo, Monaco, September 2003. *Management of paediatric arteriovenous malformations. The realities of operative excision. (Chairman)*.

**Rutka JT:** 10th Anniversary b.r.a.i.n. child, Mississauga, Ontario, September 2003. *10th Annual Pediatric Brain Tumor Conference*.

**Rutka JT:** Advances in Pediatric Neurosciences symposium, Riyadh, Saudi Arabia, March 2004. Advances in Molecular Genetics of Brain Tumors in Children.

**Rutka JT:** Congress of Neurological Surgeons 53rd Annual Meeting, Denver, Colorado, October 2003. Advances in the Surgical Management of Epilepsy.

**Rutka JT:** 2004 American Association of Neurological Surgeons, Orlando, Florida, May 2004. 1). Bittner Lectureship: The Pathogenesis of Human Brain Tumors: Clues from Disordered Neuroembryogenesis. 2). Biology of Gliomas.

**Rutka JT:** International Society of Craniofacial Surgery Xth International Congress, Monterey, California, September 2003. 1). Comparison of Early Extended Strip Craniectomy (ESC) Versus Total Cranial Vault Reshaping (TCV) in Sagittal Synostosis: CT and Clinical Assessment. 2). Complications Following the Surgical Management of Non-Syndromic Unicoronal Synostosis in Infancy.

**Rutka JT:** New York Brain Tumor Symposium, New York, USA, May 2004. Current and Future Management of Malignant Brain Tumors.

**Rutka JT:** 2004 American Association of Neurological Surgeons, Orlando, Florida, May 2004. 1). Current treatment options for pediatric epilepsy. 2). Mutations in the Sonic Hedgehog Pathway Enhance Medulloblastoma Formation. 3). State-of-the-Art Treatments for Low Grade Gliomas. 4). The Management and expected outcomes for patients with craniopharyngiomas.

**Rutka JT:** Annual Meeting of American Association of Neurological Surgeons, Colonial Williamsburg, Virginia, October 2003. Identification of Differentially Expressed and Developmentally Regulated Genes in Medulloblastoma Using Suppression Subtractive Hybridization.

**Rutka JT:** Jacobson Lecture, State University of New York, Upstate Medical University, Syracuse, NY, March 2004. Malignant Gliomas and the Brain Microenvironment.

**Rutka JT:** Society of Neuro-Oncology Annual Meeting, Keystone, Colorado, November 2003. Management of Pediatric NST.

**Rutka JT:** Congress of Neurological Surgeons 53rd Annual Meeting, Denver, Colorado, October 2003. 1). Moderator: Section on Tumors. 2). Multimodality Treatment of Malignant Gliomas.

**Rutka JT:** 33rd Annual Visiting Kahn Professor, University of Michigan, Ann Arbor, MI, November 2003. Molecular Biology of Brain Tumors.

**Rutka JT:** RUNN (Research Update in Neuroscience for Neurosurgeons), Woodshole, MA, November 2003. Molecular Biology of Brain Tumors.

**Rutka JT:** Advances in Pediatric Neurosciences Symposium, Riyadh, Saudi Arabia, March 2004. Neurosurgical Management of Brain Stem Tumors in Children.

**Rutka JT:** Visiting Professor Neuro-Oncology Update at the University of Tennessee, Tennessee, Memphis, May 2004. Present and Future Management of Medulloblastoma in Children.

**Rutka JT:** International Society for Pediatric Neurosurgery 31st Annual Meeting, Monte Carlo, Monaco, September 2003. Result of stereotactic radiosurgery (SRS) for brain arteriovenous malformations in children.

**Rutka JT:** 31st Annual Meeting International Society of Pediatric Neurosurgery, Monte Carlo, Monaco, September 2003. The molecular pathogenesis of pediatric brain tumors.

## RESEARCH AND INVESTIGATIONS

### *Senior Investigator's Name Appears in Italics*

A molecular-epidemiologic case-control study of pediatric brain tumours in Ontario. *McLaughlin J, Malkin D, Rutka J, Wells P, Greenberg M: National Cancer Institute (\$506,237 2001 - 2004).*

Analysis of Stem Cells in Pediatric Brain Tumors. *Peter Dirks: Hospital for Sick Children Foundation (\$32,000 2002 - 2004).*

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

Cytoskeletal: Matrix interactions regulating astrocytoma tumorigenicity. *Rutka JT: Medical Research Council of Canada Scientist Award (\$300,000 1999 - 2004).*

Determination of novel genes expressed by Paediatric Ependymomas. *Rutka JT: B.r.a.i.n.child (\$20,000 2003 - 2004).*

Eppendorf Thermomixer, Mini-Protean 3 Electrophoresis System and Pipettes. *Rutka JT: b.r.a.i.n.child (\$6,682 2003 - 2004).*

Gli2 as a Target for the Treatment of Medulloblastoma. *Rutka JT: Ontario Institute Cancer Research (\$443,262 2003 - 2006).*

Mathematical and computer modelling of hydrocephalus. *Sivaloganathan S, Drake JM, Tenti P: NSERC Collaborative Health Research Grant (\$227,625 2002 - 2005).*

Mouse Imaging Centre for Canada. *Henkelman, RM, JT Rutka, C Hui, C McKerlie, FS Foster, J Cuticchia, J Rossant, M Rabinovitch, P Backx, SL Adamson: Canadian Foundation for Innovation, Canadian Institutes of Health Research (\$5,294,947 2000 - 2005).*

Neurobehavioral outcome of head injury in children. *Levin HS, Dennis M, Barnes MA, Rutka JT, MacGregor D, Schachar R, Blaser S, Inwood S, Purvis K, Hanfling M, McCluggage C, Treadwell-Deering D, Valadka A, McCauley S, Song J, Gill A, Wesson D, Brookshire B, Francis D, Davidson K, Kaufman J, Max J, Lansing A, Logan G, Martin R, Chapman S, Mendelsohn D, Bruce D, McColl R, Kowatch R, Roach E, Ewing-Cobbs L, Fletcher J, Clifton G, Saunders A, Yeakley J: National Institutes of Health/National Institute of Neurological Diseases and Stroke* (\$655,223 1998 - 2003).

Pediatric posterior fossa tumors: Preoperative predictors of chronic hydrocephalus. *Dr. Jay Riva-Cambrin, Dr. J.M. Drake: The Physicians' Services Incorporated Foundation* (\$20,000 2004 - 2005).

Signaling and degradation network of Toronto, SIDNET. *Rotin D, Rutka JT: Canadian Centre for Applied Cancer Genetics* (\$5,185,329 2002 - 2004).

Sonic hedgehog and WNT signaling blockade as a treatment for paediatric medulloblastoma. *Rutka JT, Hawkins C: Katie's Kids for the Cure ("Foundation")* (\$150,000 2002 - 2004).

The Role of Gli 2 in Medulloblastoma. *Rutka JT, Mainprize T: Pediatric Brain Tumor Foundation of the United States* (\$140,000 2002 - 2003).

The role of Glial Cells Missing in brain development and Cancer. *Rutka, JT: B.r.a.i.n.child* (\$20,000 2003 - 2004).

The role of human suppressor of fused in medulloblastoma. *Rutka JT, Hogg D: National Cancer Institute of Canada* (\$450,000 2002 - 2004).

Transcriptional Basis for the formation of isochromosome 17q in Medulloblastoma. *Rutka JT: B.r.a.i.n.child* (\$20,000 2003 - 2004).

## HONOURS RECEIVED

**Dirks PB:** Canada's Top 40 Under 40 (Report on Business Magazine, Caldwell Partners), May 2004.

**Drake J M:** To Dr. Jay Riva-Cambrin, Resident, Surgeon Scientist Fellowship from Johnson and Johnson Medical Products, November 2003.

**Humphreys RP:** Alan R. Hudson Postgraduate Teaching Award. Division of Neurosurgery, University of Toronto, July 2003.

**Humphreys RP:** American Association of Neurological Surgeons Donald B. Matson Memorial Lecturer, July 2003.

**Humphreys RP:** Bonnie E. Charbonneau Award of Distinction. Spina Bifida and Hydrocephalus Association of Ontario, July 2003.

**Humphreys RP:** Claus Wirsig Humanitarian Award. Hospital for Sick Children, July 2003.

**Rutka JT:** Grass Award at the Society of Neurological Surgeons Annual Meeting, New Orleans, Louisiana, May 22-24, 2004.

**Rutka JT:** The Ronald L. Bittner Lecturer at the 2004 AANS Annual meeting in Orlando, Florida May 1-6, May 2004.

## **DIVISION OF ORTHOPAEDIC SURGERY**

**Dr. B.A. Alman - Associate Professor**

**Dr. W.G. Cole – Professor (Division Head)**

**Dr. D.M. Hedden - Associate Professor**

**Dr. A. Howard – Assistant Professor**

**Dr. R.B. Salter - Professor**

**Dr. U.G. Narayanan - Assistant Professor**

**Dr. J.H. Wedge - Professor**

**Dr. J.G. Wright - Professor**

## **PUBLICATIONS**

**Alman BA, Raza SN, Biggar D:** Steroid treatment and the development of scoliosis in males with Duchenne Muscular Dystrophy. *Journal of Bone and Joint Surgery (American)*: March 2004: 86-A (3): pp 519-24.

**Beveridge M, Howard AW, Burton K, Holder W:** The Ptolemy Project: A scalable model for delivering health information in Africa. *BMJ*: October 2003: 327: pp 790-793.

**Bourne RB, Maloney WJ, Wright JG:** An AOA critical issue: The outcome of the outcomes movement. *Journal of Bone and Joint Surgery (American)*: March 2004: 86-A(3): pp 633-640.

**Cheon S, Nadesan P, Poon R, Alman BA:** Growth factors regulate Beta-Catenin mediated TCF-dependent transcriptional activation in fibroblasts during the proliferative phase of wound healing. *Experimental Cell Research*: February 2004: 293(2): pp 267-74.

**Cole WG:** Skeletal dysplasias reveal genes of importance in skeletal development and structure. *Connective Tissue Research*: July 2003: 44 Suppl 1: pp 246-249.

**Cole, WG:** Structure of Growth Plate. In: *Pediatric Bone: Biology & Diseases* (Glorieux FH, Pettifor JM, Jueppner H, eds). Academic Press, San Diego: 2003: pp 1-41.

**Davis AM, Badley EM, Beaton DE, Kopec J, Wright JG, Young NL, Williams JI, Bourne R:** Rasch analysis of the Western Ontario McMaster (WOMAC) Osteoarthritis index: Results from community and arthroplasty samples. *Journal of Clinical Epidemiology*: November 2003: 56(11): pp 1076-1083.

**Denys H, De Wever O, Nusgens B, Kong Y, Le A, Van Dam K, Jadidzadeh A, Mareel M, Alman BA, Cassiman JJ:** Invasion and MMP expression profile in desmoid tumors. *British Journal of Cancer*: May 2004: 90(7): pp 1443-9.

**Denys H, Jadidzadeh A, Amini NS, Van Dam K, Aerts S, Alman BA, Cassiman JJ, Tejpar S:** Identification of IGFBP-6 as a significantly downregulated gene by beta-catenin in desmoid tumors. *Oncogene*: January 2004: 23(3): pp 654-64.

**Emam A, Sennah K, Howard AW, Hale I:** Influence of Crash Severity and Contact Surfaces Characteristics on the Dynamic Behavior of Forward Facing Child Occupants. *International Journal of Crashworthiness*: November 2003: 8: pp 6.

**Emery D, Alman BA:** Muscular dystrophy. In: *Orthopaedic Surgery Essentials: Pediatrics* (Cramer and Schert, ed). Lippincott Williams and Wilkins, Philadelphia: 2004: pp 211-216.

**Glazier RH, Badley EM, Wright JG, Coyte PC, Williams JI, Harvey B, Wilkins AL, Hawker GA:** Patient and provider factors related to comprehensive arthritis care in a community setting in Ontario, Canada. *Journal of Rheumatology*: August 2003: 30(8): pp 1846-1850.

**Graham B, Regehr G, Wright JG:** Delphi as a method for establish consensus for diagnostic criteria. *Journal of Clinical Epidemiology*: December 2003: 56(12): pp 1150-1156.

**Harvey BJ, Wilkins AL, Hawker GA, Badley EM, Coyte PC, Glazier RH, Williams JI, Wright JG:** Using publicly-available directories to trace survey non-responders and calculate adjusted response rates. *Am J Epidemiol*: November 2003: 158(10): pp 1007-1011.

**Hecht, J.T., Makitie, O., Hayes, E., Haynes R, Susic, M., Montufar-Solis, D., Duke PJ, Cole, W.G.:** Chondrocyte cell death and intracellular distribution of COMP and Type IX collagen in the pseudoachondroplasia growth plate. *Journal of Orthopaedic Research*: June 2004: 22: pp 759-67.

**Hopyan S, Alman BA:** Genetics. In: *Orthopaedic Surgery Essentials: Pediatrics* (Cramer and Schert, ed). Lippincott Williams and Wilkins, Philadelphia: 2004: pp 333-339.

**Howard AW, MacArthur C:** Barriers to booster seat use in Canada. *Paediatrics & Child Health*: June 2004: 9: pp 309-311.

**Howard AW, Moses McKeag A, Rothman L, Comeau JL, Monk B, German A:** Ejections of Young Children in Motor Vehicle Crashes. *Journal of Trauma*: July 2003: 55: pp 126-129.

- Howard AW, Wainwright A:** Ankle Fractures. In: Pediatrics (Cramer K, Scherl S, Tornetta III P, Einhorn T, eds). Lippincott Williams & Wilkins, Philadelphia: 2003: pp 445.
- Howard JC, Varallo VM, Ross DC, Roth JH, Faber KJ, Alman BA, Gan BS:** Elevated levels of beta-catenin and fibronectin in three-dimensional collagen cultures of Dupuytren's disease cells are regulated by tension *in vitro*. BMC Musculoskeletal Disorders: July 2003: 4(1): pp 16.
- Jackson GC, Barker FS, Jakkula E, Czarny-Ratajczak M, Makitie O, Cole WG, Wright MJ, Smithson SF, Suri M, Rogala P, Mortier GR, Baldock C, Wallace A, Elles R, Ala-Kokko L, Briggs MD:** Missense mutations in the beta strands of the single A-domain of matrilin-3 result in multiple epiphyseal dysplasia. Journal of Medical Genetics: January 2004: 41: pp 52-59.
- Macpherson A, Rothman L, Moses McKeag A, Howard AW:** Mechanism of Injury Affects Six Month Functional Outcome in Children Hospitalized Because of Severe Injuries. Journal of Trauma: September 2003: 55: pp 454-458.
- Makitie O, Doria A, Kooh SW, Cole WG, Daneman A, Sochett E:** Early treatment improves growth and biochemical and radiographic outcomes in X-linked hypophosphotemic rickets. Journal of Clinical Endocrinology and Metabolism: August 2003: 88: pp 3591-7.
- Makitie O, Ellis L, Durie PR, Morrison JA, Sochett EB, Rommens JM, Cole WG:** Skeletal phenotypes in patients with Shwachman-Diamond syndrome and mutations in SBDS. Clinical Genetics: February 2004: 65: pp 101-112.
- Makitie O, Mortier GR, Czarny-Ratajczak M, Wright MJ, Suri M, Rogala P, Freud M, Jackson GC, Jakkula E, Ala-Kokko L, Briggs MD, Cole WG:** Clinical and radiographic findings in multiple epiphyseal dysplasia caused by MATN3 mutations - description of 12 patients. American Journal of Medical Genetics: March 2004: 125A: pp 278-284.
- Makitie O, Savarirayan R, Bonafe L, Susic M, Superti-Furga A, Cole WG:** Autosomal recessive multiple epiphyseal dysplasia with homozygosity for C653S in the DTDST gene: double-layer patella as a reliable sign. American Journal of Medical Genetics: October 2003: 122A: pp 187-92.
- Narayanan UG, Hyman J, Wainwright A, Rang M, Alman BA:** Complications of flexible intramedullary nailing of pediatric femur fractures, and how to avoid them. J Pediatr Orthop. 2004 Jul-Aug;24(4):363-369. Journal of Pediatric Orthopaedics: June 2004: 24(4): pp 363-369.
- Peraud A, Drake JM, Armstrong D, Hedden DM, Babyn P, Wilson G:** Fatal Ethibloc Embolization of Vertebrobasilar System following Percutaneous Injection into Aneurysmal Bone Cyst of the Second Cervical Vertebra. American Journal of Neuroradiology: June 2004: 25: pp 1116\*1120.
- Ridanpaa M, Ward L, Rockas S, Sarkioja M, Makela H, Susic M, Glorieux FH, Cole WG, Makitie O:** Genetic changes in the RNA components of RNase MRP and RNase P in Schmid metaphyseal chondrodysplasia. Journal of Medical Genetics: October 2003: 40: pp 741-746.
- Roposch A, Bhaskar A, Lee F, Adedapo S, Mousny M, Alman BA:** Orthopaedic manifestations of Brachmann-de Lange syndrome: a report of 34 patients. Journal of Pediatric Orthopaedics: March 2004: 13(2): pp 118-22.
- Rothenstein J, Howard AW, Parkin P, Khambalia A, Macarthur A:** Community Paediatricians' Counseling Patterns and Knowledge of Recommendations relating to Child Restraint Use in Motor Vehicles. Injury Prevention: April 2004: 10: pp 103-106.
- Salter R:** The child with a limp. In: The Oxford textbook of primary medical care (Jones, Britten Culpepper Grol, Mark and Silagy, eds). Oxford Press, vol 2 chapter 10.8: 2003: pp 1025.
- Tolg C, Poon R, Fodde R, Turley E, Alman BA:** Genetic deletion of receptor for hyaluronan-mediated motility (Rhamm) attenuates the formation of aggressive fibromatosis (desmoid tumor). Oncogene: October 2003: 22(44): pp 6873-82.
- Unni G. Narayanan:** Current Concepts in the Treatment of Slipped Capital femoral Epiphysis. Canadian Orthopaedic Association Bulletin: August 2003: 62: pp 21-22.
- Wenstrup RJ, Florer JB, Cole WG, Willing MC, Birk DE:** Reduced type I collagen utilization: A pathogenic mechanism in COL5A1 haplo-insufficient Ehlers-Danlos syndrome. Journal of Cellular Biochemistry: March 2004: 92: pp 113-124.
- Yu C, Le A, Yeger H, Perbal B, Alman BA:** Nov (Ccn3) regulation in the growth plate and CCN family member expression in cartilage neoplasia suggests a role in chondrocyte differentiation. Journal of Pathology: December 2003: 201(4): pp 609-15.
- INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**
- Alman BA:** Canadian Orthopaedic Association, Winnipeg, Manitoba, October 2003. Acceptance of Royal College of Physicians and Surgeons of Canada Medal in Surgery.

**Alman BA:** Pediatric Society of North America (POSNA), St. Louis, MO USA, March 2004. Are Simple Bone Cysts derived from vascular progenitors.

**Alman BA:** Ste. Justine Paediatric Orthopaedic Review Course, Montreal, Quebec, March 2004. 1). Back Pain in Children or Back Pack Syndrome? 2). Developmental Biology in paediatric Orthopaedics.

3). Malignant Bone Tumors in Children: Clues to Diagnosis and Management.

**Alman BA:** University of California at Davis, California, USA, March 2004. Developmental Biology in musculoskeletal pathology: from tumors to stem cells.

**Alman BA:** University of Kansas -- Grand Rounds, Kansas City, USA, October 2003. Developmental Biology in Orthopaedics.

**Alman BA:** International Paediatric Orthopaedic Symposium, San Diego, CA, December 2003. 1). Genetics of skeletal dysplasias. 2). Tumors: Diagnosis and management.

**Alman BA:** International Skeletal Dysplasia Society 6th Annual Meeting, Warrenton, Virginia, USA, August 2003. R150C PTHR1 mutation and Gli transcription factors in enchondromatosis.

**Alman BA:** Portland Shrine Hospital, Portland, Oregon, July 2003. 1). What is new in Duchenne Muscular Dystrophy. 2). What pathology teaches us about normal development: The Gli genes in chondrocytes.

**Alman BA:** Children's Hospital of Eastern Ontario -- James Wiley Visiting Professor, Ottawa, Ontario, March 2004. 1). What's New in Duchenne's Muscular Dystroph: New Treatment in the absence of gene therapy. 2). What's New in Musculoskeletal tumor management.

**Cole WG:** Canadian Arthritis Network, Centres of Excellence, Annual Scientific Meeting, Montreal, November 2003. Molecular pathology of osteoarthritis in young individuals.

**Hedden DM:** Canadian Spine Society Annual Meeting, Sun Peaks, BC, March 2004. Patient Characteristics Associated with Surgeons' Ratings of Physical Deformity in Adolescent Idiopathic Scoliosis.

**Hedden DM:** St. Justine Paediatric Orthopaedic Review Course, Montreal, Quebec, March 2004. 1). Spondylolysis/Spondylolisthesis: When is Surgery Necessary? 2). Ethics & Paediatrics.

**Hedden DM:** Edmonton Orthopaedic Research Visiting Surgeon / Alberta Heritage Foundation for Medical Research, Edmonton, Alberta, November 2003. 1). Update on the Management of Paediatric Spine Trauma. 2). Management of Congenital Scoliosis.

**Howard A:** CBC Newsworld, Toronto, ON, April 2004. Africa's Traffic Terror.

**Howard A:** The Ottawa Citizen, Ottawa, ON, September 2003. Child safety in the real world.

**Howard A:** Toronto Police Service, Ministry of Transportation of Ontario, CityTV, CTV, Global, Ming Pao Newspaper, Toronto, ON, September 2003. Fall 2003 Seat Belt Campaign: Booster Seats.

**Howard A:** Bottom Line Personnel, Boulder, CO, November 2003. Major SUV danger for kids.

**Howard A:** Bethune Round Table 2004, Toronto, ON, May 2004. Making the Obvious Statistically Significant.

**Howard A:** CityTV, CBC, CFTO, Toronto, May 2004. SafeKids Week: Booster Seats Use.

**Salter RB:** University of Saskatchewan, Saskatchewan, Alberta, October 2003. Injuries involving the epiphyseal plate.

**Salter RB:** University of Montreal St. Justine Annual Orthopaedic Review Course, Montreal, March 2004. Legg perthes (basic research) and legg perthes' disease (clinical applications) Guest Faculty.

**U.G. Narayanan:** American Academy of Cerebral Palsy and Developmental Medicine, Montreal, Quebec, November 2003. Gait Analysis: Point Counterpoint Debate.

**U.G. Narayanan:** Canadian Orthopaedic Association, Winnipeg, Manitoba, October 2003. Workshop on flexible intramedullary nailing in children's fractures.

**Wedge JH:** Third Symposium on Joint Preserving and Minimally Invasive Surgery of the Hip, Montreal, Quebec, June 2004. The Toronto perspective of pelvic osteotomies.

**Wright JG:** American Academy of Orthopaedic Surgeons, Washington, DC, November 2003. 1). Overview of Clinical Trials. Orthopaedic clinical trials: Design, implementation and regulation issues #3637. 2). Variation in unmet needs: female vs male.

## **RESEARCH AND INVESTIGATIONS**

*Senior Investigator's Name Appears in Italics*

An evaluation of the benefits of physical activity on bone mineral density and prevention of fractures in children with spina bifida. *Johnson P, Craven C, Wright JG* (Consultants: Ross M, Parker K): *Bloorview Children's Hospital Foundation* (\$180,584 2003 - 2005).

Auto21. *Howard AW and 185 other investigators: Networks of Centres of Excellence* (\$23,000,000 2001 - 2005).

Beta-catenin in aggressive fibromatosis: Molecular pathology and implications for therapy. *Alman BA: NCIC* (\$460,000 2001 - 2004).

- Child Pedestrian Injuries in Kampala, Uganda: Data Sources and Determinants. *Andrew Howard, Ronald Lett, Andrew Willan, Colin Macarthur, Olive Kobusingye, Eva Magambo, Massey Beveridge: Canadian Institutes of Health Research (\$77,700 2004 - 2005).*
- Continuous passive motion - an anti-inflammatory signal in an adjuvant-induced model of arthritis. *Agarwal S, Salter RB, Alman B: National Institutes of Health (NIH) (\$654,000 2001 - 2004).*
- Crash Protection for Children: Simulation of Real World Crashes. *Howard AW: Ford Motor Company (\$170,000 2003 - 2006).*
- Determinants of arthritis disability and joint replacement surgery. *Hawker GA, Wright JG, Coyte PC, Badley EM, Williams JI, Glazier RH, Harvey BJ: MRC (\$394,330 1999 - 2004).*
- 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 2003 - 2004).*
- Development and validation of a pediatric comorbidity index using administrative data. *Tai D, Wright JG, Dick P, To T: Institute of Medical Science; Continuing Fellowship Award (\$5,000 2003).*
- 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: Restracom; The Hospital for Sick Children (\$14,000 2003 - 2005).*
- Development and Validation of Spasticity Measurement System. *Unni Narayanan, Darcy Fehlings, Alan Morris, Stephen Naumann, Darcy Fehlings: Bloorview MacMillan Children's Foundation (\$39,551 2003 - 2004).*
- 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. *Unni G. Narayanan, Darcy Fehlings, Bloorview MacMillan Children's Centre: Hospital for Sick Children, Research Institute Scientist Track Investigator Start Up (\$55,000 2003 - 2004).*
- Fellowship Award. *Dianne Groll, James G. Wright (supervisor): MRC (\$33,000 1999 - 2004).*
- Fractures in children with spina bifida: Prevention and improved treatment. *Johnson P, Ross M, Biggar D, Wright JG: Bloorview Children's Hospital Foundation (\$180,584 2003 - 2005).*
- From Knowledge Generation to Knowledge Translation: A Systems Approach to Reducing the Burden of Injury in Canada. *Raina R, MacArthur C, Philippa, Holowaty h, Howard AW, Morrongiello B, Shannon H, et al: CIHR (\$750,000 2003 - 2007).*
- Interdisciplinary Health Research Team in Musculoskeletal Neoplasia : Please note this grant is divided into 4 programs and Dr. Alman is the Primary Investigator of 1 of these 4 programs, entitled; Developmental Pathways in Musculoskeletal Neoplasia. *Bell RS, Alman BA, Andrulis I, Bramwell V, Davis A, Greenberg M, Hill R, Kandel R, Malkin D, Masri B, O'Sullivan B, Turcotte R, and Wunder J: Canadian Institutes of Health Research (CIHR) (\$5,995,000 2001 - 2006).*
- 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. *Wright JG, Coyte PC, Glazier RH, Hawker GA, Kreder HJ, Mahomed NN: Canadian Institute for Health Research (\$100,000 2004).*
- Molecular mechanism of dupuytren's contracture. *Gan B, Alman BA, Howard J: CIHR (\$376,000 2003 - 2006).*
- Molecular mechanisms in wound healing. *Alman, BA: Canadian Institute of Health Research (\$299,340 2002 - 2005).*
- Molecular Pathology of Cartilage Neoplasia. *Wunder JS, Alman BA: Candian Institute for Health Research ( CIHR) (\$560,000 2003 - 2008).*
- Molecular pathology of cartilage neoplasia : the role of parathyroid hormone related protein and indian hedgehog. *Alman BA and Wunder JS: CIHR (\$318,000 2000 - 2003).*
- 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. *Boutis K, Babyn P, Narayanan UG, Alman BA: Physicians' Services Incorporated Foundation (\$150,500 2003 - 2005).*
- Randomized controlled trial of casting versus ankle brace in children with low-risk ankle fractures. *Kathy Boutis, Kathy Boutis, Suzanne Schuh, Unni G. Narayanan, Andrew Willan, Benjamin Alman, Paul Babyn: Physicians Services Incorporated Foundation (\$155,000 2003 - 2005).*
- Samuel Lunenfeld Summer Student Program. *Smith T, Wright JG: The Hospital for Sick Children (\$2,000 2003).*
- Surgical and non-surgical treatment of scoliosis in spina bifida. *Roposch A, Wright JG: Research Training Competition, Research Institute, The Hospital for Sick Children (\$35,000 2003 - 2004).*
- The chondrogenic potential for free skeletal muscle and grafts in the healing of major full thickness defects of articular cartilage under the stimulus of continuous passive motion: an experimental investigation in the rabbit. *Salter RB, Alman B: Hospital for Sick Children Fund & Josie Walther Research Fund of the Hospital for Sick Children (\$115,000 2001 - 2004).*



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. *Salter R, Alman B: Josie Waltham Research Fund* (\$30,000 2002 - 2004).

The role of scoliosis surgery in children with spina bifida. *Roposch A, Wright JG: Trainee's Start-up Fund, The Hospital for Sick Children* (\$2,000 2004 - 2005).

What is the health and quality of life for graduates from children's rehabilitation centre? *Young N, Boydell K, Fehlings D, Law M, McCormick A, Mukherjee S, Rumney P, Steele C, Wedge J, Williams J: Canadian Institutes of Health Research and Bloorview Children's Hospital Foundation* (\$400,000 2003 - 2006).

## HONOURS RECEIVED

**Hedden DM:** Community Health Research Visiting Lecturer Grant from Alberta Heritage Foundation for Medical Research, November 2003.

**Hedden DM:** Marc A. Asher Scientific Poster Award for outstanding poster at 2004 Paediatric Orthopaedic Society of North America Annual Meeting, May 2004.

**Howard A:** 2004 Distinguished Achievement Award for Outstanding Scientific Poster: Concerns, Desires and Expectations of Surgery for Adolescent Idiopathic Scoliosis: A Comparison of Patients, Parents, and Surgeons' Perspectives (Pediatric Orthopaedic Society of North America, Annual Meeting), April 2004.

**Howard A:** 2004 Pediatric Orthopaedic Society of North America Travelling Fellowship--Trauma Research (South America), October 2003.

**Howard A:** Best E-poster: Does Removal of and Subsequent Replacement of Hazardous Play Equipment Make Schoolyards Safer? (Pediatric Orthopaedic Society of North America, Annual Meeting), April 2004.

**Salter RB:** A 1995 inductee of the Canadian Medical Hall of Fame, after completing two terms as a member of the Board of Directors, he was honored by being elected an honorary Director in perpetuity, June 2004.

**Narayanan UG:** 2003-2004 Award for Teaching Excellence for the Paediatric Resident Lecture Series, Department of Paediatrics, University of Toronto, June 2004.

**Narayanan UG:** Marc Asher Award, Pediatric Orthopaedic Society of North America Annual Meeting, 2004 Best Scientific Poster Award : Concerns, Desires & Expectations of Surgery for Adolescent Idiopathic Scoliosis: A Comparison of Patients', Parents' and Surgeons' Perspectives., May 2004.

**Narayanan UG:** Pediatric Orthopaedic Society of North America Research Grant award: Caregiver Priorities and Child Health Index of Life with Disabilities (CPCHILD): Validation of a new disease specific measure of health related quality of life in children with severe cerebral palsy., May 2004.

**Wedge JH:** Physician of the year Operation Herbie for 2003, June 2004.

**Wedge JH:** The Whittaker Memorial Cerebral Palsy Award, October 2003.

## **DIVISION OF PLASTIC SURGERY**

**Dr. H.M. Clarke - Professor**

**Dr. D.M. Fisher – Assistant Professor**

**Dr. C.R. Forrest - Associate Professor (Division Head)**

**Dr. J.H. Phillips - Assistant Professor**

**Dr. W.K. Lindsay - Professor**

**Dr. C.Y. Pang - Professor**

**Dr. R.M. Zuker - Professor**

## **PUBLICATIONS**

**Addison PD, Neligan PC, Ashrafpour H, Khan A, Zhong A, Moses M, Forrest CR, Pang CY:** Noninvasive remote ischemic preconditioning for global protection of skeletal muscle against infarction. *American Journal Physiology (Heart Circulatory Physiology)*: October 2003: 285(4): pp H1435-1443.

**Ashrafpour H, Huang N, Neligan PC, Forrest CR, Addison PD, Moses MA, Levine RH, Pang CY:** Vasodilator effect and mechanism of action of vascular endothelial growth factor in skin vasculature. *American Journal Physiology (Heart Circulatory Physiology)*: March 2004: 286(3): pp H946-954.

**Farkas LG, Eiben OG, Sivkov S, Tompson B, Katic MJ, Forrest CR:** Anthropometric measurements of the facial framework in adulthood: Age-related changes in eight age categories in 600 healthy white North American of European ancestry from 16 to 90 years of age. *Journal of Craniofacial Surgery*: March 2004: 15 (2): pp 288 - 298.

**Jethwa A, Schenker R:** Plastic surgery. In: *The HSC Handbook of Pediatrics*, 10th edition (Cheng A, Williams BA, Sivarajan VB, eds). Elsevier Canada.; 2003: pp 720-727.

**Kao JTS, Sharma S, Curtis CG, Clarke HM:** The role of the brachioradialis H reflex in the management and prognosis of obstetrical brachial plexus palsy. *Handchirurgie, Mikrochirurgie, Plastische Chirurgie*: September 2003: 35(2): pp 106-111.

**Lindzon G, Zuker RM:** Congenital melanocytic nevi. *Journal of Craniofacial Surgery*: November 2003: 14 (6): pp 876-879.

**Sigler MO, Stein J, Zuker RM:** A rare craniofacial cleft: Numbers 7, 2, and 3 clefts accompanied by a single median lip pit. *Cleft Palate-Craniofacial Journal*: May 2004: 41(3): pp 327-331.

**Westin ML, Zuker RM:** A new classification system for facial paralysis in the clinical setting. *Journal of Craniofacial Surgery*: September 2003: 14 (5): pp 672-679.

## **INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

**Clarke HM:** 13th International Congress of the International Confederation for Plastic, Reconstructive and Aesthetic Surgery, Sydney, Australia, August 2003. Management of obstetrical brachial plexus palsy.

**Clarke HM:** Princess Margaret Hospital for Children, Perth, Australia, August 2003. Management of obstetrical brachial plexus palsy.

**Clarke HM:** American Society for Peripheral Nerve, Palm Springs, California, January 2004. Obstetrical brachial plexus palsy (with Dr. Peter Waters).

**Clarke HM:** Leonardo Martinez Hospital, San Pedro Sula, Honduras, February 2004. Paediatric hand surgery.

**Clarke HM:** 9th Congress of the International Federation of Societies for Surgery of the Hand, Budapest, Hungary, June 2004. Repair of the obstetrical plexus: Is neurolysis an option?

**Fisher DM:** The 18th Annual Virgin Islands Workshop in Plastic Surgery, St. John, U.S. Virgin Islands, February 2004. Invited Guest - (1) Unilateral cleft lip repair, (2) A computer generated model of the cleft lip nasal deformity.

**Fisher DM:** Operation Smile, Belo Horizonte, Brazil, August 2003. Member of a team of volunteer plastic surgeons.

**Fisher DM:** Operation Smile, Laayoune, Morocco, April 2004. Member of a team of volunteer plastic surgeons.

**Fisher DM:** The University of Alberta Hospital, Edmonton, Alberta, November 2003. Visiting Professor: Cleft lip rhinoplasty.

**Forrest CR:** American Society of Plastic Surgeons Annual Meeting, San Diego, California, October 2003. Cleft nasal deformity.

**Forrest CR:** AMP CER Congresso Nacional: La Creatividad del Cirujano Plastico, Monterrey, Mexico, February 2004. 1). Complication of Surgical Management of Craniosynostosis in Infants. 2). Cranioplasty in children: Outcomes and complications. 3). Facial fractures in children.

**Forrest CR:** The Hospital For Sick Children, Toronto, Ontario, September 2003. Craniofacial Reconstruction.

**Forrest CR:** American College of Surgeons Annual Clinical Congress - The College's International Travellers 2003 - International Perspectives on Surgery, Chicago, Illinois, October 2003. Encounters in the land down-under with echidnas, black tiger snakes and koalas: Report of the 2003 ACS-ANZ Travelling Fellow.

**Forrest CR:** Canadian Society of Plastic Surgeons 58<sup>th</sup> Annual Meeting, Hamilton, Ontario, June 2004. Paediatric Facial Fracture.

**Lindsay WK:** Toronto, Ontario, November 2003. Lindsay-Thomson Paediatric Plastic Surgery Symposium.

**Zuker:** President's Panel: 20th Anniversary of the American Society for Reconstructive Microsurgery, Palm Springs, California, January 2004. "As we were then and where we are now".

**Zuker:** Visiting Professor: Università Degli Studi di Parma, Facoltà di Medicina e Chirurgia, Dipartimento di Scienze Otorino-Odonto-Oftalmologiche e Cervicofacciali, Parma, Italy, February 2004. "Stato dell'arte nella chirurgia del sorriso nei pazienti affetti da sindrome di Moebius".

**Zuker:** Invited Lecturer: University of Southern California, Los Angeles, California, October 2003. (1) Conjoined twins, (2) Hind quarter composite tissue allotransplantation.

**Zuker:** Invited Lecturer: The Cleveland Clinic, Third Biannual Symposium - New Horizons in Pediatric and Adolescent Plastic Surgery, Cleveland, Ohio, September 2003. (1) Controversies in pediatric giant congenital nevus management, (2) Congenital facial paralysis and facial reanimation.

**Zuker:** Invited Lecturer: Diana, Princess of Wales Children's Hospital, Birmingham, England, April 2004. (1) Facial paralysis reconstruction in children, (2) Conjoined twins.

**Zuker:** Invited Speaker: 55th Scientific Meeting of The Korean Society of Plastic and Reconstructive Surgeons, Seoul, Korea, November 2003. (1) Facial paralysis reconstruction in children, (2) Conjoined twins, (3) Composite tissue allotransplantation.

**Zuker:** Guest Lecturer: Korean University, Department of Plastic & Reconstructive Microsurgery, Seoul, Korea, November 2003. (1) Microsurgery in children, (2) Conjoined twins.

**Zuker:** Guest Lecturer: Hanyang University, Department of Plastic and Reconstructive Surgery, Seoul, Korea, November 2003. (1) Pediatric microsurgery, (2) Conjoined twins.

**Zuker:** Visiting Professor: Pusan National University Hospital, Department of Plastic and Reconstructive Surgery, Pusan, Korea, November 2003. (1) Pediatric microsurgery, (2) Conjoined twins, (3) A potpourri of pediatric plastic surgery.

**Zuker:** Honoured Guest Lecturer: Facial Paralysis Symposium, Tel-Aviv Sourasky Medical Center, Tel-Aviv, Israel, April 2004. (1) What makes a smile, (2) Unilateral facial paralysis in children, (3) Bilateral facial paralysis - The Toronto experience (4) Challenges in facial paralysis reconstruction - Those met and those unmet.

**Zuker:** Invited Speaker: International Confederation of Plastic, Reconstructive and Aesthetic Surgery, Sydney, Australia, July 2003. Approach to facial paralysis.

**Zuker:** Invited Lecturer: Plastic Surgery Educational Foundation, Perioral Plastic Surgery Symposium, San Diego, California, October 2003. Congenital lip problems - Facial paralysis.

**Zuker:** Invited Lecturer: Residents and Fellows Symposium - 20th Year Anniversary of American Society for Reconstructive Microsurgery, Palm Springs, California, January 2004. Facial reanimation.

**Zuker:** Invited Speaker: Association of Plastic Surgery Assistants, San Diego, California, October 2003. Muscle transplantation in Mobius syndrome.

**Zuker:** Invited Speaker: Associazione Italiana Sindrome De Moebius, Rome, Italy, July 2003. Smile surgery.

**Zuker:** Instructor: American Society of Plastic Surgeons, 72nd Annual Scientific Meeting, San Diego, California, October 2003. The complete head and neck micro course.

## RESEARCH AND INVESTIGATIONS

### *Senior Investigator's Name Appears in Italics*

Genotype and Phenotype of Brainstem Injury in Autism. *Rodier PM, Bryson SE, Figlewicz DA, Gudas LJ, Hyman SL, Stanton ME, Zuker RM: NIH-NICDH (\$4,219,189 1999 - 2003).*

Global protection of skeletal muscle against ischemic necrosis and vascular dysfunction by non-invasive remote ischemic preconditioning: efficacy and mechanism. *Pang, CY, Forrest CR, Neligan PC: CIHR (\$222,000 2003 - 2006).*

Prevention of Positional Plagiocephaly. *Forrest CR, Damignani R, Klar K: The Hospital For Sick Children Foundation (\$20,000 2002 - 2003).*

Radiation induced craniofacial bone growth inhibition: In vitro investigation of the molecular mechanisms and cytoprotection. *Gevorgyan A, Forrest CR: American Society of Maxillofacial Surgeons (\$11,000 2004 - 2005).*

Reconstitution of CF sweat glands with a novel vector. *Hu J, Pang CY: Foundation Seed Grant (\$50,000 2003 - 2005).*

Skin flap ischemia: pathophysiology and pharmacologic intervention. *Pang CY, Neligan PC: Canadian Institutes of Health Research (\$80,000 2001 - 2006).*

## HONOURS RECEIVED

**Forrest CR:** Supervisor: Dr. Artur Gevorgyan, IMS Continuing Fellowship Award 2003 - 2004 (\$4,100), February 2004.

**Forrest CR:** Supervisor: Research Fellow: Dr. Artur Gevorgyan: Restracom Research Fellowship 2004, January 2004.

**Lindsay WK:** Lifetime Achievement Award of the Canadian Society of Plastic Surgeons, June 2004.

## DIVISION OF UROLOGY

**Dr. D.J. Bagli - Assistant Professor**

**Dr. L.L. Burrows - Associate Professor**

**Dr. W. Farhat - Assistant Professor**

**Dr. J.L. Pippi-Salle - Assistant Professor**

**Dr. A.E. Khoury – Professor (Division Head)**

## PUBLICATIONS

**Aboutaleb H, Bolduc S, Bagli DJ, Khoury AE:** Correlation of vesicoureteral reflux with degree of hydronephrosis and the impact of antireflux surgery. *American Journal of Urology*: October 2003: 170:1560-1562.

**Aboutaleb H, Bolduc S, Upadhyay J, Bagli DJ, Khoury AE, Farhat W:** Polydimethylsiloxane injection versus open surgery for the treatment of vesicoureteral reflux in complete duplex systems. *The Journal of Urology*: October 2003: 170: pp 1563-1565.

**Afshar K, Khoury AE:** Bacterial infections of the urinary tract in girls. In: *Conn's Current Therapy* (Rakel R, Bope E, eds). Saunders-ISBN #0-7216-0401-3, Philadelphia, PA714-7180: 2003: pp 714-718.

**Chin-Peuckert L, Komlos M, Rennick E, Jednak R, Capolicchio JP, Pippi Salle JL:** What is the variability between 2 consecutive cystometries in the same child? *Journal of Urology*: October 2003: 170: pp 1614-1617.

**Chin-Peuckert L, Komlos M, Rennick J, Jednak R, Capolicchio JP and Pippi Salle JL:** What is the Variability between 2 Consecutive cystometries in the Same Child? *J of U/This Month in Pediatric Urology Section on Urology, American Academy of Pediatrics Supplement*: October 2003: 170: pp 1067-1069.

**El-Ghoneimi A, Farhat W, Bolduc S, Bagli D, McLorie G, Algrain Y, Khoury AE:** Laparoscopic dismembered pyeloplasty by a retroperitoneal approach in children. *British Journal of Urology*: July 2003: 92(1): pp 104-108.

**Farhat W, Erdeljan, Shemtov O, Chen J, Khoury AE, Yeger H:** Porosity of Porcine Bladder Acellular Matrix: Impact of ACM thickness. *Journal of Biomedical Materials Research*: December 2003: 67A(3): pp 970-974.

**Farhat W, Khoury AE, Bagli D, McLorie G, EL-Ghoneimi A:** Mentored retroperitoneal laparoscopic renal surgery in children: a safe approach to learning. *British Journal of Urology*: October 2003: 92(6): pp 617-620.

**Fung L, Mittelman M, Thorner P, Khoury AE:** A novel rabbit model for the evaluation of biomaterial associated urinary tract infection. *Canadian Journal of Urology*: October 2003: 10(5): pp 2007-2012.

**Hafez AT, McLorie GA, Gilday D, Laudenberg J, Upadhyay J, Bagli D, Khoury AE:** Long-Term evaluation of metabolic profile and bone mineral density after ileocystoplasty in children. *Journal of Urology*: October 2003: 170: pp 1639-1642.

**Halachmi S, El Ghoneimi A, Bissonnette B, Zaarour C, Bagli DJ, McLorie GA, Khoury AE, Farhat W:** Hemodynamic and Respiratory Effect of Pediatric urologic Laparoscopic Surgery: A Retrospective Study. *Journal of Urology*: October 2003: 170: pp 1651-1654.

**Halachmi S, Farhat W, Bagli DJ, McLorie GA, Khoury AE:** Efficacy of macroplastique injection to the bladder neck and to a leaking diverting stoma for urinary continence. *Journal of Urology*: April 2004: 171: pp 1287-1290.

**Halachmi S, Farhat W, Konen O, Khan A, Hodapp J, Bagli DJ, McLorie GA, Khoury AE:** Pelvic floor magnetic resonance imaging after neonatal single stage reconstruction in male patients with classic bladder exstrophy. *Journal of Urology*: October 2003: 170: pp 1505-1509.

**Halachmi S, Farhat W, Metcalfe P, Bagli DJ, McLorie GA, Khoury AE:** Efficacy of macroplastique injection to the bladder neck and to leaking diverting stoma for urinary continence. *American Journal of Urology*: March 2004: 171: pp 1287-1290.

**Heckman GA, Morris A, Burrows LL, Bergeron C:** Rapidly progressive dementia due to mycobacterium neoaurum meningoencephalitis. *Emerging Infectious Diseases*: April 2004: 10(5): pp 924-927.

**Herz D, Aitken K, Bagli DJ:** Collagen directly stimulates bladder smooth muscle cell growth in vitro: regulation by extracellular regulated mitogen activated protein kinase. *Journal of Urology*: November 2003: 170(5): pp 2072-2076.

**Kus JV, Tullis E, Cvitkovitch D, Burrows LL:** Significant differences in type IV pilin allele distribution among *Pseudomonas aeruginosa* isolates from cystic fibrosis (CF) versus non-CF patients. *Microbiology*: April 2004: 150: pp 1315-1326.

**McLorie GA, Pugach J, Pode D, Denstedt J, Bagli DJ, Meretyk S, Honey J, Merguerian P, Shapiro A, Khoury AE, Landau E:** Safety and efficacy of extracorporeal shock wave lithotripsy in infants. *Canadian Journal of Urology*: December 2003: 10(6): pp 2051-2055.

**Metalfe PD, Farivar-Mohsent H, Farhat W, McLorie G, Khoury AE, Bagli DJ:** Pediatric Testicular tumors: Contemporary Incidence And Efficacy of Testicular Preserving Surgery. *Journal of Urology*: December 2003: 170 (6): pp 2412-2416.

**Rosito NC, Koff WJ, Da Silva Oliveira TL, Tadeu Cerski C, Pippi Salle JL:** Volumetric and histological findings in intra-abdominal testes before and after division of spermatic vessels. *Journal of Urology*: June 2004: 171: pp 2430-2433.

**Teebi A, Dupuis L, Wherrett D, Khoury AE, Zuker KJ:** Alopecia, Microcephaly, Laryngomalacia, Cutis Marmorata, Short Stature, and XY Gonadal Dysgenesis: A new Autosomal Recessive Syndrome. *European Journal of Pediatrics*: December 2003:

#### INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Burrows LL:** Advanced Foods and Materials Network Bacterial Biofilms Working Group Meeting, Guelph, Ontario, January 2004. Biofilms from DNA to dialysis.

**Burrows LL:** American Society for Microbiology's Biofilms Meeting, Victoria, British Columbia, November 2003. Penicillin-binding and penicillin-breaking proteins: their role in *Escherichia coli* biofilm formation.

**Burrows LL:** Department of Microbiology and Immunology, Queens University, London, Ontario, March 2004. *Pseudomonas* goes fishing: Studies of type IV pili.

**Burrows LL:** Department of Biological Sciences, University of Southern California, LA, California, April 2004. *Pseudomonas* goes fishing: Studies of type IV pili.

**Farhat W:** American University of Beirut, Beirut, Lebanon, July 2003. 1). Current Approaches to Bladder Substitution. 2). Operating Room. 3). Uro-Radiology. 4). Voiding Dysfunction in Children.

**Farhat W:** Northwestern University Hospital, Department of Urology, Chicago, Illinois, February 2004. Urinary Bladder Tissue Engineering Link to Biomaterials Science.

**Farhat W:** The 6th Great Lakes Urology Seminar, Detroit, Michigan, March 2004. Urinary Bladder Tissue Engineering Link to Biomaterials Science.

**Joao L. Pippi Salle:** Cook Scientific Meeting, Montreal, Quebec, January 2004. Correction of UPJ Obstruction. Surgical Management of Severe Hypospadias.

**Joao L. Pippi Salle:** 50th Course of the Foundation of Urology Puigvert, Barcelona, Spain, October 2003. Live Surgery: (640 Attendees) Performed a repair of perineal hypospadias with severe chordee. Management of Proximal Hypospadias. Panelist: Vesicoureteral Reflux in infants.

**Joao L. Pippi Salle:** Hypospadias & Epispadias Association, Toronto, Ontario, April 2004. Management of Epispadias. Panel member-Strategies for Planning Hypospadias Surgery.

**Joao L. Pippi Salle:** Russian Academy of Medical Sciences, Moscow, Russia, April 2004. Panel Discussions on Megaureter & Antenatal Hydronephrosis (Visiting Professor). Participated in Live Surgery repairing a Hypospadias.

**Joao L. Pippi Salle:** Pediatric Rendez-Vous 2004, Ottawa, Ontario, June 2004. Sex reassignment in males with cloacal exstrophy.

**Khoury AE:** 21st World Congress on Endourology, Montreal, PQ, September 2003. Co-Moderator for a Video Session.

**Khoury AE:** Arkansas Urologic Society 2003 Fall Meeting, Hot Springs, Arkansas, October 2003. Current principles of bladder reconstruction, a look into the future.

**Khoury AE:** Hypospadias & Epispadias Association (HEA), Toronto, Ontario, April 2004. Management of Hypospadias. Panel member- Strategies for Planning Hypospadias Surgery.

**Khoury AE:** University of Arkansas for Medical Sciences Department of Urology, Little Rock, Arkansas, October 2003. Penile reconstruction in hypospadias and epispadias. Posterior urethral valves and hydronephrosis.

**Khoury AE:** Society Of Urologic Surgeons of Ontario (SUSO), Niagara Falls, ON, June 2004. Prenatal Hydronephrosis: Insights into Outcomes. Reflux: a Shifting Paradigm.

**Khoury AE:** Societe Internationale d'Urologie Uro-Oncology Congress, Sharm El-Sheikh, Egypt, October 2003. Principles of managing Urologic Wilm's Tumours in Children.

**Khoury AE:** Department of Pediatric Urology, Krankenhaus der Barmherzige Schwestern, Linz, Austria, March 2004. Recent advances in Bladder Reconstruction.

**Khoury AE:** American Academy of Pediatrics, New Orleans, Louisiana, November 2003. Section on Urology-Video Forum Review Panelist (Mitrofanoff Techniques). Session 11: Exstrophy/Epispadias-Moderator.

**Khoury AE:** 16th Saudi Urological Annual Meeting, Riyadh, Saudi Arabia, March 2004. State-of the Art Lecture- Is Renal Injury Preventable in the Myelodysplasia Patient? State-of the Art Lecture- Perinatal Hydronephrosis: Lessons Learned. State-of-the Art Lecture - Dysfunctional Voiding in Children: An Objective Analysis of an Old Problem.

**Khoury AE:** Arkansas Urologic Society 2003 Fall Meeting, Hot Springs, Arkansas, October 2003. Update on managing urinary tract infections in children.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

“Proteins involved in type IV pilus biogenesis in *Pseudomonas aeruginosa*”. *Howell, L, Burrows LL: PENCE (Canadian Protein Engineering Network of Centres of Excellence (\$40,000 2003 - 2004).*

Acellular Matrix Scaffolds with Bioactive Peptides for Bladder Augmentation. *Kim Woodhouse, D. Bagli, M. Ringutte: CIHR (\$87,000 2003 - 2005).*

Antimicrobial activity of novel membrane-active peptides and synergy with conventional antibiotics. *Burrows LL, Deber CM: Canadian Infectious Diseases Society (CIDS/Janssen-Ortho Antimicrobial Resistance Research Grant) (\$45,000 2002 - 2003).*

Clinical Trial of Multiinstitutional use of Ciprofloxacin study in Children with complicated urinary tract infections. *Pippi Salle JL, Goodyer P, Jednak R, Girardin C, Capolicchio JP: Bayer Inc. (\$40,000 2001 - 2003).*

Defeating the bacterial “force-field”. *Howell L, Deber C, Burrows LL: PENCE ( Protein Engineering Network of Centres of Excellence (\$33,000 2004 - 2005).*

Development of antimicrobial coatings for peritoneal catheters suitable for simultaneous exchange. *Antoine Khoury, Burrows LL, DiCosmo F: The Kidney Foundation of Canada (\$96,088 2002 - 2004).*

Development of antimicrobial coatings for peritoneal catheters suitable for simultaneous exchange. *Burrows LL: Kidney Foundation of Canada Biomedical Research Grant (\$96,088 2002 - 2004).*

Development of Biologically Responsive Drug Polymers. *Santerre P, Ho Jeannette, Khoury AE: NSERC (\$90,000 2003 - 2004).*

Feasibility Of Contrast-Enhanced Sonography to Detect Pyelonephritis In a Pig Model. *Gordon McLorie, Walid Farhat: Hospital For Sick Children Research Institute- Seed Grant (\$30,000 2002 - 2004).*

Feasibility of contrast-enhanced sonography to detect pyelonephritis in a pig model. *McLorie G, Farhat W: Research Institute- Seed Grant (\$15,000 2002 - 2004).*

In Vivo Co-Culture of Bladder Urothelial and Smooth Muscle Cells Onto Demucosalized Colonic Segments for Bladder Augmentation. *Khoury Ae, Bahoric A, Smith C: The Hospital for Sick Children- Research Institute (\$12,124 2003).*

Influence of cell surface mutations on *Pseudomonas aeruginosa* biofilm formation. *Lori L. Burrows: Canadian Institutes of Health Research (\$247,696 2001 - 2004).*

Interactive multi-media CD-Rom for teaching operative pediatric urology. *Pippi Salle JL, Khoury AE,: University of Toronto Information Technology Courseware Development Fund Competition (\$16,795 2004 - 2005).*

Investigations of bacterial biofilm formation and development of anti-biofilm strategies. *Burrows LL: Government of Ontario Premier's Research Excellence Award (\$150,000 2003 - 2008).*

Novel antimicrobial theramers. *Burrows LL: Rimon therapeutics Inc. (sponsored research agreement) (\$3,000 2003 - 2004).*

Peptidoglycan synthesis and bacterial biofilm formation. *Burrows LL: CIHR (Institute of Infection and Immunity) (\$71,800 2004 - 2005).*

Porcine Partial Bladder Substitution Using Autologous Cell Seeded and Fibrin Glue Bladder Acellular Matrix Construct. *Farhat, W: Canadian Urological Association Scharlarship Foundation (\$40,000 2003 - 2004).*

*Pseudomonas aeruginosa* biofilm gene expression. *Lori L. Burrows: Natural Sciences and Engineering Research Council of Canada (\$35,000 2001 - 2004).*

Targeted Small Molecular Therapeutics for Cystic Fibrosis. *Bear C, Burrows LL, Deber CM, Durie P, Lingwood C, Rotin D, Yeger H: Canadian Cystic Fibrosis Foundation (BREATHE Program) (\$1,440,000 2004 - 2007).*

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).*

The Search for an Optimal Bladder Substitute. *Walid Farhat, Yeger H, Courtman D, Derwin K, Cheng M: The Hospital for Sick Children Foundation and the Institute of Human Development, child and Your Health - CIHR (\$130,000 2004 - 2006).*

Type IV pilus biogenesis in *Pseudomonas aeruginosa*. Howell PL, Burrows LL: *PENCE (Protein Engineering Centre of Excellence), New Ideas Program* (\$40,000 2003 - 2004).

Use of tolterodine in treatment of neuropathic overactive bladders in children. Khoury AE, Farhat W: *Pharmacia-Upjohn Canada* (\$63,700 2000 - 2003).

## **HONOURS RECEIVED**

**Bagli, DJ:** Service Award- Society for Basic Urologic Research received at the Spring 2004 annual meeting in recognition of your tremendous efforts, valuable service and insight in structuring and expanding the SBUR website and maintaining its function at a professional level., May 2004.

**Burrows LL:** CIHR New Investigator Salary Award in the September 2003 competition. (\$250,000 over 5yrs. July 2004-June 2009), April 2004.

**Farhat W:** The Hospital for Sick Children Humanitarian Nomination, March 2004.

**Joao L. Pippi Salle:** Best Clinical Paper “Effect of infused fluid temperature during urodynamic studies in children”, presented at the annual American Academy of Pediatrics in New Orleans, LA, November 2003.

**Khoury AE:** 1st prize for best basic science paper at the 2004 Robson Research Day for paper entitled “Compsite colonic-urothelial flap for bladder augmentation using cell spray technique” (Dr. Kouros Afshar presented), April 2004.

**Khoury AE:** Robson Research Day Basic Science Award: 1st prize Kouros Afshar for “Composit Colonic-Urothelial Flap for Bladder Augmentation using Cell Spray Technique” (Dr. Antoine Khoury-supervisor), April 2004.



# MOUNT SINAI HOSPITAL

*Dr. Zane Cohen  
Surgeon-in-Chief & Langer Chair*

## *Heads of Divisions*

Dr. R.S. McLeod - General Surgery

Dr. A.E. Gross - Orthopaedic Surgery

Dr. K. Jarvi - Urology

**T**he 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, Orthopaedics 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 Edinburgh 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 Arthroplasty 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.M. Easson - Lecturer**

**Dr. S. Gallinger - Professor**

**Dr. M.R. Goldberg - Associate Professor**

**Dr. R. Gryfe - Assistant Professor**

**Dr. I.H. Koven - Associate Professor**

**Dr. H.M. MacRae - Associate Professor**

**Dr. J.A. McCart - Assistant Professor**

**Dr. R.S. McLeod – Professor (Division Head)**

**Dr. I.B. Rosen - Professor**

**Dr. S. Sidlofsky - Assistant Professor**

**Dr. C.J. Swallow - Associate Professor**

## PUBLICATIONS

**Al-Omran M, Mamdani M, McLeod RS:** The epidemiology of acute appendicitis in Ontario, Canada. *Canadian Journal of Surgery*: August 2003; 46: pp 263-8.

**Asano T, Tomas D, Stern H, McLeod RS:** Lack of awareness of publication of colorectal cancer screening clinical practice guidelines in Canada: April 2004:

**Asano TK, McLeod RS:** Non-steroidal anti-inflammatory drugs (NSAID) and Aspirin for preventing colorectal adenomas and carcinomas. *Cochrane Database Syst Rev*: January 2004; 2: pp 4079.

**Asano TK, McLeod RS:** Nonsteroidal anti-inflammatory drugs and aspirin for the prevention of colorectal adenomas and cancer - a systematic review. *Diseases of the Colon and Rectum*: May 2004; 47: pp 665-73.

**Bartlett DL, McCart JA:** Vaccinia Viral Vectors. In: *Cell and Gene Therapy* (Templeton NS, ed). Marcel Dekker Inc., New York: 2003: pp 165-180.

**Beck D, Cohen Z, Fleshman J, Kaufman H.S, Van Goor H, Wolff B:** A Prospective Randomized Multicenter Controlled Study of the Safety of Seprafilm Adhesion Barrier in Abdominopelvic Surgery of the Intestine. *Diseases of the Colon and Rectum*: October 2003; 46 (10): pp 1310-1319.

**Brezden-Masley C, Aronson MD, Bapat B, Pollett A, Gryfe R, Redston M, Gallinger S:** Hereditary nonpolyposis colorectal cancer-molecular basis. *Surgery*: July 2003; 134(1): pp 29-33.

**Murray CA, McCready DR, Leong WL, Ghazarian DM:** Histopathologic patterns of melanoma metastases in sentinel lymph nodes. *Journal of Clinical Pathology*: January 2004; 57: pp 64-7.

**Campbell PT, Cotterchio M, Klar N, McLaughlin JR, Gallinger S:** Colorectal cancer risk among post-menopausal hormone users in a population-based familial case-control study. *Annals of Epidemiology*: September 2003; 13(8): pp 562.

**Charames GS, Bapat B:** Genomic instability and cancer. *Current Molecular Medicine*: November 2003; 3(7): pp 589-596.

**Cleary SP, Gryfe R, Guindi M, Greig P, Smith L, Mackenzie R, Strasberg S, Hanna S, Taylor B, Langer B, Gallinger S:** Prognostic factors in resected pancreatic adenocarcinoma: analysis of actual 5-year survivors. *Journal of American College and Surgeons*: May 2004; 198(5): pp 722-731.

**Cummings BJ, Ajani JA, Swallow CJ:** Cancer of the anal region. In: *Cancer: Principles and Practice of Oncology* (De Vita, V.T. Jr; Hellman, S., Rosenberg, S.A., eds). Lippincott Williams & Wilkins, Philadelphia: 2004:

**Easson AM:** Office of Promoting Excellence in End-of-life care: surgeons' palliative care workgroup report from the field. *Journal of the American College of Surgeons*: September 2003; 197(4): pp 661-686.

**Easson AM, McCready DR:** The management of local recurrence of breast cancer. *Expert Review in Anticancer Therapy*: February 2004; 4(2): pp 219-226.

**Esplen M.J., Berk T, Butler K, Gallinger S, Cohen Z, Trinkhaus M:** Quality of Life in Adults Diagnosed with Familial Adenomatous Polyposis and Desmoid Tumor. *Diseases of the Colon and Rectum*: May 2004; 47: pp 687-696.

**Esplen MJU, Urquhart C, Butler K, Gallinger S, Aronson M, Wong J:** The experience of loss and anticipation of distress in colorectal cancer patients undergoing genetic testing. *Journal of Psychosomatic Research*: September 2003; 55(5): pp 427-435.

- Figueredo A, Rumble RB, Maroun J, Earle CC, Cummings B, McLeod RS, Zuraw L, Zwaal C:** Follow-up of patients with curatively resected colorectal cancer : a practice guideline. *BMC Cancer*: October 2003: 3: pp 26.
- Furlan JC, Bedard YC, Rosen IB:** Clinicopathologic significance of histologic vascular invasion in papillary and follicular thyroid carcinomas. *Journal of the American College of Surgeons*: March 2004: pp 341-348.
- Furlan JC, Rosen IB:** Prognostic relevance of previous exposure to ionizing radiation in the management of well-differentiated thyroid cancer. *Langenbeck's Archives of Surgery*: March 2004:
- Gallinger S, Aronson M, Katayoon S, Ratcliffe EM, Gerstle JT, Parkin PC, Rothenmund H, Croitoru M, Baumann E, Durie PR, Weksberg R, Pollett A, Riddell RH, Ngan BY, Cutz E, Lagarde AE, Chan HSL:** Gastrointestinal cancers and neurofibromatosis type 1 features in children with a germline homozygous MLH1 mutation. *Gastroenterology*: January 2004: 126(2): pp 576-585.
- Glebov OK, Rodriguez LM, Nakahara K, Jenkins J, Cliatt J, Humbyrd CJ, DeNobile J, Soballe P, Simon R, Wright G, Lynch P, Patterson S, Lynch H, Gallinger S, Bauchbinder A, Gordon G, Hawk E, Kirsch IR:** Distinguishing right from left colon by the pattern of gene expression. *Cancer Epidemiology, Biomarkers and Prevention*: August 2003: 12(8): pp 755-762.
- Gryfe R, Ribic CM, Sargent DJ:** Microsatellite instability in colon cancer. *New England Journal of Medicine*: October 2003: 349(18): pp 1776-1776.
- Haddad R, Vincent JB, Gryfe R, Kim H, Wen J, Redston M, Scherer SW, Gallinger S:** Chromosome 7q31 allelic imbalance and somatic mutations of RAY1/ST7 gene in colorectal cancer. *Cancer Letters*: January 2004: 203(1): pp 87-90.
- Johnson P, Richard C, Ravid A, Spencer L, Cohen Z, McLeod R:** Female Infertility After Pelvic Pouch Surgery for Ulcerative Colitis. *Diseases of the Colon and Rectum*: June 2004: 47: pp 1119-1126.
- Law CHL, Hann SS, Wei A, Al-Zahrani M, Taylor B, Greig P, Langer B, Gallinger S:** Pancreatic resection for metastatic renal cell carcinoma: Presentation, treatment and outcome. *Annals of Surgical Oncology*: October 2003: 10(8): pp 922-926.
- MacDonald N, Easson AM, Mazurak VC, Dunn GP, Baracos VE:** Understanding and managing cancer cachexia. *Journal of American College of Surgeons*: July 2003: 197(1): pp 143-61.
- MacLean AR, Lilly L, Cohen Z, O'Connor BI, McLeod RS:** Outcome of inflammatory bowel disease in patients undergoing liver transplantation for primary sclerosing cholangitis. *Diseases of the Colon and Rectum*: August 2003: 46: pp 1124-8.
- MacRae HM, Regehr G, Brennen F, MacKenzie M, McLeod RS:** Assessment of critical appraisal skills. *American Journal of Surgery*: January 2004: 187: pp 120-3.
- Madlensky L, Esplen MJ, Gallinger S, McLaughlin JR, Goel V:** Relatives of colorectal cancer patients. Factors associated with screening behavior. *American Journal of Preventive Medicine*: October 2003: 25(3): pp 187-194.
- McLeod RS:** Physician bias about participation in clinical trials? Editorial. *Surgery*: February 2004: 135: pp 235-236.
- McLeod RS:** Surgical management of Crohn's disease. In: *Kirshner's IBD, 6th Edition* (Sartor RB, Sandborn WJ, eds). WB Saunders, London, UK: 2004:
- McLeod RS, Bohnen JMA;** for members of the CAGS Evidence Based Reviews in Surgery Group: Canadian Association of General Surgeons Evidence Based Reviews in Surgery. 9. Risk factors for retained foreign bodies after surgery. *Canadian Journal of Surgery*: February 2004: 47: pp 57-59.
- McLeod RS, Cohen Z:** Quality of life with a stoma. In: *Intestinal Stomas : Principles, Management and Techniques 2nd Edition* (Cataldo P, MacKeigan J, eds). Marcel Dekker, Inc., New York: 2004: pp 91-109.
- McMullen, T.P.W., Easson, A.M., Cohen, Z., Swallow, C.J:** The investigation of primary rectal cancer by surgeons: Current pattern of practice. *Canadian Journal of Surgery* 2004 (in press): January 2004:
- Newman B, Silverberg MS, Gu X, Zhang O, Lazaro A, Steinhart AH, Greenberg GR, Griffiths AM, McLeod RS, Cohen Z, Fernandez-Vina M, Amos CI, Siminovitch K:** CARD15 and HLA DRB1 alleles influence susceptibility and disease localization in Crohn's disease. *American Journal of Gastroenterology*: February 2004: 99: pp 306-15.
- Ng A, Easson AM:** Selection and preparation of candidates for surgical palliation. In: *Surgical Palliative Care* (Dunn, DP, Johnson AG, eds). Oxford University Press, Oxford, North Carolina, USA: 2004: pp 16-32.
- Poritz L, Gagliano AG, McLeod RS, MacRae H, Cohen Z,:** Surgical management of cutaneous abdominal fistulae in crohn's disease - a 17 year experience. *International Journal of Colorectal Disease*: May 2004:
- Ribic CM, Sargent DJ, Moore MJ, Thibodeau SN, French AJ, Goldberg RM, Hamilton SR, Laurent-Puig P, Gryfe RN, Shepherd LE, Tu D, Redston M, Gallinger S:** Tumor microsatellite instability as a predictor of survival benefit from 5-fluorouracil-based adjuvant chemotherapy in colon cancer. *New England Journal of Medicine*: July 2003: 349(3): pp 247-257.
- Sahajpal AK, Vollmer CM, Pollett A, Gallinger S:** Sclerosing pancreatitis presenting as a periampullary tumour. *HPB -Case Report*: December 2003: 5(4): pp 268-272.
- Swallow, C.J., Ko, M.A., Siddiqui, N., Dennis, J.W:** Sak/PLK 4 and mitotic fidelity. *Oncogene* (in press): January 2004:

**Swallow CJ, Partridge EA, Macmillan JC, Tajirian T, Hay K, Clemens K, Jahnen-Dechent W, Redstone M, Gallinger S, Dennis JW:** Alpha 2HS-glycoprotein, a TGF-beta antagonist, is depleted in human colorectal cancer and inhibits tumor progression in the Min/+ mouse. *Cancer Research* (in press): January 2004:

**Trieu Y, Wen W-Y, Skinnider BF, Bray MR, Li Z, Claudio J, Masih-Khan E, Trudel S, McCart JA, Mak TW, Stewart AK:** Adenovirus-mediated gene delivery of the soluble IL-13 decoy receptor inhibits Hodgkin lymphoma growth in vitro and in vitro. *Cancer Research*: May 2004: 64: pp 3271-3275.

**Truta B, Allen BA, Contrad PG, Kim YS, Berk T, Gallinger S, Bapat B, Terdiman JP, Sleisenger MH:** Genotype and phenotype of patients with both familial adenomatous polyposis and thyroid carcinoma. *Familial Cancer*: September 2003: 2(2): pp 95-99.

**Wright FC, Law CHL, Last L, Khalifa M, Arnaout A, Naseer Z, Klar N, Gallinger S, Smith AJ:** Lymph node retrieval and assessment in stage II CRC: A population-based study. *Annals of Surgical Oncology*: October 2003: 10(8): pp 903-909.

#### INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Bapat BV:** Invited as a Chair and Presenter- ISPO Conference 7th International Symposium on Molecular Basis of Predictive Oncology and Intervention Strategies, Nice, France, February 2004. Focus lecture.

**Bapat BV:** 8th World Congress on Advances in Oncology and 6th International Symposium on Molecular Medicine, Crete, Greece, October 2003. Molecular genetic and clinico-pathologic characteristics of mutator versus suppressor phenotypes of endometrial cancer.

**Cohen Z:** Tec de Monterrey University, Monterrey, Mexico, March 2004. 1). Familial Adenomatous Polyposis. 2). Update in Inflammatory Bowel Disease Surgery.

**Cohen Z:** Mexican General Surgical Society, Monterrey, Mexico, May 2004. 1). Genotype and Phenotype Correlations in Familial Adenomatous Polyposis. 2). Small Bowel Obstructions and Adhesions. 3). Update in Inflammatory Bowel Disease Surgery.

**Easson AM:** Royal College of Physicians and Surgeons of Canada (Symposium), Halifax, Nova Scotia, September 2003. Bringing back humanism to enhance professionalism in residency education.

**Easson AM:** Willow breast group and resource services, Toronto, Ontario, October 2003. Lecture: Surgery for breast cancer.

**Easson AM:** Hamot Palliative Care, Hamot Medical Center, Erie, Pennsylvania, November 2003. Lecture: The pathophysiology of anorexia/cachexia syndrome.

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

**Easson AM:** Melanoma Rounds, Sunnybrook and Women's College Hospital, Toronto, Ontario, December 2003. The role of sentinel lymph node biopsy in melanoma: current guidelines.

**Gallinger S:** Regional Oncology Rounds, Juravinski Cancer Centre, Hamilton, Ontario, May 2004. Colorectal Cancer Genetics- Applications for the Clinician.

**Gallinger S:** CAMSO Symposium "Gastrointestinal Malignancies", Toronto, Ontario, April 2004. Molecular Biology in Colorectal Cancer: The Future is Now.

**Gallinger S:** Gastrointestinal Familial Clinic, Toronto, Ontario, May 2004. Ovarian Cancer Plus ++.

**Gallinger S:** 12th Surgical Oncology Symposium -Advances in Surgical Oncology - Tom Baker Cancer Centre, Calgary, Alberta, May 2004. Pancreas cancer- are we getting anywhere?

**Gallinger S:** Ontario Association of Medical Radiation Technologists and Ontario Society of Diagnostic Medical Sonographers, Toronto, Ontario, April 2004. Pancreas Presentation "The Surgical Treatment of pancreatic Masses/Cancer".

**MacRae HM:** The Royal College of Physicians and Surgeons of Canada, Vancouver, British Columbia, September 2003. 1). Laparoscopic Colon Surgery: Current Evidence. 2). The Teaching Surgeon Needs Time to Teach.

**McLeod RS:** Mexican Society of Colon and Rectal Surgery, Acapulco, Mexico, May 2004. (1) Evidence Based Surgery (2) Diagnosis and treatment of complications of the ileo-anal pouch.

**McLeod RS:** Canadian Surgery Forum, Vancouver, British Columbia, September 2003. (1) Presidential Address - Doing what's best for the individual patient (2) Evidence based reviews in surgery.

**McLeod RS:** Grand Rounds - Loyola University, Chicago, Illinois, February 2004. (1) Teaching critical appraisal skills to residents and practicing surgeons (2) Surgery for ulcerative colitis.

**McLeod RS:** American Gastroenterology Association 2004 Spring Postgraduate Course, New Orleans, Louisiana, May 2004. Advances in surgical therapies (including laparoscopy) in IBD.

**McLeod RS:** The Association of Coloproctology of Great Britain and Ireland, Edinburgh, United Kingdom, July 2003. Alasdair MacGregor Memorial Lecture : A Cochrane meta analysis of dietary and pharmacological interventions in the management of colonic adenomas.

**McLeod RS:** American College of Surgeons Clinical Congress, Chicago, Illinois, October 2003. Evidence based surgery - what it is and what it is not.

**McLeod RS:** Lahey Clinic, Boston, Massachusetts, April 2004. Neil Swinton Visiting Professor (1) Risk of recurrent Crohn's disease following surgery (2) Teaching critical appraisal skills to general surgery residents and practicing general surgeons.

**McLeod RS:** Canadian Surgery Forum, Vancouver, British Columbia, September 2003. Prevention of colorectal cancer.

**McLeod RS:** Society for Surgery of the Alimentary Tract, New Orleans, Louisiana, May 2004. Quality of life issues and gastrointestinal function after proctectomy and reconstruction.

**McLeod RS:** St. Mark's 2003 - Frontiers in Intestinal and Colorectal Disease, London, United Kingdom, December 2003. 1). Recurrence and its prevention after surgery for Crohn's disease. 2). Screening for colorectal cancer - The Canadian approach. 3). State of the art lecture - Ileo-anal pouches - the longer term. 4). The 2003 Sir Alan Parks Lecture - Evidence based surgery.

**McLeod RS:** Ontario Association of General Surgeons, Toronto, Ontario, November 2003. 1). Stoma complications. 2). What's new in colorectal surgery?

**McLeod RS:** The Association of Coloproctology of Great Britain and Ireland, Edinburgh, United Kingdom, July 2003. Surveillance of pouches.

**McLeod RS:** Resident Research Day, University of Calgary, Calgary, Alberta, April 2004. Teaching critical appraisal skills to practicing general surgeons and general surgery residents.

**McLeod RS:** Dartmouth Medical School, Hanover, New Hampshire, August 2003. Teaching critical appraisal skills to practicing general surgeons and residents.

**McLeod RS:** American College of Surgeons Clinical Congress, Chicago, Illinois, October 2003. What the evidence based practitioner needs to know.

**Rosen IB:** Toronto Medical History Club, Toronto, Ontario, February 2004. A 20th century event.

**Swallow CJ:** CSSO, Toronto, Ontario, April 2004. 1).Annual Scientific Meeting, Scientific Program, Session Chair. 2). Update on the management of regional nodes in breast cancer, melanoma and colon cancer. Organizer and Chair.

**Swallow CJ:** Surgical Oncology Network Symposium, Toronto, Ontario, October 2003. Colorectal Cancer Session, Chair.

**Swallow CJ:** North York General Hospital Inaugural Surgical Oncology Rounds, Toronto, Ontario, April 2004. Combined Management of Retroperitoneal Sarcoma. Guest speaker and discussant.

**Swallow CJ:** American Society of Clinical Oncology, New Orleans, Louisiana, June 2004. Sarcoma Oral Presentation Session, Co-Chair.

## RESEARCH AND INVESTIGATIONS

### *Senior Investigator's Name Appears in Italics*

A novel pancreatic cancer tumor suppressor candidate gene. *Gallinger, Steven: The Lustgarten Foundation for Pancreatic Cancer Research* (\$98,740 2004).

A phase I/II trial of celecoxib with preoperative chemoradiation for resectable rectal cancer with in vivo analysis of celecoxib effector pathways. *John Kim, Carol J. Swallow, Alexandra Easson, Bernard Cummings, Rebecca Wong, Yi Qi-ling, Lillian Siu, James Brierley, Pamela Catton: Ontario Cancer Research Network* (\$150,000 2003 - 2006).

A population based study of the outcomes of transanal resection for rectal cancer. *Calvin Law, N. Klar, H. Stern, C. Swallow, A. Smith, F. Wright: National Cancer Institute of Canada* (\$172,767 2003 - 2005).

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

A prospective study of intervals and delays in the diagnosis of cancer. *Bondy, S, Angus J, Benk V, Easson A, Grunfeld E, Hodgson D, Holowaty E, Iscoe N, Loblaw A, Kim J, Paszat L, Smith A, Stukel T, Ung Y, Wong R: Canadian Institute of Health Research* (\$488,602 2002 - 2005).

Assessment of the relief of symptoms after the drainage of ascites: an evaluation of four questionnaires. *Easson, AM, Bezjak A, Ross S: The Physician Services Incorporated* (\$31,000 2003 - 2004).

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).

- 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).
- Ductoscopy of breast diseases. *WL, Leong, AM, Easson, DM. McCready: Nelson Arthur Hyland Foundation* (\$25,000 2004 - 2007).
- Ductoscopy of breast diseases. *WL, Leong, AM, Easson, DM. McCready: Den Haag Breast Cancer Foundation* (\$128,000 2004 - 2007).
- Epidural analgesia use in colorectal cancer surgery : Trends over time and factors associated with utilization. *McLeod RS, Johnson P: Physicians' Services Incorporated* (\$15,000 2004 - 2005).
- 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).
- Fiberoptic ductoscopy of the breast for the management of nipple discharge. *Easson AM, Leung W, McCready D: Princess Margaret Hospital Breast Centre Women's Committee* (\$25,000 2003).
- Fiberoptic ductoscopy of the breast for the management of nipple discharge. *Easson AM, Leung W, McCready D: Den Haag Breast Cancer Foundation* (\$126,000 2003 - 2004).
- Improving care and research in pancreas cancer in Ontario-A population-based study. *Steven Gallinger, Michelle Cotterchio, Eric Holowaty, Malcolm Moore, David Urbach: Ontario Cancer Research Network* (\$370,000 2003 - 2006).
- Multi-Centre Randomized Controlled Trial to Compare Stapled Functional End-to-End Anastomosis With Sutured End-to-End Anastomosis Following Resection for Primary or Recurrent Ileocolonic Crohn's Disease. *McLeod RS, Wolff BG, Ross S, Reznick R, Phang T, Buie D, Silverman R, Plewes A, Taylor B, Richard C, Belliveau P, Gregoire R, MacDonald H, Vasilevsky C, Schoetz D, Strong S, Fleshman J: Crohn's and Colitis Foundation of America* (\$276,000 2000 - 2003).
- Multi-Centre Randomized Controlled Trial to Compare Stapled Functional End-to-End Anastomosis With Sutured End-to-End Anastomosis Following Resection for Primary or Recurrent Ileocolonic Crohn's Disease. *McLeod RS, Wolff BG, Ross S, Reznick R, Phang T, Buie D, Silverman R, Plewes A, Taylor B, Richard C, Belliveau P, Gregoire R, MacDonald H, Vasilevsky C, Schoetz D, Strong S, Fleshman J: Canadian Institutes of Health Research* (\$345,000 2001 - 2004).
- Ontario Registry for studies of familial colorectal cancer. Renewal. *Steven Gallinger, Andrulis, I.; Bapat, B; Knight, J. and 25 others: National Institutes of Health (NCIC)* (\$10,700,000 2002 - 2007).
- Pancreatic cancer linkage consortium. *G.M. Petersen, Gallinger, S. and 27 others: National Institutes of Health* (\$7,000,000 2002 - 2007).
- Phase I/II trial of celecoxib with preoperative chemoradiation for resectable rectal cancer with in vivo analysis of celecoxib effector pathways. *Kim, J, Brierley J, Ward I, Headley D, Tsao M, Cummings B, Ringash J, Catton P, Wong R, Swallow C, Easson A, Siu L, Yi Q: Ontario Cancer Research Network* (\$33,033 2003 - 2006).
- Polo kinases in mitosis and cancer progression. *James W. Dennis, Carol J. Swallow: National Cancer Institute of Canada* (\$411,000 2002 - 2005).
- Preclinical assessment of vaccinia virus for cancer gene therapy and functional tumour imaging. *McCart JA, Reilly R: Ontario Cancer Research Network* (\$451,538 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).
- Role of the mitotic regulator Sak in colorectal carcinogenesis. *Carol J. Swallow: Body 'N Soul Colorectal Cancer Research Fund* (\$20,000 2003 - 2006).
- The Effects of Progressively More Challenging Practice on the Acquisition of Laparoscopic Suturing. *MacRae HM, Dubrowski A: The Physicians' Services Incorporated Foundation* (\$16,000 2003).
- The genomics of hepatocellular carcinoma: Identifying therapeutic targets and avenues for prevention. *Ian D McGilvray, Aled Edwards, David Grant, Jenny Heathcote, Steven Gallinger: Ontario Cancer Research Network* (\$689,000 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**

**Cohen Z:** ASCRS Mentor Award, May 2004.

**McLeod RS:** 3rd Annual Charles H. Tator Surgeon-Scientist Mentoring Award, May 2004.

**McLeod RS:** Best Poster Award, Canadian Association of General Surgeons, Canadian Surgical Forum (with Kelly S), September 2003.

**McLeod RS:** Fellow ad hominem - The Royal College of Surgeons of Edinburgh, July 2003.

## DIVISION OF ORTHOPAEDIC SURGERY

**Dr. D. Backstein - Assistant Professor**

**Dr. R.S. Bell - Professor of Surgery**

**Dr. E.L. Boynton - Assistant Professor**

**Dr. P.C. Ferguson - Assistant Professor**

**Dr. A.E. Gross – Professor (Division Head)**

**Dr. D. MacIntosh - Associate Professor**

**Dr. E.A. Silverstein - Assistant Professor**

**Dr. J.S. Wunder - Assistant Professor**

## PUBLICATIONS

**Backstein D, Agnidis Z, Reznick R, Regehr G:** The Effectiveness of Video Feedback in the Development of Technical Skills in Surgical Residents. *American Journal of Surgery*: March 2004: 187: pp 427-432.

**Backstein D, Meisame B, Gross AE:** Patella baja after the modified coventry-maquet high tibial osteotomy. *The Journal of Knee Surgery*: October 2003: 16, No. 4: pp 203-208.

**Backstein, D, Reznick R:** Standardized Patients & Teleconferencing for CME: Combining Innovative Ideas. *Medical Education*: December 2003: 37: pp 1066.

**Bell RS:** Musculoskeletal surgical oncology practice. *Clinical Orthopaedics and Related Research*: October 2003: 415: pp 2- 3.

**Bell RS:** Treatment of axial skeleton bone metastases. *Clinical Orthopaedics and Related Research*: October 2003: 415 Suppl: pp S198-200.

**Clarkson P, Ferguson PC:** Management of Soft Tissue Sarcomas of the Extremities. *Expert Review of Anticancer Therapy*: April 2004: 4: pp 237-246.

**Dantzer D, Ferguson P, Hill RP, Keating A, Kandel RA, Wunder JS, O’Sullivan B, Sandhu J, Waddell J, Bell RS:** Effect of Radiation and cell implantation on wound healing in a rat model. *J Surgical Oncology*: July 2003: 83(3): pp 185-90.

**Davis AM, Schemitsch EH, Gollish JD, Saleh KJ, Davey R, Kreder HJ, Mahomed NN, Waddell JP, Szalai JP, Gross AE:** Classifying failed hip arthroplasty: Generalizability of reliability and validity. *Clinical Orthopaedics and Related Research*: October 2003: No. 415: pp 171-179.

**Elias DA, White LM, Simpson DJ, Kandel RA, Tomlinson G, Bell RS, Wunder JS:** Osseous invasion by soft-tissue sarcoma: assessment with MR imaging. *Radiology*: October 2003: 229(1): pp 145-52.

**Gerrand CH, Wunder JS, Kandel RA, O’Sullivan B, Catton CN, Bell RS, Griffin AM, Davis AM:** The influence of anatomic location on functional outcome in lower-extremity soft-tissue sarcoma. *Annals of Surgical Oncology*: May 2004: 11(5): pp 476-482.

**Gerrand CH, Griffin AM, Davis AM, Gross A, Bell RS, Wunder JS:** Large segment allograft survival is improved with intramedullary cement. *Journal of Surgical Oncology*: December 2003: 84 (4): pp 198-208.

**Ghert MA, Ferguson PC:** Primary Bone and Soft Tissue Tumors in the Geriatric Population. *Geriatrics and Aging*: May 2004: 7: pp 37-41.

**Gross AE:** Modular proximal or distal fixation: Tinker toys. *Orthopaedics*: September 2003: 26, No. 9: pp 937-928.

**Gross AE:** The role of allograft tissue in lower extremity reconstructive surgery. *Orthopaedics*: September 2003: 26, No. 9: pp 927-928.

**Kauzman A, Li SQ, Bradley G, Bell RS, Wunder JS, Kandel RA:** Central giant cell granuloma of the jaws: Assessment of cell cycle proteins. *Journal of Oral Pathology and Medicine*: March 2004: 33: pp 170-176.

**Lau JTC, Ferguson PC, Wunder JS:** Tumors. In: *Orthopaedic Knowledge Update: Foot and Ankle 3* (Richardson EG, ed). American Academy of Orthopaedic Surgeons, Rosemont, Illinois: 2003: pp 189-198.

**Lau JTC, Ferguson PC, Wunder JS:** “Tumors” in Richardson EG (ed). In: *Orthopaedic Knowledge Update Foot and Ankle 3* (American Academy of Orthopaedic Surgeons, 2003, eds). American Academy of Orthopaedic Surgeons, Rosemont, Illinois: 2003: pp 189-198.

**O’Dea FJ, Wunder JS, Bell RS, Griffin AM, Catton CN, O’Sullivan B:** Preoperative radiotherapy is effective in the treatment of fibromatosis. *Clinical Orthopaedics and Related Research*: October 2003: 415: pp 19 - 24.



**O'Sullivan B, Bell RS:** Has "MAID" made it in the management of high-risk soft-tissue sarcoma? *International Journal of Radiation Oncology, Biology, Physics*: July 2003; 56 (4): pp 915-916.

**O'Sullivan B, Gullane P, Irish J, Neligan P, Gentili F, Mahoney J, Sellman S, Catton CN, Waldron J, Witterick I, Freeman J, Bell, RS:** Preoperative radiotherapy for adult head and neck soft tissue sarcoma: Assessment of wound complications rates and cancer outcome in a prospective series. *World Journal of Surgery*: July 2003; 27(7): pp 875-883.

**O'Sullivan B, Wunder J, Pisters PW:** Target description for radiotherapy of soft tissue sarcoma. In: *Clinical Target Volumes in Conformal Radiotherapy & Intensity Modulated Radiotherapy* (V. Gregoire, P. Scalliet & KK Ang (Eds), eds). Heidelberg, Springer,: 2003:

**Robinson P, White LM, Agur A, Wunder JS, Bell RS:** Obturator externus bursa: Anatomic origin and MR imaging features of pathologic involvement. *Radiology*: July 2003; 32(5): pp 230-234.

**Robinson P, White LM, Kandel R, Bell RS, Wunder JS:** Primary synovial osteochondromatosis of the hip: Extracapsular patterns of spread. *Skeletal Radiology*: April 2004; 33 (4): pp 210-215.

**Shasha N, Krywulak S, Backstein D, Pressman A, Gross AE:** Long term follow-up of fresh tibial osteochondral allografts for failed plateau fractures. *Pittsburgh Bone Symposium 2003 Carnegie Mellon, University of Pittsburgh, Pittsburgh*: 2003: pp 335-351.

**Spouge AR, Bell RS:** Magnetic resonance imaging of bone tumours and mimics: Pictorial essay. *Canadian Association of Radiologists Journal*: October 2003; 54(4): pp 221-233.

**Wunder JS, Ferguson PC, Griffin AM, Pressman A, Bell RS:** Acetabular metastases: Planning for reconstruction and review of results. *Clinical Orthopaedics and Related Research*: October 2003; 415 Suppl: pp S187 - 197.

#### INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Backstein D:** Insall Club, Sorrento, Italy, June 2004. 1). Anterior Femoral Notching during Total Knee Arthroplasty; A Biomechanical Analysis. 2). Long-Term Follow-up of Fresh Osteochondral Allografts for Post-Traumatic Defects in the Knee.

**Backstein D:** Advances in the Management of VTE--Educator's Forum (Sanofit-Synthelabo), Deerhurst Resort; Huntsville, Ontario, July 2003. Needs Assessment for Orthopaedic Surgery.

**Backstein D:** Knee Society Annual Meeting at the American Academy of Orthopaedic Surgeons 2004, San Francisco, California, March 2004. Report of the 2003 Insall Travelling Fellows.

**Bell RS:** Canadian Institute of Academic Medicine, Halifax, Nova Scotia, April 2004. A Case Study: SARS and the response of the academic health sector. Panel Discussion: Impacts of SARS on hospitals - Dr. Bob Bell.

**Bell RS:** Australian Sarcoma Group Meeting, Melbourne, Australia, October 2003. 1). Approach to patients presenting with pulmonary metastatic disease at diagnosis: The Canadian experience. 2). Eosinophilic granuloma. 3). Fractures in osteosarcoma. 4). Function and health status. 5). Functional outcome in sarcoma.

**Bell RS:** Ontario Association of Pathologists, 66th Annual General Meeting, Stratford, Ontario, May 2004. Cancer Care Ontario Lecture - Role of the Pathologist in the New CCO.

**Bell RS:** American Academy of Orthopaedic Surgeons - Musculoskeletal Tumor Society Specialty Day, San Francisco, California, USA, March 2004. Expert Panel for Session IV: Ask the Experts: "The Details" in Orthopaedic Oncology.

**Bell RS:** Australian Sarcoma Group Meeting, Melbourne, Australia, October 2003. Functional Outcome: Limb sparing surgery versus amputation.

**Bell RS:** 33rd Annual Orthopaedic Residents Scientific Program: Department of Orthopaedic Surgery, School of Medicine and Biomedical Sciences, State University of New York, Buffalo, New York, June 2004. Interdisciplinary Health Research Team in Musculoskeletal Neoplasia: The Canadian Experience.

**Bell RS:** Australian Sarcoma Group Meeting, Melbourne, Australia, October 2003. Langerhan's cell histiocytosis (Eosinophilic granuloma).

**Bell RS:** Thirty-First Clinical Seminar in Orthopaedic Surgery, sponsored by The Division of Orthopaedic Surgery, Department of Surgery, The University of Western Ontario, London, Ontario, September 2003. 1). Management of Soft Tissue Sarcoma - Visiting Professor Lecture. 2). Molecular abnormalities in sarcoma treatment - Kennedy Memorial Lecture.

**Bell RS:** Australian Sarcoma Group meeting, Melbourne, Australia, October 2003. My preferred approach to the treatment of GCT's. 2). Pathologic fracture in osteosarcoma: Significance and management. 3). What to do with unexpected positive margins.

**Boynton EL:** Canadian Orthopaedic Association, Winnipeg, Manitoba, October 2003. Presentation of Samson Award, The Role of the Macrophage and Polyethylene Surface Chemistry in Total Joint Replacement.

**Ferguson PC:** Ontario Perianaesthesia Nurses Association, Toronto, Ontario., October 2003. Orthopaedic Oncology.

- Ferguson PC:** North York General Hospital Surgical Grand Rounds, Toronto, Ontario, March 2004. Orthopaedic Oncology - The Spectrum of Care.
- Gross AE:** 18th Annual Vail Orthopaedic Symposium 2004, Total Hip and Knee, Vail, Colorado, January 2004. Acetabular revision - classification and treatment (2) Femoral revision - classification and treatment (3) Use of femoral components in revision THR.
- Gross AE:** Musculoskeletal Transplant Foundation International Symposium, Edinburgh, Scotland, September 2003. Cartilage repair and replacement (2) Long-term follow-up on fresh osteochondrals for post-traumatic knee defects.
- Gross AE:** Pittsburgh Bone Symposium 2003, Pittsburgh, Pennsylvania, August 2003. Distinguished Clinical Lecture - Allograft bone and cartilage in reconstructive surgery of the lower extremity.
- Gross AE:** Zimmer Grand Rounds, Phoenix, Arizona, October 2003. Revision arthroplasty of the acetabulum with bone grafting (2) Revision arthroplasty of the femur with bone grafts (3) Classification of bone defects in revision arthroplasty of the hip.
- Gross AE:** 88 National Congress of the Italian Orthopaedics and Traumatology, Rome, Italy, November 2003. Revision knee arthroplasty in the presence of severe bone defects (2) Total hip replacement for dysplasia.
- Gross AE:** Joint Replacement State of Art Conference 2003, Mumbai, India, October 2003. Role of allografts in hip surgery (2) Osteochondral allografts for posttraumatic defects of the knee (3) Use of modular implants in revision arthroplasty of the femur (4) Minimally invasive hip surgery (5) Use of structural allografts for peri-prosthetic fractures of the proximal femur.
- Gross AE:** Republic of China Orthopaedic Association Meeting, Taiwan, October 2003. The rationale and surgical technique for mini incision THA (2) Revision arthroplasty of the acetabulum and femur with restoration of bone stock.
- Wunder JS:** Grand Rounds - Rhode Island Hospital, Rhode Island, USA, October 2003. 1) Predicting Outcomes in Osteosarcoma. 2) Gene Expression Profiling for Sarcomas 3) Predicting the Clinical Behaviour of Osteosarcoma using Molecular Alterations.
- Wunder JS:** HealthStream - Emerging Trends: Whistler 2004 Orthopaedic Symposium: Knee & Hip Sessions, Whistler, BC, Canada, February 2004. Heavy Metal Versus Proximal Femoral Allografts. 2). Management of Acetabular Bone Loss Secondary to Metastatic Disease.
- Wunder JS:** Musculoskeletal Oncology Visiting Professor 2004, Minneapolis, MN, April 2004. Predicting outcomes in soft tissue sarcoma.
- Wunder JS:** Sarcoma Progress Review Group Roundtable Meeting, Philadelphia, Pennsylvania, October 2003. Sarcoma Research and Funding Challenges.
- Wunder JS:** British Orthopaedic Oncology Society Annual Conference, Newcastle-upon-Tyne, England, June 2004. Should Soft Tissue Sarcoma Patients Receive Pre-OP Radiotherapy.
- Wunder JS:** National Cancer Institute/Children's Oncology Group: Osteosarcoma Biology Meeting, Chicago, O., February 2004. Towards Improving the Classification of Sarcomas: New Advances.

## RESEARCH AND INVESTIGATIONS

### *Senior Investigator's Name Appears in Italics*

- Anterior Femoral Notching During Total Knee Arthroplasty: A Biomechanical Analysis. *Backstein D, Zalzal P: University of Toronto Zimmer Competition (\$10,000 2004 - 2005).*
- Hedgehog signaling in cartilaginous neoplasia: Implications for treatment. *Jay S. Wunder; Benjamin A. Alman: Canadian Institutes of Health Research - CIHR x 5 years (\$159,332 2003 - 2008).*
- Interdisciplinary Health Research Team (IHRT) in Musculoskeletal Neoplasia. *Bell RS, Alman B, Andrulis IL, Bramwell V, Davis AM, Greenberg M, Hill R, Kandel RA, Malkin D, Masri B, O'Sullivan B, Turcotte R, Wunder JS: Canadian Institutes of Health Research (\$6,136,475 2001 - 2005).*
- Macrophages and the role of PE chemistry in total joint replacement failure. *Boynnton EL: The Arthritis Society (\$45,000 1999 - 2003).*
- New measures for quantifying soft tissue fibrosis. *Davis AM, Bell RS, Lee P, O'Sullivan B, Hill R, Levin W, Wunder JS, Inman R, McCready D: National Institutes of Health Research (\$99,421 2003 - 2006).*
- Predicting clinical outcome in osteosarcoma using microarray analysis. *Wunder, JS, Wenqing He, Irene L., Andrulis: Ontario Cancer Research Network (\$140,000 2003 - 2006).*
- Predictors of disability outcomes following revision total knee arthroplasty. *Davis A, Mohammed N, Gross AE, Szalai J, Schemitsch E, Kreder H, Macdonald SJ, Gignac M, Garbuz D, Sekundiak T, Bogoch E, Davey JR: Canadian Institutes of Health Research (\$68,365 2001 - 2004).*
- The Effectiveness of Video Feedback in the development of Technical Skills in Surgical Residents. *David Backstein, Zoe Agnidis, Richard Reznick, Glenn Regher: University of Toronto, Faculty of Medicine (\$15,500 2003 - 2004).*

The Effects of Part-Whole Practice Schedule on the Acquisition of a Complex Bone Plating Surgical Procedure. *Backstein D, Dubrowski A, Carnahan H: Physician Services Incorporated* (\$27,400 2003 - 2004).

The role of the macrophage in polyethylene mediated total joint replacement failure. *Boynton EL: The Arthritis Society* (\$80,377 2001 - 2004).

The Role of Vision in Surgical Skill Acquisition. *David Backstein, Adam Dubrowski: University of Toronto, Faculty of Medicine* (\$9,740 2003).

Use of Hand Motion and Applied Drilling Force Characteristics in the Evaluation of Surgical Bone Drilling Task. *Dubrowski A, Backstein D: Faculty of Medicine Dean's Fund* (\$10,000 2003 - 2004).

## **HONOURS RECEIVED**

**Backstein D:** John Insall Travelling Knee Fellowship, October 2003.

**Ferguson PC:** Dean's Fund New Staff Grant, "Investigation of the use of bone marrow stromal cells to enhance compromised surgical wound healing", P Ferguson P.I., \$10,000, January 2004.

**Ferguson PC:** Networks of Centres of Excellence funding of AFM Net, P Ferguson Co-Project leader with W.K. Wan (Department of Biomedical Engineering, UWO) "Therapeutic techniques to enhance wound healing in irradiated skin", \$106,000/yr, 2 years, December 2003.

## **DIVISION OF PLASTIC SURGERY**

**Dr. N.H. McKee - Professor**

### **PUBLICATIONS**

**Kuzon WMJr, Aydin MA, Green HJ, Rosenblatt JD, Pynn BR, Plyley MJ, McKee NH:** Metabolic characteristics of experimental free vascularized canine muscle transfers. *Plastic and Reconstructive Surgery*: March 2004: 113 (3): pp 932-41.

**Loh EY, Agur AM, McKee NH:** Intramuscular innervation of the human soleus muscle: a three dimensional model. *Clinical Anatomy*: August 2003: 16: pp 378-382.

### **RESEARCH AND INVESTIGATIONS**

*Senior Investigator's Name Appears in Italics*

Muscle architecture in children with spastic diplegia and Duchenne muscular dystrophy. *McKee NH, Agur AM, Biggar D, Fiume E: KidsAction* (\$54,402 2000 - 2003).

Muscle architecture in children with spastic diplegia and Duchenne muscular dystrophy. *McKee NH, Agur AM, Biggar D, Fiume E: Hospital for Sick Children Foundation* (\$52,814 2000 - 2003).

## DIVISION OF UROLOGY

**Dr. M.B. Buckspan - Associate Professor**

**Dr. K. Jarvi - Associate Professor (Division Head)**

**Dr. P.G. Klotz - Associate Professor**

**Dr. A. Zini - Assistant Professor**

## PUBLICATIONS

**Deane L, Sharir S, Jarvi, K, Zini, A:** High Levels of Sperm DNA Denaturation As The Sole Semen Abnormality In A Patient After Chemotherapy For Testis Cancer. *Journal of Andrology*: January 2004: 25(1): pp 23-4.

**Grober E, Hamstra SJ, Wanzel K, Reznick R, Matsumoto ED, Sidhu RS, Jarvi KA:** Laboratory-Based Training In Urologic Microsurgery with Bench Model Simulators: A Randomized Controlled Trial Evaluating the Durability of Technical Skill. *The Journal of Urology*: April 2004: 171: pp 512.

**Grober Ed, Hamstra SJ, Wanzel KR, Reznick RK, Matsumoto Ed, Sidhu RS, Jarvi JA:** Validation of Novel and Objective Measures of Microsurgical Skill: Hand-motion Analysis and Stereoscopic Visual Acuity. *Microsurgery*: September 2003: 23 (4): pp 317-322.

**O'Brien J, Bowles, B, Kamal KM, Jarvi, K, Zini A:** Does the Gonadotropin-releasing Hormone Stimulation Test Predict Clinical Outcomes After Microsurgical Varicocelectomy? *Urology*: June 2004: 63 (6): pp 1143-7.

**O'Brien HJ, Bowles B, Lazarou S, Jarvi KA, Zini, A:** Prevalence of Andropause and Erectile Dysfunction in Male Infertility Patients. *The Journal of Urology*: April 2004: 171: pp 369.

**O'Brien JH, Bowles B, Kamal KM, Jarvi K, Zini A:** The GnRH Stimulation Test Does Not Predict Clinical Outcome After Microsurgical Varicocelectomy. *The Journal of Urology*: April 2004: 171: pp 411.

**O'Brien, JH, Bowles, B, Kamal, KM, Jarvi, KA, Zini, A:** Microsurgical Varicocelectomy in Couples With Advanced Female Age: Natural History In The Era Of ART. *The Journal of Urology*: April 2004: 171: pp 511.

**Perez Y, O'Brien JH, Sharir S, Jarvi KA, Zini A:** Evaluation of Sperm DNA Integrity, Standard Semen Parameters and Pregnancy Outcomes in Male Infertility. *The Journal of Urology*: April 2004: 171: pp 364-365.

**Zini A, Fischer M, Nam RK, Jarvi K:** Use of Alternative and Hormonal Therapies In Male Infertility. *Urology*: January 2004: 63 (1): pp 141-3.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Jarvi K:** Healthy Living Lecture Series, Mount Sinai Hospital, Toronto, Ontario, June 2004. A Prostate Update.

**Jarvi K:** Canadian Workshop on Human Reproduction & Reproductive Biology, Ottawa, Ontario, May 2004. Genetically Normal Men, Genetically Abnormal Sperm.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

Molecular Basis of the CF Phenotype and it's Modification. *Lap-Chee Tsui*, Peter Durie, Keith Jarvi, Neil Swezey, Joanne Rommens, Christine Bear, Elizabeth Tullis, Mary Corey, Richard Rozmahel: *National Institute of Health* (\$652,035 1999 - 2004).

The Role of Defective Carnitine Transport in Male Infertility. *Ingrid Tein*, Keith Jarvi: *PSI* (\$68,000 2001 - 2003).



# ST. JOSEPH'S HEALTH CENTRE

*Dr. L.C. Smith  
Surgeon-in-Chief*

The past year has been both challenging and exciting for the Department of Surgery at St. Joseph's Health Centre. The main challenge involved wrestling with budget issues while attempting to eliminate lengthened waiting lists created by the SARS epidemic. We were excited to receive Ministry of Health funding for the opening of two new operating rooms, which will result in a volume increase of approximately 20%. This gives us a tremendous opportunity to recruit new staff and provide current surgeons with adequate operating time.

Recently, St. Joseph's completed a strategic planning process, which reaffirmed our vision to become the best community teaching hospital in Canada. The Department of Surgery will continue to focus on our post-graduate and under-graduate teaching programs. The Division of Orthopaedic Surgery will receive senior as well as junior residents, starting July 2004. The Service of General Surgery will begin to receive surgical oncology fellows on an ongoing basis.

Dr. Martin Roscoe became Head of the Service of Orthopaedic Surgery effective July 1, 2003.

Dr. A. Marcuzzi resigned as Head of the Service of Urology and has been replaced by Dr. Anthony McLean as the Interim Head.

Dr. Yaron Shargall joined the Division of Thoracic Surgery in March 2004. Yaron did his thoracic surgical training at the University of Toronto, after completing a residency in cardiothoracic surgery in Israel. Dr. Shargall's main focus will be thoracic oncology. The addition of Dr. Shargall brings the Thoracic Division back to their full complement of three surgeons.

Looking to the future, we plan to continue to provide excellence in teaching and clinical surgery



## ST. JOSEPH'S HEALTH CENTRE

### DIVISION OF GENERAL SURGERY

**Dr. M. Baida - Assistant Professor**

**Dr. T. Harmantas - Lecturer (Division Head)**

**Dr. R. Hart - Lecturer**

**Dr. D. Lindsay - Lecturer**

**Dr. L. C. Smith - Assistant Professor**

### INVITED VISITS TO OTHER HOSPITALS/ UNIVERSITIES

**Smith LC:** McMaster University, Laparoscopic Inguinal/Ventral Hernia Repair Course, Hamilton, Ontario. (1) Laparoscopic inguinal hernia repair - TAPP (anatomy and technique), (2) Complications of inguinal hernia repair, (3) Outcome and cost of laparoscopic versus open technique. April 30, 2004 Vancouver General Hospital, Vancouver, British Columbia, Ventral Hernia Course, February 16, 2004.



#### **DIVISION OF ORTHOPAEDIC SURGERY**

**Dr. A. ElMaraghy - Lecturer**

**Dr. M. Kliman Lecturer**

**Dr. M. Roscoe - Lecturer (Division Head)**

**Dr. G. Vincent - Lecturer**

**Dr. M. Wood - Lecturer**

#### **DIVISION OF PLASTIC SURGERY**

**Dr. J.C. Fielding - Lecturer**

**Dr. L. Kasrai - Assistant Professor**

**Dr. R.J. Knowlton - Lecturer**

**Dr. Ronald H. Levine - Associate Professor (Division Head)**

#### **PUBLICATIONS**

**Ashrafpour H, Huang N, Neligan PC, Forrest CR, Addison P, Moses MA, Levine RH, Pang CY:** Vasodilator effect and mechanism of action of vascular endothelial growth factor (VEGF) in skin vasculature. American Journal of Physiology: November 2003: e-pub: pp pre-print.

#### **DIVISION OF THORACIC SURGERY**

**Dr. C. Compeau - Lecturer**

**Dr. E.H. Spratt - Associate Professor (Division Head)**

**Dr. Y. Shargall – Assistant Professor**

#### **PUBLICATIONS**

**de Perrot M, Chaparro C, McRae K, Waddell TK, Hadjiliadis D, Singer LG, Pierre AF, Hutcheon M, Keshavjee S:** Twenty-year experience of lung transplantation at a single center - Influence of recipient diagnosis on long-term survival. Journal of Thoracic and Cardiovascular Surgery: May 2004: 127: pp 1493-1501.

**Sekine Y, Waddell TK, Matte-Martyn A, Pierre AF, de Perrot M, Fischer S, Marshall J, Granton J, Hutcheon MA, Keshavjee S:** Risk Quantification of Early Outcome after Lung Transplantation: Donor, Recipient, Operative and Post-transplant Parameters. Journal of Heart and Lung Transplantation: January 2004: 23: pp 96-104.

#### **DIVISION OF UROLOGY**

**Dr. A. Marcuzzi -Lecturer**

**Dr. J. H. Wait - Lecturer**

**Dr. A. McLean (Division Head)**

**Dr. U. Jain**

#### **DIVISION OF VASCULAR SURGERY**

**Dr. D. Szalay - Assistant Professor**

**Dr. D. Wooster - Associate Professor (Division Head)**



# ST. MICHAEL'S HOSPITAL

*Dr. J.L. Mahoney  
Surgeon-in-Chief*

## *Heads of Division*

Dr. L. Errett – Cardiac Surgery  
Dr. C. Schlachta – General Surgery  
Dr. R. Moulton – Neurosurgery  
Dr. E. Schemitsch - Orthopaedic Surgery  
Dr. J.L. Mahoney – Plastic Surgery  
Dr. J. Honey – Urology  
Dr. M. Ameli – Vascular Surgery

This has been a year of recovery and further changes. Most of the fall was spent recovering from a spring and summer fraught with disruption in services. Just when we thought we could see the light at the end of the tunnel and were back on track, the city was plunged into darkness. After a stressful couple of weeks, full power was finally restored to the City. I offer my sincere thanks to the Surgeons and staff at St. Michael's Hospital whose dedication to exemplary patient care and their spirit to help overcome the many difficult and trying challenges, we faced last year.

In the fall of 2003, the Province of Ontario and the City of Toronto both had political change, which could potentially have an impact on the delivery of Health Care in Ontario.

In November, through the generous donation of the Volunteer Association, the Ontario Ministry of Health and Long-Term Care, St. Michael's Hospital opened a roof-top Helipad. An elevator for direct access from the Helipad to the Trauma Unit and operating room was also added. Critically ill patients can be transferred by Air Ambulance to St. Michael's Hospital, efficiently.

Most recently, the hospital board of Directors approved the new Strategic Plan – "Reaching New Heights." It has greater focus and emphasis on the environment, culture, and spirit that are part of



St. Michael's Hospital. Meeting the patient needs of an inner city hospital, as well as having the distinction of being designated, as the downtown Trauma Centre requires a dual focus. It also identifies areas of potential development in trauma and other surgical specialties, especially vascular surgery.

## *Division Highlights*

In the Division of Urology they were successful in securing an \$800,000 grant from the Ministry of Health and Long Term Care to build a new MIS Suite for donor Nephrectomy.

Dr. John Honey, Division Head of Urology, was the Scientific Chair at the 2003 World Congress of Endourology in September. He was the senior author of Best Paper at this conference. He also started a two-year accredited basic science and Clinical Fellowship in Endourology and Laparoscopy.

Dr. Robert Stewart received the 2004 Clarice Chalmers Award for Teaching, as well as the Fitzgerald Academy undergraduate teaching award.



Dr. Kenneth Pace became the 2004 Outstanding Teacher of the Art and Science of Clinical Medicine. He also, coordinated the 2004 Phase 2 surgical OSCE. He received a \$40K CUA Scholarship and received the Dean's Fund for New Faculty Award (\$15K).

In the Division of Cardiovascular Surgery - Terrance Donnelly Day was once again a great success

Dr. David Latter is the Chief Examiner for Royal College of Physicians and Surgeon for the Cardiovascular Surgery Candidates.

Drs. Lee Errett and Yves Leclerc set up a Heart Program in China, Trinidad and the Dominican Republic.

Division of Plastic Surgery Our Wound Care Program Workshop was well-attended. Dr. Melinda Musgrave will be joining the Division this year.

#### *Division of General Surgery*

Under the Leadership of Dr. Jarley Koo, this spring, we saw the Opening of the CIBC Breast Centre, a lifelong dream of Dr. Leo Mahoney, who dedicated his career to improving health care for women.

Dr. John Bohnen received the Fitzgerald Academy Teaching Award

Dr. Najma Ahmed received Fitzgerald Academy Teaching Award for her PBL Teaching

Dr. Jameel Ali was awarded the Trauma Achievement Award for 2004 by the ACS Committee on Trauma for meritorious service. This award is an annual award to a trauma surgeon selected from among trauma surgeons in United States, Canada and the international community, involved in the ACS trauma-related activities.

Drs. Ali and Ahmed also brought the ATOM course (Advanced Trauma Management) to St. Michael's Hospital. This was a University of Toronto event in conjunction with Sunnybrook & Women's College Health Science Centre. We were the first centre in Canada to host this course.

Dr. C. Schlachta was course coordinator for the Postgraduate Course on Advanced Laparoscopic Surgery at the Canadian Surgery Forum in Vancouver, Sept 2003. This course involved live telesurgery demonstrations from three hospitals across the country. Saint Michael's Hospital was one of those.

The Division of Orthopaedic Surgery\_

Dr. Timothy Daniels has been promoted to the rank of Associate Professor.

At the recent American Academy Orthopaedic Surgery, Dr. Mike McKee won the Edwin Bovill Award for the best Orthopaedic Trauma paper entitled, "Previously Unrecognized Deficits After Non-Operative Treatment Of Displaced, Mid-Shaft Fracture Of The Clavicle Detected By Patient-Based Outcome Measure And Objective Muscle Strength Testing."



## **DIVISION OF CARDIAC SURGERY**

**Dr. D. Bonneau - Associate Professor**

**Dr. L.E. Errett - Associate Professor (Division Head)**

**Dr. D.A. Latter - Associate Professor**

**Dr. Y. LeClerc - Assistant Professor**

**Dr. J.K.Y. Yao - Assistant Professor**

## **PUBLICATIONS**

**Diamantouros A, Beattie N, Song J, Darling PB, Hanning R, Errett L, Keith M:** Lifestyle change following cardiac surgery: Clinical Implications. Canadian Cardiovascular Congress 2003, Toronto, ON. Canadian Journal of Cardiology 2003: July 2003: Suppl 19: pp 169A.

**Fam NP, Billia P, Han R, Proteau G, Latter D, Errett L, Salasidis G, Bonneau D, LeClerc Y, Dunne R, Mokbel R, Stewart DJ:** Regulation of antipoinetin gene expression in human ischemic myocardium. Canadian Journal of Cardiology 2003: July 2003: Suppl 19: pp 140A.

## **INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

**Errett LE:** Bayer Inc., Orford, Quebec, September 2003. The 4th Annual Cardiac Team Meeting. 1). Mechanical considerations for managing the failing heart. Panel and case study interactive moderator. 2). Forgotten Principles: Nutrition - is the patient medically optimized?

## **RESEARCH AND INVESTIGATIONS**

*Senior Investigator's Name Appears in Italics*

Myovive Clinical Study: Multi-centre Randomized Trial. *Errett L, Bonneau D, Latter D, Leclerc Y, Peniston C, Quantz M, Fremes S: Numico Research* (\$444,000 2003 - 2005).

The "ADVANTAGE" heart valve study. *Errett LE, Bonneau D, Latter D, Leclerc Y, Salasidis G: Medtronic of Canada Ltd.* (\$600,000 2001 - 2003).

## **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**

**Dr. J. Koo - Associate Professor**

**Dr. J. Mamazza - Assistant Professor**

**Dr. R.A. Mustard - Assistant Professor**

**Dr. C.M. Schlachta - Assistant Professor (Division Head)**

## **PUBLICATIONS**

**Ahmed NA, Jones D:** Video-assisted thoracic surgery: state of the art in trauma care. *Injury*: April 2004; 35/5: pp 479-489.

**Bendavid Y, Klein L, Burpee S, Moloo H, Schlachta CM, Mamazza J:** Laparoscopic nephrectomy for autosomal dominant polycystic kidney disease. *Surgical Endoscopy*: March 2004: Online.

**Bohnen JMA:** Why do surgeons not comply with “best practice?” (Editorial). *Canadian Journal of Surgery*: August 2003; 46: pp 251-252.

**Bohnen JMA, Lingard L:** Error and surgery: Can we do better? (Editorial). *Canadian Journal of Surgery*: October 2003; 46: pp 327-329.

**Burnstein MJ, Riddell RH:** Solitary Rectal Ulcer Syndrome. In: *Encyclopedia of Gastroenterology* (Leonard R. Johnson, ed). Elsevier Inc, San Diego: 2004: pp 421-426.

**Mamazza J, Poulin EC, Schlachta CM, Seshadri PA, Cadeddu MO:** Laparoscopic choledochenterostomies. In: *Laparoscopic Surgery of the Abdomen* (MacFadyen B, Arregui M, Eubanks S, Olsen D, Peters J, Soper N, Swanstrom L, Wexner S, eds). Springer-Verlag, New York: 2003: pp 203-12.

**Mamazza J, Poulin EC, Schlachta CM, Seshadri PA, Cadeddu MO:** Laparoscopic Choledochenterostomies. In: *Laparoscopic Surgery of the Abdomen* (Swanstrom, LL, eds). Springer, New York: 2004: pp 203-209.

**McLeod R, Bohnen JMA:** Commentary on “Risk Factors for Retained Instruments and Sponges after Surgery” *NEJM* 2003. *Canadian Journal of Surgery*: February 2004; 47 (1): pp 57-59.

**Moloo H, Mamazza J, Poulin EC, Burpee SE, Bendavid Y, Klein L, Gregoire R, Schlachta CM:** Laparoscopic resections for colorectal cancer: Does conversion affect survival? *Surgical Endoscopy*: April 2004; 18(5): pp 732-5.

**Poulin EC, Schlachta CM, Burpee SE, Pace KT, Mamazza J:** Laparoscopic Adrenalectomy: Pathologic Features Determine Outcome. *Canadian Journal of Surgery*: October 2003; 46 (5): pp 340-4.

**Poulin EC, Schlachta CM, Mamazza J:** Laparoscopic Splenectomy. In: *Operative Techniques in General Surgery* (Soper NJ, van Heerden JA, Farley DR, eds): 2004.

**Poulin, EC; Schlacht, CM; Burpee, SE; Mamazza, J; et al:** Laparoscopic adrenalectomy: pathologic features determine outcome. *Canadian Journal of Surgery*: October 2003; 46(5): pp 340-344.

**Schlachta CM:** Editorial: Recognizing evidence for what it is. *Surgical Endoscopy*: March 2004; 18(4): pp 565-6.

**Schlachta CM, Mamazza J, Burpee SE, Poulin EC:** Could laparoscopic colon and rectal surgery become the standard of care? A review and experience with 750 procedures. *Canadian Journal of Surgery*: December 2003; 46 (6): pp 432-40.

**Schlachta CM, Mamazza J, Gregoire R, Burpee SE, Pace KT, Poulin EC:** Predicting conversion in laparoscopic colorectal surgery: Fellowship training may be an advantage. *Surgical Endoscopy*: August 2003: Online.

**Schlachta, CM; Mamazza, J; et al:** Could laparoscopic colon and rectal surgery become the standard of care? A review and experience with 750 procedures. *Canadian Journal of Surgery*: December 2003; 46: pp 432-440.

**Vigod S, Bell CM, Bohnen JMA:** Patient information privacy on hospital elevators - we should do better: observational study. *British Medical Journal*: November 2003; 327: pp 1024-1025.

## **INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

**Ahmed N:** Humber River Regional Hospital, Toronto, Ontario, January 2004. *Trauma in the City - Cardiac and Thoracic Trauma*.

**Ahmed N:** Grand Emergency Medicine Rounds - Credit Valley Hospital, Mississauga, Ontario, March 2004. *Traumatology - The Art and Science: review of interesting cases*.

**Bohnen JMA:** Surgical Oncology Network Symposium, Toronto, Ontario, October 2003. How do you measure the quality of surgical care?

**Bohnen JMA:** Canadian Surgery Forum, Vancouver, British Columbia, September 2003. Intra-Abdominal Infections: A spectrum of variety from community-acquired to critical care.

**Bohnen JMA:** American College of Surgeons postgraduate course on Surgical Infections, Chicago, Illinois, October 2003. Lecture: Antibiotics for Intraabdominal Infections: Penicillins, Cephalosporins, Aminoglycosides.

**Bohnen JMA:** Symposium on Serious Infections, Toronto, Ontario, February 2004. Managing severe abdominal infections.

**Bohnen JMA:** North York General Hospital, Toronto, Ontario, December 2003. Quality improvement.

**Burnstein MJ:** ASCRS Annual Meeting, Dallas, Texas, May 2004. Meet the Professor Breakfast: Anal Fissures: Paste, Botox or LIS.

**Burnstein MJ:** Update on Liver and Inflammatory Bowel Diseases, Cancun, Mexico, April 2004. Role of the Surgeon in the Management of Anal Crohn's Disease.

**Schlachta CM:** 9th World Congress of Endoscopic Surgery, Cancun, Mexico, February 2004. Complications of Paraesophageal Hernias.

**Schlachta CM:** Centre for Minimal Access Surgery (CMAS), Hamilton, Ontario, March 2004. Dealing with the Short Esophagus.

**Schlachta CM:** Centre for Minimal Access Surgery (CMAS), Hamilton, Ontario, March 2004. Different Techniques for Laparoscopic Anti-Reflux Surgery.

**Schlachta CM:** 2004 GI and Motility Update, Toronto, Ontario, April 2004. Future perspectives in laparoscopic antireflux surgery.

**Schlachta CM:** Canadian Surgery Forum, Vancouver, British Columbia, September 2003. How to earn Maintenance of Certification credits without leaving home: The CAGS audit tools project.

**Schlachta CM:** Canadian Surgery Forum, Vancouver, British Columbia, September 2003. Laparoscopic Pearls: From basic physiology to what to do if...

**Schlachta CM:** 9th World Congress of Endoscopic Surgery, Cancun, Mexico, February 2004. Session moderator: Colortectal surgery video session.

**Schlachta CM:** Centre for Minimal Access Surgery (CMAS), Hamilton, Ontario, March 2004. Surgical Treatment of Barrett's Esophagus.

**Schlachta CM:** American College of Surgeons, Chicago, Illinois, October 2003. The technique of laparoscopic mesorectal excision of rectal cancer.

## RESEARCH AND INVESTIGATIONS

### *Senior Investigator's Name Appears in Italics*

A multi-centre, randomised, double-blind, parallel group, placebo controlled trial to evaluate the efficacy and safety of activated recombinant factor VII (rFVIIa/Novo-seven/Niastase) in the treatment of bleeding in severely injured trauma patients. *Mazer D: (principal investigator), Ahmed N, Dr. Baker A, Chen R: Novo-Nordisk: Trial ID: F7Trauma - 2159 (\$1,000 2003).*

A multicentre, double-blind, randomized, comparison study of the efficacy and safety of tigecycline to imipenem/cilastatin to treat complicated intra-abdominal infections in hospitalized subjects. *Bohnen JMA, Mustard R, Eikens-Stafford C: Wyeth Research Division of Wyeth Pharmaceuticals Inc. (\$33,309 2003).*

A multicentre, randomized, double blind, comparative trial of intravenous Merrem vs Primaxin I.V. in the treatment of hospitalized subjects with complicated skin and skin structure infections. *Bohnen JMA, Mahoney J, Eikens-Stafford C: AstraZeneca Pharmaceuticals (\$19,400 2003).*

A Proposal to test a prototype US scanner for high resolution 3-D holographic breast imaging in patients who are undergoing stereotactic breast biopsy procedures. *Dr. J. Koo: MediPattern Corporation, Toronto (\$1,500 2003).*

Clinical Indicator Project, Hospital Report Research Collaborative. *Brown A, Anderson G, Bohnen J, Choudhry N, Gagliardi A, McGillis-Hall L: Ontario Ministry of Health and Long Term Care (\$250,000 2003 - 2005).*

NCIC-CTG MA.17: A phase III randomized double blind study of letrozole versus placebo in women with primary breast cancer completing five or more years of adjuvant tamoxifen. *Haq R, Koo J: NCIC (\$15,000 2003).*

NSABP B-30: A three arm randomized trial to compare adjuvant adriamycin and cyclophosphamide followed by taxotere; adriamycin and taxotere; and adriamycin, taxotere and cyclophosphamide in breast cancer patients with positive axillary lymph nodes. *Dr. R. Haq, Dr. J. Koo: NSABP (\$67,767 2003).*

NSABP B032: A Randomized Phase III Clinical Trial to compare sentinel node resection to conventional axillary dissection in clinically node negative breast cancer patients. *Koo J, Ali J: NSABP* (\$47,116 2003).

NSABP B165: Menstrual cycle and Surgical Treatment of Breast Cancer. *Koo J, Haq R: NSABP* (\$4,780 2003).

NSABP P-2: Study of Tamoxifen and Raloxifene (STAR) for the prevention of breast cancer. *Koo J: NSABP/NCI* (\$48,278 2003).

NSABP P-2: Study of Tamoxifen and Raloxifene for the Prevention of Breast Cancer The STAR Trial. . *Koo J, Mahoney J, Haq R: NSABP and NCI* (\$600,000 1999 - 2004).

Nutrition related factors in breast cancer: A prospective cohort study. *Dr. P. J. Goodwin, Pritchard R, O'Malley F, Fantus G, Trudeau M, Koo J, Ennis M: CBCRI* (\$273,232 2001 - 2003).

Optimizing recovery after laparoscopic colon surgery (ORAL-CS): The effect of intravenous Ketorolac on length of hospital stay. *Schlachta CM, Burpee S, Chan B, Barr A, Mamazza J, Poulin EC: Physicians' Incorporated Foundation* (\$108,000 2002 - 2004).

STAR (Study of Tamoxifen and Raloxifene) in the prevention of breast cancer. *J. Koo, L. Mahoney, General Surgery R. Haq, Oncology: NSABP (National Surgical Adjuvant Breast & Bowel Project) NCI (National Cancer Institute* (\$500,000 1999 - 2004).

Team Talk: Structured Interventions to Promote Patient Safety in the Operating Room. *Lingard L, Baker R, Doran D, Orser B, Bohnen J, Reznick R, Grober E, Espin S: Canadian Institutes of Health Research* (\$124,917 2002 - 2004).

Team Talk: Structured Interventions to Promote Patient Safety in the Operating Room. *L. Lingard, R. Baker, D. Doran, B. Orser, J. Bohnen, R. Reznick, G. Regehr, E. Grober,; The Physician's Services Incorporated Foundation* (\$25,355 2002 - 2003).

The Canadian Advanced Endoscopic Surgery (CAESaR). *Schlachta CM, Mamazza J, Poulin EC: Private Donor* (\$100,000 2003 - 2004).

The Effects of Progressively More Challenging Practice on the Acquisition of Laparoscopic Suturing. *Macrae H, Dubrowski A, Schlachta CM: Physician Services Incorporated* (\$16,000 2003 - 2004).

## HONOURS RECEIVED

**Ahmed N:** A \$10,000 research award from the Research Institute at SMH to support a project entitled: "A comparative analysis of trauma systems: Canadian and Israeli". Dr. Ron Greenberg an Israeli General Surgeon will assist in this project as research fellow beginning in May/04., January 2004.

**Ahmed N:** Dean's education fund - An \$11,000 educational grant to fund the annual advanced trauma operative management course (ATOM) at SMH., December 2003.

**Ahmed N:** Outstanding tutor for Problem Based Learning for 2003-04, May 2004.

**Bohnen JMA:** Outstanding Clinical Teacher, Fitzgerald Academy, May 2004.

**Mustard R:** Tutor Award Undergraduate Teaching, PBL, FitzGerald Academy, December 2003.

## DIVISION OF NEUROSURGERY

**Dr. M.D. Cusimano - Assistant Professor**

**Dr. R.J. Moulton - Associate Professor (Division Head)**

**Dr. P.J. Muller - Professor**

**Dr. R.G. Perrin - Associate Professor**

**Dr. H.S. Smyth - Assistant Professor**

**Dr. W.S. Tucker - Associate Professor**

## PUBLICATIONS

**Jahromi BS, Hill MD, Holmes K, Hutchison S, Tucker WS, Chiu B:** Chlamydia pneumoniae and Atherosclerosis following Carotid Endarterectomy. *The Canadian Journal of Neurological Sciences*: July 2003: 30: pp 333-339.

**Cooke DJ, Cusimano MD, Tator CH, Chipman ML:** Evaluation of the Think First Canada Smart Hockey Brain and Spinal Cord Injury Presentation Video. *Injury Prevention*: December 2003: 9: pp 361-366.

**Cusimano MD, Marchie A,** Bodychecking and Concussions in Ice Hockey: Should Our Youth Pay the Price? *Canadian Medical Association Journal*: July 2003: 169 (2): pp 124-128.

**Cusimano MD, Rothman AI:** The Effect of Incorporating Normative Data into Criterion-Referenced Standard Setting in Medical Education. *Academic Medicine*: November 2003: 78, No. 10: pp S88-90.

**Isaac, D; Cusimano, MD; Mansfield E; Chipman, M; Sherman, A:** Child Safety Education and the World Wide Web: An Evaluation of the Content and Quality of Online Resources. *Injury Prevention*: January 2004: 10: pp 59-61.

**V. Yang, P. Muller, B. Wilson, P. Herman:** Preliminary report on intraoperative detection of glioblastoma multiforme by a multispectral fluorescence guidance system. *Laser Medicine and Surgery*: September 2003: 32: pp 224-232.

**van Furth WR, Laughlin S, Taylor MD, Sahlia B, Mainprize, Henkelman M, Cusimano M, D; Ackerley C, Rutka J:** Imaging of Murine Brain Tumors Using a 1.5 Tesla Clinical MRI System. *Canadian Journal of Neurological Sciences*: October 2003: 30: pp 326-332.

**van Furth Wr, Laughlin S, Taylor MD, Sahlia B, Mainprize T, Henkelman M, Cusimano MD, Ackerley C, Rutka JT:** Imaging of Murine Brain Tumors using a 1.5 Tesla clinical MRI System. *Canadian Journal of Neurological Sciences*: November 2003: 30 (4): pp 326-32.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Cusimano MD:** Canadian Injury Prevention and Safety Promotion Conference, Ottawa, Ontario, November 2003. 1). Building Capacity for Community Action in Injury Prevention: An Overview of the Ontario Neurotrauma Foundation Evaluation Study. 2). Canadian Injury Surveillance Strategy Initiative Translation Group Meeting.

**Cusimano MD:** The Ontario Hospital Association, Toronto, Ontario, June 2004. Challenges--The Acute Care Aspect of Dealing with Acquired Brain Injury.

**Cusimano MD:** American Association of Thoracic Surgery, Toronto, Ontario, Canada, April 2004. Developing the Academic Surgeon--84th Annual Meeting of the American Association of Thoracic Surgery.

**Cusimano MD:** Institute for Work and Health, Toronto, Ontario, December 2003. Evaluation Session for Institute for Work and Health.

**Cusimano MD:** American Association of Thoracic Surgery Annual Meeting, Toronto, Ontario, April 2004. Evolving Trends in Surgical Education.

**Cusimano MD:** Loyalist Newspaper, Belleville, Ontario, February 2004. Interview for Loyalist paper regarding Hockey Injuries.

**Cusimano MD:** CBC Windsor Radio, Windsor, Ontario, July 2003. Radio Interview.

**Cusimano MD:** Parry Sound Radio, Parry Sound, Ontario, July 2003. Radio Interview.

**Cusimano MD:** Sarnia Radio, Sarnia, Ontario, July 2003. Radio Interview.

**Cusimano MD:** CHED Edmonton, Edmonton, Alberta, July 2003. Radio Interview with "Inside Sports" Kelly Campbell. Interviewer Larry Berris.

**Cusimano MD:** British Broadcasting Corp--"BBC", London, England, July 2003. Radio Interview with "Live with Rod Sharp".

**Cusimano MD:** Saskatoon Radio, Saskatoon, Alberta, July 2003. Radio Interview with Alden Dunsker.

**Cusimano MD:** CBC Radio's As it Happens, Toronto, Ontario, July 2003. Radio Interview with Alison Masemann.

**Cusimano MD:** CBC Metro Mornings, Toronto, Ontario, January 2004. Radio Interview with Andy Barry--Concussions in Hockey and Eric Lindros--Live Interview.

**Cusimano MD:** CBC French Network, Montreal, Quebec, July 2003. Radio Interview with Benoit Michaud.

**Cusimano MD:** FAN 590, Toronto, Ontario, July 2003. Radio Interview with Bob McCallum and Doug Smith.

**Cusimano MD:** CBC Yukon, Yukon, NWT, July 2003. Radio Interview with David White.

**Cusimano MD:** CKNW Vancouver, Vancouver, British Columbia, July 2003. Radio Interview with Jennifer Mather.

**Cusimano MD:** CBC Toronto, Toronto, Ontario, July 2003. Radio Interview with Teddy Katz.

**Cusimano MD:** Ottawa Radio CHUM 580 CFRA, Ottawa, Ontario, July 2003. Radio Interview with Tom Woodward, Producer.

**Cusimano MD:** Edmonton Radio, Edmonton, Alberta, August 2003. Radio Interview.

**Cusimano MD:** Maritime Noon CBC Radio 1, All Maritime Provinces, July 2003. Radio Interview with Kostas and Anne.

**Cusimano MD:** University of New Brunswick, Fredericton, New Brunswick, March 2004. Skating into the Future: Hockey in the New Millennium II, 2004.

**Cusimano MD:** EACA & AACA 1st Joint Meeting, Graz, Austria, July 2003. Teaching Video of the Orbito-zygomatic approach.

**Cusimano MD:** FOX 32 Television, Chicago, Illinois. March 2004. Telephone Interview regarding injury prevention and hockey injuries with Dianne Carbornara.

**Cusimano MD:** CBC Alberta, Alberta, July 2003. Television Coverage.

**Cusimano MD:** TQS Quebec Grand Journal, Quebec, July 2003. Television Coverage with Grand Journal, Marie Claude.

**Cusimano MD:** CTV News, Toronto, Ontario, July 2003. Television Coverage with Montica Matys--416-801-4986.

**Cusimano MD:** CBC News, Toronto, Ontario, July 2003. Television Coverage with Peter Armstrong--Ban Body Checking for players under 17.

**Cusimano MD:** CBC Nova Scotia, Nova Scotia, July 2003. Television Coverage--Bodychecking dangerous for kids: doctor.

**Cusimano MD:** Canadian Injury Prevention and Safety Promotion Conference, Ottawa, Ontario, November 2003. Translating Safety Knowledge into Practice: The Value of Cyberspace.

**Cusimano MD:** Canadian Society for International Health, Toronto, Ontario, March 2004. Youth and Health Promotion UKRAINE, Presented YOUTH for Health Phase II, Project--CIDA Funded--Policy Study Tour--April 1, 2004.

**Muller PJ:** 5th Annual Symposium on Oncological Sciences, Roswell Park Cancer Institute, October 2003. PDT in the treatment of malignant brain tumors.

**Perrin RG:** Neurosurgical Society of America Annual Meeting, Santa Fe, New Mexico, June 2004. Corpectomy for Posttraumatic Syringomyelia: Report of Four Cases and Review of the Literature.

**Tucker WS:** Canadian Congress of Neurological Sciences, Calgary, Alberta, June 2004. 1). Chair, Plenary Session III, Risk Reduction in the Clinical Neurosciences. 2). Disclosure of Error.

**Tucker WS:** Medical Education Academy, Teva Neuroscience, Cambridge, Ontario, October 2003. Medical-Legal Issues for Neurologists.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

“A clinical trial for the optimization and evaluation of ala fluorescense detection of malignant supratentorial gliomas”. *Paul Muller (Department of Surgery), Lothar Lilge (Department of Medical Genetics and Microbiology) Brian Wilson (Department of Medical Genetics and Microbiology): Canadian Institutes of Health Research (\$68,563 2003 - 2004).*

“Pre-clinical development, optimization and evaluation of fluorescense-guided resection and acute-and metronomic-photodynamic therapy as therapeutic options in malignant brain tumours. *Brian Wilson (Department of Medical Biophysics), Lothar Lilge (Department of Medical Biophysics) Paul Muller (Department of Surgery): Canadian Institutes of Health Research (\$147,356 2003 - 2004).*

(1) Photodynamic therapy: basic and clinical science studies, (2) Prospective clinical trials in the use of photodynamic therapy (PDT) for the treatment of malignant brain tumors. *Muller P, Hetzel F, Chopp M, Hitchcock M. Patterson M, Singh G, Wilson B: National Institute of Health (\$7,067,876 2004 - 2009).*

Implementation and evaluation of a neurtrauma injury prevention program into Ontario's healthy living curriculum: A controlled trial. *Cusimano MD, Chipman M, Kalnins I, Freedman B: Ontario Neurotrauma Foundation (\$600,000 2003 - 2004).*

Skull Base Surgery and the Internet. *Cusimano, MD, Agur, A: McGraw-Hill Ryerson Teaching Technology Integration Fund (\$1,000 2003 - 2005).*

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

**Cusimano MD:** Certificate of Appreciation –Co-op Student from Peel District School Board , Sadaf Mohammad, January 2004.

**DIVISION OF ORTHOPAEDIC SURGERY****Dr. E.R. Bogoch - Professor****Dr. T.R. Daniels - Assistant Professor****Dr. D.E. Hastings - Professor****Dr. M.D. McKee - Assistant Professor****Dr. E.H. Schemitsch - Professor (Division Head)****Dr. J.P. Waddell - Professor****PUBLICATIONS**

**Balakrishnan A, Schemitsch EH, Pearce D, McKee MD:** Distinguishing transient osteoporosis of the hip from avascular necrosis. *Canadian Journal of Surgery*: July 2003: 46(3): pp 187-192.

**Bhandari M, Audige L, Ellis T, Hanson B, Tornetta P, Schemitsch EH, Swiontkowski MF, Dirschl D, Sanders R, Kreder HJ, Obremsky W, McKee MD:** Operative treatment of extra-articular proximal tibial fractures. *Journal of Orthopaedic Trauma*: July 2003: 17(8): pp 591-595.

**Bhandari M, Devereaux PJ, Swiontkowski MF, Schemitsch EH, Shankardass K, Sprague S, Guyatt GH:** A randomized trial of opinion leader endorsement in a survey of orthopaedic surgeons: Effect on primary response rates. *International Journal of Epidemiology*: August 2003: 32(4): pp 634-6.

**Bhandari M, Devereaux PJ, Swiontkowski MF, Tornetta III P, Obremsky W, Koval KJ, Nork S, Sprague S, Schemitsch EH, Guyatt GH:** Internal fixation compared with arthroplasty for displaced fractures of the femoral neck: A meta-analysis. *Journal of Bone and Joint Surgery (American Volume)*: September 2003: 85(9): pp 1673-1681.

**Bhandari M, Guyatt GH, Khera V, Kulkarni AV, Sprague S, Schemitsch EH:** Operative management of lower extremity fractures in patients with head injuries. *Clinical Orthopaedics and Related Research*: July 2003: 407: pp 187-198.

**Bogoch ER, Meads BM:** Transfer of Either Index Finger Extensor Tendon to the Extensor Pollicis Longus Tendon. *Canadian Journal of Plastic Surgery*: May 2004.

**MD McKee:** Nonunion following intramedullary nailing of the femur with and without reaming. *Canadian Orthopaedic Trauma Society: Protocol Development, Manuscript Preparation, Contributing surgeon: J Bone Joint Surg(A)*: November 2003: 85-A, No11: pp 2093-2096.

**Davis AM, Schemitsch EH, Gollish JD, Saleh KJ, Davey R, Kreder HJ, Mahomed NN, Waddell JP, Szalai JP, Gross AE:** Classifying failed hip arthroplasty: Generalizability of reliability and validity. *Clinical Orthopaedics and Related Research*: October 2003: 415: pp 171-9.

**Koval KJ, Meek R, Schemitsch EH, Liporace F, Strauss E, Zuckerman JD:** Geriatric Trauma: Young Ideas. *Journal of Bone and Joint Surgery (American Volume)*: July 2003: 85A(7): pp 1380-1388.

**McKee MD, DiPasquale DJ, Wild LM, Stephen DJ, Kreder HJ, Schemitsch EH:** The effect of smoking on clinical outcome and complication rates following Ilizarov reconstruction. *Journal of Orthopaedic Trauma*: November 2003: 17(10): pp 663-7.

**McKee MD, Pugh DMW, Richards RR, Pedersen E, Jones C, Schemitsch EH:** Effect of humeral condylar resection on strength and functional outcome after semiconstrained total elbow arthroplasty. *Journal of Bone and Joint Surgery (American Volume)*: July 2003: 85(A): pp 802-807.

**McKee MD, Schemitsch EH, Sala MJ, O'Driscoll SW:** The pathoanatomy of lateral ligamentous disruption in complex elbow instability. *J Shoulder Elbow Surg*: August 2003: 12, No. 4: pp 391-396.

**McKee MD, Wild LM, Schemitsch EH:** Midshaft malunions of the clavicle. *Journal of Bone and Joint Surgery (American Volume)*: July 2003: 85A(5): pp 790-797.

**Mulcahy D, Daniels TR, Lau JTC, Bogoch ER, Boyle E:** Rheumatoid Forefoot Deformity: A comparison study of two functional methods of reconstruction. *Journal of Rheumatology*: July 2003: 30:7: pp 1440-1450.

**Obremsky WT, Bhandari M, Dirschl DR, Schemitsch EH:** Internal fixation versus arthroplasty of comminuted fractures of the distal humerus. *Journal of Orthopaedic Trauma*: July 2003: 17(6): pp 463-465.

**Olson SA, Schemitsch EH:** Open fractures of the tibial shaft: An update. In: *Instructional course lectures (52)*: 2003: pp 623-31.

**Petrisor BA, Bhandari M, Orr RD, Mandel S, Kwok DC, Schemitsch EH:** Improving reliability in the classification of fractures of the acetabulum. *Archives of Orthopaedic Trauma Surgery*: July 2003: 123(5): pp 228-233.

**Schemitsch EH:** Health care system gets wake-up call. *Canadian Orthopaedic Association Bulletin*: October 2003: 61: pp 8.

**Schemitsch EH:** Increased participation essential in improving musculoskeletal health care. *Canadian Orthopaedic Association Bulletin*: December 2003: 63: pp 8.



**Schemitsch EH:** The need for change. Canadian Orthopaedic Association Bulletin: October 2003: 60: pp 8.

**Schemitsch EH, Bhandari M:** Fractures of the Humeral Shaft. In: Skeletal Trauma. 3rd Edition. W.B. Saunders Co. (Browner B, Jupiter J, Levine A, Trafton P., eds). Philadelphia, PA: 2003: pp 1481-1511.

**Schemitsch EH:** Involvement crucial in addressing access to delivery of care crisis. Canadian Orthopaedic Association Bulletin: October 2003: 62: pp 8.

**Barla J, DeGroot R, Huckley R, McCormack R, Leighton R, Feibel R, Schemitsch EH, McKee MD, Stepeh D, Kreder H. Powell J:** Nonunion following intramedullary nailing of the femur with and without reaming. Journal of Bone and Joint Surgery (American): November 2003: 85A (11): pp 2093-2096.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Bogoch ER:** 3rd Annual National Capital Orthopedic Association Spring Update, Montebello, Quebec, May 2004. Management of Osteoporosis for Orthopedic Surgeons.

**Daniels TR:** COA - Instructional course lecture, Winnipeg, Manitoba, October 2003. 1) Arthroscopic debridement and mosaicplasty of talo-osteochondral lesions; 2) Moderator for "Ankle Arthritis".

**Daniels TR:** Canadian Association of Wound Care: 9th Annual Conference, Toronto, Ontario, November 2003. Empowering Patients for Optimal Wound Care: 1) "Pressure off-loading for diabetic foot disease", 2) "Diabetic foot consensus".

**Daniels TR:** SMH Acute Wound Care Preceptorship Program in partnership with 3M and KCI Medical Canada, Toronto, Ontario, September 2003. Management of the patient with Charcot Arthropathy - A surgeon's approach.

**Daniels TR:** Wound healing and skin ulcer prevention program, St. Michael's Hospital, Toronto, Ontario, September 2003. Managing complex wounds in an acute care setting: 1) "When the shoe doesn't fit" - see the high risk foot team; 2) Panel and Case studies presentation.

**Daniels TR:** Workplace and Safety Insurance Appeals Tribunal (WSIAT), Toronto, Ontario, June 2004. Plantar fasciitis.

**McKee MD:** 26th Ontario Orthopaedic Association Annual Meeting, Toronto, Ontario, November 2003. 1) Long-term sequelae of paediatric elbow trauma 2) Reducing morbidity in the care of upper extremity nonunion.

**McKee MD:** Orthopaedic Trauma Association 19th Annual Meeting, Salt Lake City, Utah, October 2003. 1) Tibial plateau fractures; mini-symposium 2) Distal humeral fracture fixation lab. 2) Bone substitutes: clinical evidence for their use. 3). Humeral shaft fractures. 4). Upper extremity case presentations.

**McKee MD:** Canadian Orthopaedic Association Annual Meeting, Winnipeg, Manitoba, October 2003. 1. Clavicle fractures: the case for ORIF 2. Instructional Course lecture: Bone substitutes in trauma 3. Instructional Course lecture: Shoulder instability.

**McKee MD:** Temple University Orthopaedic Grand Rounds, Philadelphia, Pennsylvania, November 2003. Osteoinductive bone substitutes.

**McKee MD:** 41st Annual Assembly - Ontario College of Family Physicians, Toronto, Ontario, November 2003. Rotator cuff disorders.

**McKee MD:** 33rd Annual Hennepin Orthopaedic Trauma Seminar, Minneapolis, Minnesota, November 2003. 1). The Robert L. Merkow MD Memorial Lecture: Open reduction versus external fixation for fractures of the distal radius. 2). The terrible triad of the elbow

**McKee MD:** 26th Ontario Orthopaedic Association Annual Meeting, Toronto, Ontario, November 2003. The Sandy Kirkley Memorial Lecture.

**McKee MD:** 13th Annual Baltimore Limb Deformity Course, Baltimore, October 2003. Use of OP-1 for fractures and nonunions.

**Schemitsch EH:** Visiting Professor, Division of Orthopaedic Surgery, University of Ottawa., Ottawa, Ontario, May 2004. 1. Current concepts in the treatment of open fractures. 2. Current concepts in the treatment of forearm fractures.

**Schemitsch EH:** Manitoba Orthopaedic Symposium., Winnipeg, Manitoba, October 2003. 1. Current concepts in the treatment of open tibia fractures. 2. Nailing vs plating for humeral fractures. 3. Arthroplasty options for AVN.

**Schemitsch EH:** Masters Fracture Forum, Dana Point, California, April 2004. 1. High energy proximal tibial fractures.

**Schemitsch EH:** Contemporary and Future Concepts of Total Hip and Knee Arthroplasty., Whistler, British Columbia, January 2004. 1. Hip resurfacing. 2. Has modularity improved total knee replacement.

**Schemitsch EH:** Collins Day Visiting Professor, Department of Surgery, University of Ottawa., Ottawa, Ontario, May 2004. 1. Lecture: Basic Science Research. It all starts with the model.

**Schemitsch EH:** OTA Basic Science Focus Forum, Salt Lake City, Utah, October 2003. 1. Moderator: Computer assisted surgery. 2. Moderator: Basic Science.

**Schemitsch EH:** Orthopaedic Trauma Association Annual Meeting., Salt Lake City, Utah, October 2003. 1. Moderator: Polytrauma. 2. Moderator: Osteoporosis Symposium.

**Schemitsch EH:** Synthes Locked Plating Symposium., Toronto, Ontario, June 2004. 1. Biomechanics of locked plating.

**Schemitsch EH:** Stryker National Meeting, Toronto, Ontario, January 2004. 1. Bone substitutes.

**Schemitsch EH:** Edinburgh International Trauma Symposium, Edinburgh, Scotland, August 2003. 1. Debridement and irrigation in open fractures. 2. Bone morphogenic proteins in open tibial fractures. 3. Advances in femoral nailing. 4. Reamed or unreamed nailing. Experimental results. 5. Humeral fractures. Nail or plate. (Visiting Professor).

**Schemitsch EH:** Canadian Orthopaedic Association Annual Meeting., Winnipeg, Manitoba, October 2003. 1. Instructional course lecture: Controversies in total joint arthroplasty. 2. Moderator: Speciality Day (Arthroplasty). 3. Speciality day: Total hip arthroplasty - What should I choose - resurfacing. Moderator 2. Instructional Course Lecture - Results and treatment of infection after total hip replacement.

**Schemitsch EH:** 18th Annual Vail Orthopaedic Symposium, Vail, Colorado, January 2004. 1. Keynote address. Both bone forearm fractures. Current concepts. 2. Debate: Paediatric forearm fractures. 3. Fireside chat. 4. Laboratory instructor.

**Schemitsch EH:** Juan de Fuca Meeting., Victoria, British Columbia, May 2004. 1. Management of posterior fracture dislocations of the hip. 2. Intertrochanteric fractures, is the sliding hip screw the gold standard? 3. Subtrochanteric fractures. IM fixation.

**Schemitsch EH:** Edinburgh Orthopaedic Instructional Course., Edinburgh, Scotland, August 2003. 1. Treatment of humeral fractures. (Visiting Professor).

**Schemitsch EH:** 71st Annual Meeting AAOS, San Francisco, California, February 2004. Limited exposure fracture plating techniques - The current topic of greatest interest in Orthopaedic Trauma.

**Waddell JP:** Juan De Fuca Meeting, Victoria, British Columbia, May 2004. (1) Hip Arthroplasty in the Treatment of Complications of Acetabular Fractures (2) ORIF Femoral Neck Fractures (3 Screws Vs. DHS)(3) Hip Arthroplasty in the Treatment of Complication of Proximal Femur Fractures.

**Waddell JP:** Canadian Orthopaedic Association, Winnipeg, Manitoba, October 2003. (1) Moderator: Session 4 - Adult Reconstruction - Knee; (2) Co-Moderator Foot and Ankle Papers; (3) Total Hip Arthroplasty - What Should I Choose - Ceramic.

**Waddell JP:** 2nd SICOT/SIROT Annual International Conference, Cairo, Egypt, September 2003. (1) Open fractures of the tibia, (2) Management of displaced femoral neck fractures, (3) Management of femoral neck non-unions.

**Waddell JP:** SAOA/ECSAOA/AAOS/Orthopaedic Overseas, Kampala, Uganda, November 2003. (1) Post-traumatic osteomyelitis, (2) Basic concepts of open fracture management, (3) Non-operative management of upper extremity fractures in the adult, (4) non-operative management of lower extremity fractures in the adult, (5) management of the polytrauma patient, (6) Use of Resuscitation.

**Waddell JP:** Current Concepts in Arthroplasty, Trauma and Sports Injuries, Brisbane, Australia, July 2003. (1) Recent advances in THA, Failures & the Future, (2) Is there a place for mobile bearing TKA, (3) Where do we stand on navigation and minimally invasive surgery - my opinion, (4) Management of femoral neck non-union, (5) Controversies and current management in the treatment of open fractures.

**Waddell JP:** International Congress of the Hip Joint, Tehran, Iran, October 2003. (1) Session Chair (2) Long stem revision of femoral component, (3) Experience with acetabular ring, (4) Allograft in acetabular revision (5) THA in DDH patients, (6) Cementless THR: Different designs, (7) Panel: THR Replacement.

**Waddell JP:** SICOT Moroccan Day, Casablanca, Morocco, June 2004. (1) The Management of Displaced Femoral Neck Fractures (2) Indications and Planning for Primary Total Knee Arthroplasty (3) Revision Total Hip Replacement.

**Waddell JP:** Central European Orthopaedic Congress, Prague, Czech Republic, June 2004. (1) The Role of Total Hip Replacement in Intertrochanteric Fractures of the Femur (2) Subtrochanteric Hip Fractures. 2). Arthroplasty for Femoral Neck Fractures. 3). Chairman: Session B: Proximal Femur Fractures.

**Waddell JP:** American Academy of Orthopaedic Surgeons, San Francisco, California, March 2004. 1). Conversion of Failed Osteotomy to Total Hip: Special Considerations. 2). The Unstable Intertrochanteric Fracture: Is There a Role for Arthroplasty?

**Waddell JP:** Teach-Travel-Learn - Volunteering with Orthopaedics Overseas, Rosemont, Illinois, April 2004. 1). Demonstration of Principles of Fracture Bracing. 2). Trauma and Fracture Management.

**Waddell JP:** Alpha Group, Mayan Riviera, Mexico, February 2004. Generational Changes in Physicians and Their Impact on Orthopaedic Surgery.

**Waddell JP:** Orthopaedic Trauma Association Resident's Basic Fracture Course, Salt Lake City, Utah, October 2003. Hands-on-Skills Lab: Casting/Functional Bracing Humerus & Tibia / Ankle & Distal Radius Fractures.

**Waddell JP:** Canadian Orthopaedic Association, Calgary, Alberta, June 2004. Hip Resurfacing - An Implant Whose Time Has Come Again - Concerns. 2). The Introduction of New Technologies: Moderator.

**Waddell JP:** Alpha Group, Mayan Riviera, Mexico, February 2004. Resurfacing Total Hip Arthroplasty.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

A multicenter prospective randomized trial of conservative treatment vs. operative plate fixation for displaced fractures of the clavicular shaft. *McKee MD, Schemitsch EH: Canadian Orthopaedic Trauma Society: Orthopaedic Trauma Association (\$30,000 2001 - 2003).*

A randomized controlled trial of 1st MTP joint arthrodesis compared to 1st MTP joint hemiarthroplasty in severe hallux rigidus. *Lau JTC, Daniels TR, Waddell JP: 1) Canadian Orthopaedic Foundation and 2) Zimmer Research Competition (\$22,350 2003 - 2004).*

An in-vivo evaluation of graft materials using a canine metaphyseal defect model. *Schemitsch EH: Stryker Howmedica Osteonics (\$199,000 2001 - 2003).*

Clinically important venous thromboembolism following lower extremity fractures: Epidemiology and prevention. *Selby R, Geerts W, Kreder H, Oh P, Szalai S, Hamilton P, Crowther M, Schemitsch EH, McKee MD: Canadian Institutes of Health Research/Industry Pharmacia (\$66,679 2001 - 2004).*

Identification of fragility patients in two Fracture Clinics of St. Michael's Hospital. *Bogoch ER, Josse R, Murray T: Merck Frosst Canada Inc (\$80,000 2004 - 2006).*

Identification of fragility fracture patients in two Fracture Clinics of St. Michael's Hospital. *Bogoch ER, Josse R, Murray T: Merck Frosst Canada Inc (\$50,000 2002 - 2003).*

Integrated Post Fracture care for Osteoporosis in Ontario: A Demonstration Project. *Jaglal S, Bogoch ER, Brooks D, Carroll J, Jaakkimainen L, Kradder H, Zwarenstein M.: Primary Health Care Transition Fund (\$700,000 2004 - 2006).*

Martin Family Centre for Arthritis Care Research. *Bogoch ER, Shupak R, Johnstone B: Martin Family (\$500,000 2000 - 2005).*

Ontario Orthopaedic Association, Prevention of Osteoporotic Fragility Fractures. *Bogoch ER: Procter & Gamble Pharmaceuticals (\$165,000 2001 - 2003).*

Ontario Orthopaedic Association, Prevention of Osteoporotic Fragility Fractures. *Bogoch ER: Procter & Gamble Pharmaceuticals (\$62,000 2004).*

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

Predictor of disability outcomes following revision total knee arthroplasty. *Aileen M. Davis, PhD & Dr. Nizar N. Mahomed, Gross AE, Szalai J, Schemitsch EH, Kreder HJ, MacDonald SJ, Gignac MAM, Garbuz D, Sekundiak T, Bogoch ER, Davey JR: Canadian Institute for Health Research (CIHR) (\$68,365 2001 - 2004).*

Predictors of outcome following revision total hip arthroplasty. *Davis A, Gross AE, Davey JR, Mahomed N, Szalai J, Schemitsch EH, Badley EM, Kreder HJ, Saleh KJ, Hutchison C: Arthritis Society (\$78,024 2001 - 2003).*

Prospective randomized trial of indomethacin versus control in prevention of functionally disabling ectopic bone formation following musculoskeletal injury in association with traumatic brain injury. *K.Lundon, MD McKee, EH Schemitsch, A Baker: PSI Foundation (\$87,000 2001 - 2003).*

Prospective randomized clinical study to evaluate the effects of less invasive stabilization plating techniques in distal femoral fractures. *Leighton R, O'Brien P, Buckley R, McKee MD, Schemitsch EH, Stephen DJ, Sanders D, McCormack D: AO Foundation and Synthes Canada (\$294,400 2002 - 2004).*

Randomized trial of reamed versus non reamed nails in tibial fractures. *Guyatt G, Bhandari M, Walter S, Leighton R, Kreder H, Schemitsch EH, O'Brien B: Canadian Institutes of Health Research (\$710,000 2001 - 2004).*

Study of prospectively evaluate reamed intramedullary nails in tibial fractures. A multi-centre randomized trial. *Swiontkowski M, Guyatt G, Bhandari M, Tornetta P, Schemitsch EH and the Sprint Study Group: NIH (\$1,500,000 2002 - 2005).*

The effect of low pressure lavage with various irrigating solutions on contaminated tibiae. *Schemitsch EH, Bhandari M: University of Toronto Research Committee (\$10,000 2002 - 2003).*

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).*

Wound healing outcomes for 31 patients with diabetic foot wounds: Using negative pressure therapy. *Teague L, Newbatt E, Zchape D, Hoeflok J, Rankine A, Daniels TR, Musgrave M, Mahoney J: Canadian Association of Wound Care (\$250 2003).*

## HONOURS RECEIVED

**Schemitsch EH:** Bovill Award Best Paper Orthopaedic Trauma Association Annual Meeting. (McKee MD, Pederson EM, Wild LM, Schemitsch EH, Kreder HJ, Stephen DJ), March 2004.

**Schemitsch EH:** Orthopaedic Trauma Association Annual Meeting Highlight Paper., October 2003.

**Waddell JP:** One Year Canadian Orthopaedic Foundation Research Grant for "A randomized controlled trial of 1st MTP joint hemiarthroplasty in severe hallux rigidus, December 2003.



## **DIVISION OF PLASTIC SURGERY**

**Dr. L.G. Douglas - Assistant Professor**

**Dr. J.L. Mahoney - Associate Professor (Division Head)**

## **PUBLICATIONS**

**Mahoney JL, Ward J:** Surgical Debridement. In: Surgery in Wounds (Luc Teat, Ulrich E. Ziegler, Paul E. Banwell, eds). Springer-Verlag, Berlin 2004: pp 67-71. (Book Chapter).

**Sibbald RG, Mahoney JL:** Aconsensus Report on the Use of Vacuum-Assisted Closure in Chronic, Difficult-to-Heal Wounds. Ostomy Wound Management: November 2003: 49(11): pp 52-66.

**Teague LM, Mahoney JL:** Cost-effective Wound Care: How the Advanced Practice Nursing Rose Can Positively Affect Outcomes in an Acute-Care Setting. Wound Care 1004: 2(1): pp 32-33.

**Mahoney JL, Wong W, Cross K:** Avulsion of flexor digitorum tendon secondary to enchondroma of the distal phalanx. The Canadian Journal of Plastic Surgery 2004: 12:2: pp 67-68.

**Wu L, Shenker R, O'Blenes C, Mahoney JL:** Endometriosis in the canal of nuck: Atypical manifestations in an unusual location. The Canadian Journal of Plastic Surgery 2004: 12:2: pp 73-75.

## **INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

**Mahoney JL:** Montreal Plastic Surgical Group, Montreal, Quebec, March 16, 2004 – Mar 17, 2004. Acute Wounds and VAC Therapy.

**Mahoney JL:** Odstock Centre for Burns, Plastic and Maxillofacial Surgery Auspices of The Royal College of Surgeons of England, Salisbury, United Kingdom, July 2003. Advances in Wound Care: Topical Negative Pressure Therapy.

## **RESEARCH AND INVESTIGATIONS**

*Senior Investigator's Name Appears in Italics*

A Randomized Controlled Multicentre trial of Vacuum Assisted Therapy in the Treatment of Binded Evaluation of Open Abdominal Wounds. *Mahoney JL:* KCI USA (\$10,000 2003).

A Randomized Controlled Multicentre trial of Vacuum Assisted Therapy in the Treatment of Binded Evaluation of Open Chest Wounds. *Mahoney JL:* KCI USA (\$10,000 2003).

## **DIVISION OF UROLOGY**

**Dr. R.J.D. Honey - Associate Professor (Division Head)**

**Dr. A.G. Keresteci - Associate Professor**

**Dr. KT Pace - Assistant Professor**

**Dr. R.J. Stewart - Assistant Professor**

## **PUBLICATIONS**

**Bilgasesm S, Pace KT, Dyer S, Honey RJ:** Removal of Asymptomatic Ipsilateral Renal Stones Following Rigid Ureteroscopy for Ureteral Stones. *Journal of Endourology*: August 2003; 17, #6: pp 397-400.

**Schlachta CM, Mamazza J, Gregoire R, Burpee SE, Pace KT, Poulin EC:** Predicting conversion in laparoscopic colorectal surgery. *Surgical Endoscopy*: November 2003; 17(8): pp 1288-91.

**Pouli EC, Schlachta CM, Burpee SE, Pace KT, Mamazza J:** Laparoscopic adrenalectomy: pathologic features determine outcome. *Canadian Journal of Surgery*: October 2003; 46(5): pp 340-4.

**Pace KT:** Laparoscopic donor nephrectomy: introduction and assessment at a Canadian transplant centre. *Canadian Transplant Quarterly*: October 2003; 2: pp 3-4.

**Pace KT, Weir MJ, Harju M, Tariq N, Honey RJ:** Individual patient variation and inter-rater reliability of lower calyceal infundibular width on routine intravenous pyelography. *BJU International*: October 2003; 92(6): pp 607-609.

**Pace KT, Dyer S, Harju M, Honey RJ:** A randomized, double-blinded comparison of side and end-hole versus end-hole ureteral catheters. *Journal of Endourology*: October 2003; 17(9): pp 763-6.

**Kader KA, Finelli A, Honey RJ:** Nephroureterostomy-drained percutaneous nephrolithotomy: modification combining safety with decreased morbidity. *Journal of Endourology*: February 2004; 18 #1: pp 29-32.

**McLorie GA, Pugach J, Pode D, Denstedt J, Bagli D, Meretyk S, Honey RJ, Merguerian P, Shaprio A, Houry A, Landau E:** Safety and efficacy of extracorporeal shock wave lithotripsy in infants. *Canadian Journal of Urology*: October 2003; 10 #6: pp 2051-2055.

**Bilgasesm S, Pace KT, Dyer S, Honey RJ:** Erect and supine radiographs to assess the effectiveness of SWL for stones in a calyceal diverticulum or dilated calyx. *Journal of Endourology*: October 2003; 17(1): pp 7-9.

**Bilgasesm S, Pace KT, Dyer S, Honey RJ:** Removal of asymptomatic ipsilateral renal stones following rigid ureteroscopy for ureteral stones. *Journal of Endourology*: August 2003; 17(6): pp 397-400.

## **INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

**Pace KT:** Canadian Urological Association, Whistler, British Columbia, June 2004. Laparoscopy: Minimally-invasive for patients, maximally expensive for providers?

**Pace KT:** Fujisawa Canadian Transplant Forum, Montreal, Quebec, November 2003. Laparoscopic donor nephrectomy: the new standard of care.

**Pace KT:** University of Western Ontario CSTAR Course in Urologic Laparoscopy, London, Ontario, February 2004. Laparoscopic equipment: what you need to buy.

**Pace KT:** University of Western Ontario CSTAR Course in Urologic Laparoscopy, London, Ontario, February 2004. Laparoscopic instrumentation: tools of the trade.

**Pace KT:** University of Western Ontario CSTAR Course in Urologic Laparoscopy, London, Ontario, February 2004. Laparoscopic partial nephrectomy: all the same steps.



## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

"Molecular and functional imaging of tumour angiogenesis using contrast-enhanced ultrasound". *RJ Stewart: J. P. Bickell Foundation (\$64,254 2004).*

Development and conduct of randomized trials in endourology and urologic laparoscopy. *Pace KT: Canadian Urological Association Scholarship Fund (\$40,000 2003 - 2004).*

Evaluation and development of a computerized endourology simulator. *Honey J, Pace K: Cook (Canada) Inc. (\$75,000 2001 - 2004).*

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

Laparoscopic versus open donor nephrectomy: A prospective cohort analysis. *R. J. D'A. Honey, K. T. Pace, R. J. Stewart, E.C. Poulin, C.M. Schlacta, and J. Mamazza: Kidney Foundation of Canada (\$104,000 2001 - 2003).*

## HONOURS RECEIVED

**Pace KT:** Canadian Urological Association Scholarship Fund scholarship winner, July 2003.

**Pace KT:** Outstanding Teacher of the Art and Science of Clinical Medicine, May 2004.

**Pace KT:** University of Toronto Dean's Fund New Faculty Award, February 2004.

**Stewart RJ:** Clarice Chalmers Teaching Award St. Michael's Hospital, September 2003.

**Stewart RJ:** Fitzgerald Academy Undergraduate Teaching Award, December 2003.

**DIVISION OF VASCULAR SURGERY**

**Dr. F.M. Ameli - Associate Professor (Division Head)**

**Dr. A.G. Lossing - Associate Professor**



# SUNNYBROOK & WOMEN'S COLLEGE HEALTH SCIENCES CENTRE

*Dr. Robin Richards  
Surgeon-in-Chief*

## *Heads of Division*

Dr. S. Fremes – Cardiac Surgery  
Dr. A. Smith – General Surgery  
Dr. M. Schwartz – Neurosurgery  
Dr. T. Axelrod – Orthopaedic Surgery  
Dr. J. Semple – Plastic Surgery  
Dr. L. Klotz – Urology  
Dr. R. Magissano – Vascular Surgery

Sunnybrook and Women's College Health Sciences Centre continues to operate at three sites with many Department members, particularly in the Divisions of General Surgery, Plastic Surgery, Orthopaedic Surgery and Urology active at more than one site. The Department had an eventful and productive academic year.

## *New Staff*

Dr. Frances Wright joined the Department on July 1, 2003 as a Surgeon – Investigator in the Division of General Surgery. Frances spent her first year concentrating on her studies towards a MEd from UTOISE, preparatory to initiating her practice in surgical oncology. Frances will have a clinical focus in breast cancer and colorectal cancer and a research focus in knowledge transfer. Vasundara Venkateswaran joined the Division of Urology, as a Scientist on September 1, 2003. Vasu was appointed Assistant Professor with a research interest in the area of prostate cancer prevention, working both independently and in collaboration with Dr. Laurence Klotz. Subsequent to her appointment, Vasu was awarded Dean's Funding for a study of prostate carcinogenesis.

## *Appointments and Promotions*

The Department received word during the year that four members would receive promotions as of July 1, 2004. Dr. Robert Cartotto was promoted to Associate Professor for the excellence of his research in the area of burn care. Dr. Joel Finkelstein was promoted to Associate Professor for the excellence of his research and creative professional activity in the field of spinal research. Dr. Sherif Hanna was promoted to Associate Professor for the excellence

of his research and creative professional activity in the field of liver surgery. Dr. George Christakis was promoted to Full Professor, for the excellence of his research and creative professional activity, in the field of valvular cardiac surgery. Each of the above members also demonstrated evidence of effective teaching in their chosen fields. Joel Fish was appointed as a Member of the Institute of Medical Science. Calvin Law was appointed as an Adjunct Scientist of the Institute of Clinical Evaluative Sciences. Dr. Robin Richards was appointed Vice Chair – Clinical of the Department and continued in his role as Chair of the Departmental Promotions Committee.

## *Educational Activity and Awards*

Drs. Peter Chu and Ted Ross received the Undergraduate and Postgraduate Bruce Tovey Teaching Awards respectively, at the Gallie Dinner, bringing great honor to the Hospital. Dr. John Murnaghan served as President of the Association for Surgical Education. Drs. Ahmed Al-Jarri, Andrew Dueck, Chris Gallimore and Steve Singh received A.W. Harrison awards for excellence in teaching, at the Harrison Dinners held in December 2003 and June 2004, to recognize the contributions of the Residents and Fellows to the Department.

The 20<sup>th</sup> Annual Upper Extremity Update, co-chaired by Dr. Richards, was held on April 2, 2004. Drs. Axelrod, Binhammer, Midha, Holtby and Wright gave excellent presentations. Drs. Law, Hanna, Ross, Smith and Tremblay contributed to the 44<sup>th</sup> Annual Update in General Surgery. The 12<sup>th</sup> Pelvic and Acetabular Fracture Management Course, was held in May, under the leadership of Drs. Kreder, Stephen and Tile. Dr. Paul Marks was a traveling fellow of the American Orthopaedic Society for Sports Medicine and sat on its Council. Robert Nam organized the first TSRCC Prostate Cancer Centre Continuing Education meeting.

## *Research Activity and Awards*





Funding in the amount of \$12,648,477 was confirmed for the Advanced Regenerative Tissue Engineering Centre, under the Directorship of Dr. John Semple. Drs. Joel Fish and Raj Midha collaborate on this project which is a co-operative venture supported by Government, Industry and the Institution through the Ontario Research Development Challenge Fund.

Dr. Joel Fish was awarded a PSI Grant for his research study “Assessment of Burn Depth Using Near Infrared Technology”, a collaborative research project with the National Research Council in Winnipeg, Manitoba. Dr. Karen Cross, under the supervision of Joel Fish, received the 2004 Young Investigators’ award for her work “Determination of Burn Depth using Near Infrared Spectroscopy” at the Annual meeting of the Wound Healing Society.

Dr. Julia Haber, a medical student from Queen’s University, supervised by Dr. Rob Cartotto, received the Moyer Award of the American Burn Association for the best paper (“Late Outcomes in Adult Survivors of Toxic Epidermal Necrolysis Following Treatment in a Burn Centre”) presented at the Annual meeting held in Vancouver, British Columbia. This prestigious award had been received only once previously by a Canadian.

Dr. Cory Goldberg, supervised by Jeff Fialkov, won the Basic Science Research Prize at the Annual Meeting of the Canadian Society of Plastic Surgeons, held in Hamilton, Ontario, for his paper “Bone Engineering in a Rabbit Craniotomy Defect Using Biodegradable Scaffold”. Dr. Goldberg was also awarded the Basic Science Prize for this work, at the Annual Research Day for the Division of Plastic Surgery. Dr. Brent Howley, supervised by Drs. Mitch Brown and John Semple, received the Clinical Research Prize for his paper, “Tuberous Breast Deformity: A Reconstructive Strategy”.

Dr. Gideon Cohen received a Grant-in-Aid from the Heart and Stroke Foundation, for his project entitled “Left ventricular mass regression following aortic valve replacement with stentless versus stented valves: Follow-up of a randomized trial” and served on the Hospital’s Research Ethics Board. Dr. Steve Fremes received PSI Funding for a randomized placebo

controlled trial of a renal protective agent, following cardiopulmonary bypass and a project on intraoperative patency assessment of vascular anastomoses. Dr. Timothy Davies, supervised by Dr. Robert Nam, won the University Division of Urology Resident Basic Science Awards for his project “HOGG1 Gene Enhances Screen-Detected Prostate Cancer”. Drs. Ahmed Haddad and Arthur Grabowski, supervised by Laurence Klotz and Robert Nam, respectively, received Honorable mention. Robert Nam’s CUA Young Investigator Award was renewed. Dr. Nam also was awarded NCIC funding in addition to two other research grants.

Dr. Fred Brenneman received an award from the Department of National Defense Research Program, in Quality of Life for his project “Causes of death in active duty Canadian Forces personnel”. Dr. Cari Whyne was awarded a Canadian Breast Cancer Research Initiative Grant for her project “A prospective study of biomechanically-based guidelines in metastatic breast fracture risk prediction”. Vasundara Venkateswaran received Dean’s Funding for her project of inhibition of prostate carcinogenesis. Dr. Laurence Klotz continued his funded research in the field of prostate cancer, continued to edit the Canadian Journal of Urology and led National and International genitourinary oncology research organizations. Dr. Klotz gave the American Urological Association address to the plenary session of the annual meeting of the European Urological Association in Vienna, Austria, the first non-American to be so honored.

Drs. Lavina Lickley and Claire Holloway continued their nationally-funded breast cancer research and Frances Wright received a Canadian Breast Cancer Foundation Grant for her project, “Is Clinical Breast Examination, Mammography or Magnetic Resonance Imaging the Best Method for Assessing Residual Disease after Neo-Adjuvant Therapy in Women with Locally Advanced Breast Cancer?”. Drs. Andy Smith and Calvin Law continued their work funded by the Ontario Cancer Research Network and the Change Foundation, to improve the colon cancer staging through a multimodal knowledge translation program. Dr. Calvin Law continued his population-based study of the outcomes of transanal resection for rectal cancer.

#### *Other Awards and Activity*

The Foundation and Hospital Boards confirmed funding for a Marvin Tile Chair in Orthopaedic Surgery, to support orthopaedic surgery in recognition of Dr. Tile's leadership at Sunnybrook and Women's College Health Sciences Centre and the Faculty of Medicine, University of Toronto, and his invaluable contributions to orthopaedic surgery and health care, over the past 40 years.

Dr. David Stephen continued in his role as Chief Examiner of Orthopaedic Surgery for the Royal College of Physicians and Surgeons of Canada. Dr. Sender Herschorn was elected as a delegate of the Canadian Urology Association, to the Societe Internationale d'Urologie. Dr. Robin Richards was elected Secretary-Treasurer of the American Shoulder and Elbow Surgeon, for a three-year term. Marvin Tile awards for outstanding contributions to the Department were awarded to Dr. Sherif Hanna, for his outstanding leadership of the Division of General Surgery over eleven years and to Dr. John Semple, for his vision and leadership in developing the ARTEC Initiative, described above.

Drs. Massey Beveridge and Peter Chu remained active in International Surgery. Dr. Beveridge organized a highly successful Bethune Round Table on International Surgery in May. This meeting was held in conjunction with the 2<sup>nd</sup> Annual Global Health Research Conference and Gallie Day. A Dr. Norman Bethune Surgical Research Fund is being developed to provide grants for surgeons in developing countries to conduct urgent needs-driven research projects. The British Medical Journal published an article on the Ptolemy project, providing a new model for electronic access to medical literature for doctors in developing countries, with Dr. Beveridge as lead author.

The Ross Tilley Burn Centre celebrated its 20<sup>th</sup> anniversary on April 23, 2004. A video telemedicine consultative service with the burn surgeons, was developed in collaboration with the NORTH Network and CritiCall with the support of Hydro One. Staff from the Burn Centre made ten presentations at the Annual Meeting of the American Burn Association and hosted a meeting of the Eastern Great Lakes Burn Study Group. Dr. Joel Fish gave the Fraser Gurd Lecture, at the Trauma Association of Canada in April.

Drs. Fred Brenneman, John Cameron and Sherif Hanna, continued their leadership in the Institution of Trauma, Musculoskeletal and Surgical Oncology Programs, respectively. Dr. Richard Holtby served as President of the Medical-Dental-Midwifery Staff Association. Drs. Hamilton-Hall, Robin Richards and Marvin Tile served on the Board of the Sunnybrook and Women's Foundation, as plans were formulated for a major campaign to be announced in the fall of

2004.

The 3<sup>rd</sup> Edition of Dr. Tile's book on Fractures of the Pelvis and Acetabulum was published and he was made an Honorary Member of the Hellenic and Israel Orthopaedic Associations. Dr. Bernard Goldman co-authored a book for patients having heart bypass surgery, providing information from diagnosis to recovery. Dr. Robert Nam co-wrote a similar book on prostate surgery. Dr. Gideon Cohen began performing a modified Maze procedure, a minimally invasive procedure to treat atrial fibrillation.

Dr. Joseph Schatzker retired from many years of outstanding surgical practice as of June 30, 2004. Dr. Schatzker will remain on staff in a non-surgical capacity. Dr. Marc Pelletier accepted a position at Stanford University as of January 1, 2004. Dr. Raj Midha was appointed Divisional Chairman, Neurosurgery, University of Calgary and Division Head, Neurosurgery at the Foothills Medical Centre in Calgary, Alberta. Dr. Geoff Fernie was appointed Vice President of Research at the Toronto Rehabilitation Institute. The Department congratulates each of these individuals and thanks them for their many contributions to the academic life of the Department.

### *Conclusion*

As the academic year ended, the Department looked forward to the challenges lying ahead with newly elected Federal and Provincial Governments. Resources, recruitment and retention will require particular attention in order to maintain the fertile academic environment, that has developed at Sunnybrook and Women's College Health Sciences Centre. The Department and the Institution look forward to capital redevelopment and the continued opportunity to play a major role in providing surgical services to patients in the Province, with clinical problems, relating to trauma, burns, cancer, cardiac, musculoskeletal and neural disorders and to the academic life of our University.

## DIVISION OF CARDIAC SURGERY

**Dr. G.T. Christakis - Associate Professor**

**Dr. G. Cohen - Assistant Professor**

**Dr. B.S. Goldman - Professor**

**Dr. S.E. Fremes – Professor (Division Head)**

**Dr. M.P. Pelletier - Assistant Professor**

## PUBLICATIONS

**Cohen G:** Is Patient Outcome Adversely Affected by Early versus Late Prosthesis-Patient Mismatch? *Journal of Cardiac Surgery*: March 2004; 19-2: pp 91-186.

**Cohen G:** Stented versus Stentless Valves: Reply to Author. *Annals of Thoracic Surgery*: August 2003; 76: pp 657-58.

**Guru V, Fremes SE:** Postoperative bleeding and coagulopathies. In: *Cardiac Surgery Secrets*, 2nd Edition (Soltoski, PR et al (ed), eds). Hanley and Belfus, Philadelphia: 2004: pp 233-43.

**Guru V, Fremes SE, Tu JV:** Time-related mortality for women after coronary artery bypass graft surgery: population-based study. *Journal of Thoracic and Cardiovascular Surgery*: April 2004; 127(4): pp 1158-65.

**Mallidi HR, Pelletier MP, Lamb J, Desai N, Sever J, Christakis GT, Cohen G, Goldman BS, Fremes SE:** Late outcomes in patients with uncorrected mild to moderate mitral regurgitation at the time of isolated coronary artery bypass grafting. *Journal of Thoracic and Cardiovascular Surgery*: March 2004; 127: pp 636-644.

**Shafie Fazel, MD, Marc P. Pelletier, MD, Bernard S. Goldman, MD:** Substrate enhancement in cardioplegia. In: *Myocardial Protection* (Tomas A. Salerno, MD, and Marco Ricci, MD, eds). Blackwell Publishing, New York: 2004: pp 25.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Christakis GT:** The New Leaders of Sunnybrook and Women's., Toronto, Ontario, October 2003. Aortic Valve Surgery and the Controversy Over Size.

**Fremes SE:** Quebec, August 2003. Cardiac Team Meeting.

**Fremes SE:** Xpertize, Whistler, British Columbia, December 2003. Multicentre Radial Artery Patency Study.

**Fremes SE:** Trillium Health Centre, Mississauga, Ontario, November 2003. OPCAB Tracking Initiative.

**Cohen G:** 40th Annual Meeting of the Society of Thoracic Surgeons, San Antonio, Texas, January 2004. Long-term results of aortic valve replacement with the St. Jude Toronto Stentless Porcine Valve.

**Cohen G:** The American Association of Thoracic Surgery, Toronto, Ontario, May 2004. Recurrent Mitral Regurgitation after Annuloplasty for Functional Ischemic Mitral Regurgitation.

**Goldman BS:** Shaare Zedek Medical Center, Jerusalem, December 2003. "Changing Pattern of Coronary Bypass Surgery: Safety of Surgery in the Elderly" plus "Current Results of Toronto Stentless Valves".

**Goldman BS:** Ben-Gurion University of the Negev, Beer-Sheva, Israel, December 2003. "Changing Pattern of Coronary Bypass Surgery: Safety of Surgery in the Elderly".

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

A multicenter, randomized, double-blind, placebo-controlled, parallel study of E5564, a lipid A antagonist in patients undergoing coronary artery bypass grafting and/or valve surgery with cardiopulmonary bypass. *Freme SE, Nimesh D: Quintiles Canada Inc.* (\$100,000 2003 - 2004).

A Phase III Randomized Parallel, Double-Blind, Multi-Centre, Placebo-Controlled Study of the Effects of Pexelizumab on All-Cause Mortality and Myocardial Infarction in Patients Undergoing Coronary Artery Bypass Graft (CABG) Surgery With Cardiopulmonary Bypass. *Freme, SE., Multi-Centre Collaboration: Proctor & Gamble (Quintiles)* (\$170,000 2002 - 2003).

A Randomized Placebo Controlled Trial of Intravenous N-Acetylcysteine (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).
- Imaging Research Centre For Cardiac Intervention -- IRCCI. *John Rowlands*, Keep D, Burns P, Chauhan V, Cohen E, Fort S, Foster S, Fremes SE, Stewart D, Wilson B, Wright G: *Canada Foundation for Innovation* (\$15,000,000 2002 - 2005).
- Improving Cardiac Function and Exercise Tolerance in Patients Undergoing Coronary Artery Bypass Surgery Who Receive a Nutritional Supplement: MyoVive. *Freme SE*, Christakis GT, Goldman BS, Pelletier MP: *Numico Inc, The Netherlands* (\$100,000 2002 - 2003).
- Intraoperative Patency Assessment of Vascular Anastomoses. *Pelletier MP*, Desai ND, Fremes SE; Cohen GN; Christakis GT; Goldman BS; Pelletier MP: *Physician Services Incorporated (PSI)* (\$158,000 2003 - 2004).
- 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).
- St. Jude Root Study. *Fremes SE*: *St. Jude Root* (\$158,000 2003 - 2004).
- Stem Cell Chemotaxis in Acute Myocardial Infarction. *Pelletier M*: *Schulich Heart Program, Tanna Schulich Scholarship* (\$90,000 2001 - 2004).
- Women's recovery from sternotomy (WREST) study. *King KM*, Wrest Study Co-Investigators: *University of Calgary* (\$394,726 2003 - 2006).

## **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 – Lecturer**

## **PUBLICATIONS**

**Fitzgerald TL, Smith AJ, Ryan M, Atri M, Law CHL, Hanna S:** Surgical Treatment of Incidentally Identified Pancreatic Masses. *Canadian Journal of Surgery*: December 2003: 46: pp 413-418.

**Fowler R, Rizoli S, Levin P, Smith T:** Blood conservation for critically ill patients. *Critical Care Clinics*: April 2004: 20(2): pp 313-324.

**Law CH, Al Zahrani M, Hanna SS, Smith AJ:** The Impact of Lymph Node Retrieval on the Prognosis of Stage II Colon Cancer. *Annals of Surgical Oncology*: September 2003: 84: pp 120-126.

**Law CHL, Wei AC, Hanna SS, Al Zahrani M, Taylor BR, Greig PD, Langer B, Gallinger S:** Pancreatic Resection for Metastatic Renal Cell Carcinoma: Presentation, Treatment and Outcome. *Annals of Surgical Oncology*: October 2003: 10(8): pp 922-6.

**Law CHL, Wright FC, Rapanos T, Al Zahrani M, Hanna SS, Khalifa M, Smith AJ:** Impact of Lymph Node Retrieval and Pathological Ultra-staging on the Prognosis of Stage II Colon Cancer. *Journal of Surgical Oncology*: November 2003: 84(3): pp 120-6.

**Nicholas JM, Cornelius MW, Tchorz KM, Tremblay LN, Spiegelman ER, Easley KA, Small W, Feliciano DV, Powell MA, Poklepovic J:** A two institution experience with 226 endoscopically placed jejunal feeding tubes in critically ill surgical patients. *American Journal of Surgery*: December 2003: 186: pp 583-590.

**Nicholas JM, Rix EP, Easley KA, Feliciano DV, Cava RA, Ingram WL, Parry NG, Rozycki GS, Tremblay LN:** Changing patterns in the management of penetrating abdominal trauma: the more things change, the more they stay the same. *Journal of Trauma*: December 2003: 55: pp 1095-1110.

**Rozycki GS, Tremblay LN, Feliciano DV, McClelland WB:** Blunt vascular trauma in the extremity: diagnosis, management, and outcome. *Journal of Trauma*: November 2003: 55(5): pp 814-824.

**Smith AJ:** Screening for Colorectal Cancer. *The Canadian Journal of CME*: December 2003: 10: pp 90-92.

**Smith AJ, Law CHL, Khalifa M, Hsieh ETK, Hanna SS, Wright FC, Poldre P:** Multimodal CME For Surgeons and Pathologists Improves Colon Cancer Staging. *Journal of Cancer Education*: July 2003: 18(2): pp 81-6.

**Tremblay LN, Feliciano DV, Rozycki GS:** Are resuscitation and operation justified in injured patients with extreme base deficits (less than -20)? *American Journal of Surgery*: December 2003: 186: pp 597-600.

**Warner E, Trudeau M, Holloway C:** Sensitivity of BRCA - 1 - related breast cancer to neoadjuvant chemotherapy: practical implications. *Breast Journal*: November 2003: 9(6): pp 507-8.

**Wright FC, Walker J, Law CHL, McCready D:** Outcomes after Localized Axillary Nodal Recurrence in Breast Cancer. *Annals of Surgical Oncology*: November 2003: 84(3): pp 1054-8.

**Wright F, Law CH, Last L, Arnaout A, Khalifa M, Klar N, Gallinger S, Smith AJ:** Lymph node retrieval and assessment in Stage II colorectal cancer in Ontario. *Annals of Surgical Oncology*: December 2003: 10: pp 903-909.

**Wright FC, Law CH, Last L, Ritacco R, Smith AJ:** Barriers to optimal assessment of lymph nodes in colorectal cancer specimens. *American Journal of Clinical Pathology*: May 2004: 121: pp 663-670.

**Wright FC, Law CHL, Last L, Khalifa M, Arnaout A, Naseer Z, Klar N, Gallinger S, Smith AJ:** Lymph Node Retrieval and Assessment in Stage II CRC: A Population-based Study. *Annals of Surgical Oncology*: October 2003: 10(8): pp 903-9.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

- Brenneman FD:** McGill FAST course, Montreal, Quebec, November 2003. 1. Introduction to FAST. 2. FAST Hands-on Workshop.
- Brenneman FD:** Paramedicine 2003 Conference, Toronto, Ontario, September 2003. Penetrating Trauma.
- Smith A J:** Brantford General Hospital, Brantford, Ontario, May 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Grand River Regional Cancer Centre, Kitchener, Ontario, March 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Grey Bruce Health Services, Owen Sound, Ontario, June 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Guelph General Hospital, Guelph, Ontario, March 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Hamilton Health Sciences, McMaster Site, Hamilton, Ontario, March 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Hanover & District Hospital, Hanover, Ontario, February 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Humber River Regional Hospital (Church Site), Toronto, Ontario, February 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Huntsville District Memorial Hospital, Huntsville, Ontario, March 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Joseph Brant Memorial Hospital, Burlington, Ontario, March 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Kingston General Hospital, Kingston, Ontario, January 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Lakeridge Health, Oshawa, Ontario, April 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** London Health Sciences Centre, London, Ontario, February 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Markham-Stouffville Hospital, Markham, Ontario, March 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Mt. Sinai Hospital, Toronto, Ontario, January 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Niagara Health System, Welland Hospital, Welland, Ontario, February 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** North Bay General Hospital, North Bay, Ontario, January 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** North York General Hospital, Toronto, Ontario, February 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Oakville Trafalgar Memorial Hospital, Halton, Ontario, February 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Ottawa General Hospital, Ottawa, Ontario, January 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Ross Memorial Hospital, Lindsay, Ontario, May 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Sarnia General Hospital, Sarnia, Ontario, March 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Scarborough Centenary Hospital, Scarborough, Ontario, February 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Scarborough General Hospital, Scarborough, Ontario, April 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Soldier's Memorial Hospital, Orillia, Ontario, May 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.

- Smith A J:** South Bruce Grey Health Centre, Walkerton, Ontario, February 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** South Muskoka Memorial, Bracebridge, Ontario, March 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** St. Catherines General Hospital, St. Catherines, Ontario, February 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** St. Joseph's Health Centre, Sudbury, Ontario, March 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** St. Joseph's Health Centre, Toronto, Ontario, March 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** St. Thomas/Elgin General Hospital, St. Thomas, Ontario, February 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Sunnybrook & Women's College Health Sciences Centre, Toronto, Ontario, January 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Thunder Bay Regional Health Sciences Centre, Thunder Bay, Ontario, March 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Toronto East General Hospital, Toronto, Ontario, February 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** Toronto General Hospital, Toronto, Ontario, January 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** West Lincoln Memorial Hospital, Grimsby, Ontario, March 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** William Osler Health Centre, Brampton, Ontario, February 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** York Central Hospital, Richmond Hill, Ontario, April 2004. Colon Cancer in Ontario: The critical interplay of Surgeons and Pathologists.
- Smith A J:** American College of Surgeons, Surgical Forum, Chicago, IL, October 2003. Comment on: "K-ras mutation is a marker of accelerated metastatic progression in colorectal cancer".
- Smith A J:** Ottawa General Hospital, Ottawa, Ontario, June 2004. Communities of Practice: Pre-Launch "Think Tank".
- Smith A J:** Society of Surgical Oncology, New York, NY, March 2004. Gastrointestinal Cancer Parallel Session-Moderator.
- Smith A J:** UBC Department of Surgery and BC Cancer Agency, Vancouver, BC, September 2003. Optimizing Rectal Cancer Management.
- Smith A J:** Roche Pharmaceuticals, Niagara-on-the-Lake, ON, May 2004. Surgeons and chemotherapy clinical trials.
- Smith A J:** Canadian Society of Gastroenterology Nurses, Toronto, ON, September 2003. The Critical Importance of Staging GI Cancers.
- Smith A J:** CCO Surgical Oncology Network Symposium, Toronto, ON, October 2003. Tumour Board: Case Presentations.

## **RESEARCH AND INVESTIGATIONS**

*Senior Investigator's Name Appears in Italics*

A population based study of the outcomes of transanal resection for rectal cancer. *Law C, Paszat L, Klar N, Stern H, Swallow C, Smith A: NCIC (\$172,000 2002 - 2004).*

A Population Based Study of the Outcomes of Transanal Resection for Rectal Cancer. *Law, C.H.L., Paszat L, Klar N, Stern H, Swallow C, Smith A, Wright F: National Cancer Institute of Canada (NCIC) (\$172,767 2003 - 2005).*

A Population-Based Study of Outcomes of Screening Mammography among Ontario Women 40-49 years of age. *Paszat L, Bondy S, Mai V, Chiarelli A, Benk V, Jong R, Holloway C, Ringash J, Mamdani M, Klar N: Canadian Breast Cancer Research Initiative (\$705,280 2002 - 2005).*

A prospective study of intervals and delays in the diagnosis of breast and colon cancer. *Bondy S, Angus J, Benk V, Grunfeld E, Hodgson D, Holowaty E, Iscoe NA, Kim J-H J, Loblaw DAB, Paszat L, Smith AJ: CIHR (\$645,605 2002 - 2005).*

Breast Cancer Imaging and Therapeutics: Research and Clinical Opportunities. *Plewes DP, Yaffe M, Holloway CMB, Causer P, Jong R: Den Haag Foundation (\$18,100,000 2003 - 2008).*

Breast Cancer Prevention Study of Tamoxifen and Raloxifene (STAR). *Lickley HLA*, Down N, Cheung A, Pritchard KI, Oldfield M, Mandel M.; *National Surgical Adjuvant Breast and Bowel Project (NSABP)* (\$830,000 1999 - 2004).

Department of Critical Care Medicine Academic Enrichment Fund. *Dr. Lorraine Tremblay: Sunnybrook and Women's College Health Sciences Centre.* (\$10,000 2002 - 2003).

Does Clinical Examination, Mammography, Ultrasound or Magnetic Resonance Imaging Best Correlate with Pathological Response after Neo-adjuvant Therapy in Women with Locally Advanced Breast Cancer? *Wright F, Holloway C, Clemons M, Pignol J-P, Trudeau M, Causer P: Canadian Breast Cancer Foundation Ontario Chapter* (\$113,096 2004 - 2006).

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).

Improving Colon Cancer Staging Through a Multimodal Knowledge Translation Program Aimed at Surgeons and Pathologists. *Smith AJ, Law CHL, Wright FC, Ryan D, Stern H, Khalifa M: Ontario Cancer Research Network (OCRN)* (\$246,633 2003 - 2005).

Mechanisms of modulation of the host inflammatory and immune response by mechanical ventilation. Start-up funds. *Dr. Lorraine Tremblay: Sunnybrook and Women's College Health Sciences Centre* (\$100,000 2002 - 2003).

Novel Radiopharmaceuticals for Radioguided Surgery of Ductal Carcinoma in Situ of the Breast. *Raymond Reilly, Claire Holloway, Charles Catzavelos, Jasbir Sandhu and Aaron Hendler: US Army Diagnostic and Surgical Breast Imaging Award* (\$364,410 2000 - 2003).

Operating Funds. *Dr. Lorraine Tremblay: Sunnybrook and Women's College Health Sciences Centre, Department of General Surgery* (\$60,000 2002 - 2006).

Operating Funds. *Dr. Lorraine Tremblay: Sunnybrook and Women's College Health Sciences Centre, Centre Research Institute* (\$70,000 2003 - 2005).

Outcomes of an Injury Prevention Program. *Banfield, Joanne, Brenneman F; Redelmeier D: Practise Based Research Award, Sunnyside & Women's College HSC* (\$14,340 2003 - 2004).

Psychosocial Functioning in Women With Mastectomy With or Without Breast Reconstruction. *Metcalfe, Kelly A., Narod S, Semple J, Holloway C: Canadian Breast Cancer Foundation Ontario Chapter* (\$183,168 2004 - 2007).

Quality Initiative in Rectal Cancer (QIRC) Trial. *Simunovic M, Mark Levine, Charles Goldsmith, Timothy Whelan, Robin McLeod, George Browman, Hartley Stern, Robert Riddell, Andy Smith (Steering Committee): CIHR* (\$786,124 2001 - 2005).

Radiation Exposures From Diagnostic Imaging in Trauma Patients. *Dr. Homer Tien, Dr. Lorraine Tremblay, Co-investigator: Physicians Services Incorporated Foundation* (\$21,000 2004 - 2005).

Radioguided Surgery of Ductal Carcinoma in Situ of the Breast. *Raymond Reilly, Charles Catzavelos, Claire Holloway, Jas Sandhu: Susan G. Komen Breast Cancer Foundation. (USA) (Declined)* (\$215,386 2000 - 2003).

Sentinel lymph node study. *Holloway C, HLA Lickley: National Surgical Adjuvant Breast and Bowel Project (NSABP, B-32)* (\$275,000 2002 - 2004).

Sunnybrook and Women's College Health Sciences Centre-Comprehensive Multidisciplinary Breast Cancer Research Centre. *Pritchard KI, Hanna WM, Lickley HLA, Narod S, Plewes D, Sawka C, Seth A, Slingerland J, Warner E, Yaffe M, Kahn H, Wright B, Catzavelos C, Holloway C, Vargidis D, Sutherland D, Rakevitch E, Taylor G, Blondal J, Semple J, Roche K, Paszat L, Trudeau M, Bronskill M, Chart P, Burns P, Shumak R, Jong R, Berry S, Samuels T, Goel V: Canadian Foundation for Innovation and OIT* (\$11,250,000 2000 - 2003).

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:** Branksome Hall Alumnae of the year, March 2004.

**Lickley L:** Marvin Tile Award, Sunnybrook and Women's College Health Sciences Centre, December 2003.

**Smith A J:** American College Of Surgeons Oncology Group Regional Advocate Award, March 2004.



## **DIVISION OF NEUROSURGERY**

**Dr. M. Fazl - Assistant Professor**

**Dr. D.A. Houlden - Assistant Professor**

**Dr. R. Midha - Associate Professor**

**Dr. D.W. Rowed - Associate Professor**

**Dr. M.L. Schwartz – Professor (Division Head)**

**Dr. F. Pirouzmand – Assistant Professor**

## **PUBLICATIONS**

**Burkholder LM, Houlden DA, Midha, Weiss E, Vennettilli M:** Neurogenic motor evoked potential: role in brachial plexus surgery. *Journal of Neurosurgery*: January 2004.

**DaSilva VR, Al-Ghatany M, Midha R, Sarma D, Cooper PW:** Upper thoracic spinal cord herniation after traumatic nerve root avulsion: case report and review of the literature. *Journal of Neurosurgery*: January 2004.

**Midha R:** Peripheral Nerve: approach to the patient. In: Youman's Neurological Surgery (Winn R, ed). WB Saunders, Philadelphia,, PA: 2003: pp 3819-3830.

**Stanisz GJ, Webb S, Munro CA, Pun T, Midha R:** MR properties of neural tissue following experimentally induced inflammation. *Magnetic Resonance In Medicine*: January 2004: 51: pp 473-479.

**Webb S, Munro CA, Midha R, Stanisz GJ:** Is Multi-component T-2 a Good Measure of Myelin Content in Peripheral Nerve? *Magnetic Resonance in Medicine*: July 2003: 49: pp 638.

**Zakharov A, Papaiconomou C, Djenic J, Midha R, Johnston M:** Lymphatic cerebrospinal fluid absorption pathways in neonatal sheep revealed by subarachnoid injection of microfil. *Journal of Neuropathology and Experimental Neurology*: July 2003: 29: pp 563-573.

## **INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

**Midha R:** CNS, Denver, Colorado, October 2003. 1). Exposure and surgery of the peripheral nerves. 2). Peripheral nerve surgery; “must knows” for the practicing neurosurgeon. 3). The management of uncommon peripheral nerve entrapment syndromes.

## **RESEARCH AND INVESTIGATIONS**

*Senior Investigator's Name Appears in Italics*

Bioengineered alternatives to nerve graft for repair of peripheral nerve injuries. *Midha R, Shoichet MS: PSI Foundation* (\$136,000 2001 - 2003).

Bioengineered nerve grafts (Declined). *Midha R, Shoichet MS: Hospital for Sick Children Foundation* (\$129,858 2001 - 2003).

Lymphatic drainage of the central nervous system: Relevance to pediatric hydrocephalus. *Johnston MG, Midha R, Flessner MF: Medical Research Council of Canada* (\$482,234 1999 - 2004).

Quantitative magnetic resonance of tissue following trauma. *Stanisz, GJ, Midha R: CIHR* (\$224,349 2002 - 2005).

The investigation of psychological predictors of functional outcome following traumatic brain injury: A prospective study. *Dawson DR, Stuss DT, Winocur G, Schwartz ML: Ontario Neurotrauma Foundation* (\$209,780 2001 - 2004).

Tissue engineering cell culture facility. *Shoichet, MS, Midha, R; Sefton, MV and Tator CH: NSERC* (\$88,670 2002 - 2003).

Use of synthetic nerve grafts to improve nerve regeneration. *Midha R: Ontario Government, Premier's Research Excellence Award* (\$150,000 2001 - 2006).

## **HONOURS RECEIVED**

**Midha R:** Hudon Teaching Award, Division of Neurosurgery, January 2004.

## **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. G.R. Fernie - 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. Holtby - Assistant Professor**

**Dr. G.A. Hunter – Professor**

**Dr. H.J. Kreder - Associate Professor**

**Dr. B. 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**

**Axelrod TS:** Current Concepts in the Management of Distal Radius Fractures. In: The Rationale of Operative Fracture Care: 3rd Edition (Schatzker and Tile, ed). Springer-Verlag, Berlin: 2004: pp 159-176.

**Berry GK, Stevens DG, Kreder HJ, McKee MD, Schemitsch EH, Stephen DJG:** Open Fractures of the Calcaneum: A Review of Epidemiology, Treatment & Outcome. Journal of Orthopaedic Trauma: April 2004: 18(4): pp 202-206.

**Bing L. Yang, Burton B. Yang, Mark Erwin, Lee Cyn Ang, Joel Finkelstein, A.J. Yee:** Versican G3 domain enhances cellular adhesion and proliferation of bovine intervertebral disc cells cultured in vitro. Life Sciences: November 2003: 73, Issue 26: pp 3399-3413.

**Cameron HU:** Tibial Plateau Fractures. Canadian Journal of Surgery: April 2004: 47: pp 149-150.

**Canadian Orthopaedic Trauma Society:** Non union following intramedullary nailing of the femur with and without reaming. Journal of Bone and Joint Surgery: November 2003: 85-A: pp 2093-96.

**Chow E, Holden L, Danjoux C, Yee AJ, Vidmar M, Connolly R, Finkelstein JA, Cheung G:** Successful salvage using percutaneous vertebroplasty in cancer patients with painful spinal metastases or osteoporotic compression fractures. Radiotherapy and Oncology: January 2004: 70: pp 265-267.

**Dalgorf D, Borkhoff CM, Stephen DJG, Finkelstein J, Kreder HJ:** Venting during prophylactic nailing for femoral metastases: Current orthopaedic practice. Canadian Journal of Surgery: December 2003: 46(6): pp 427-431.

**Dalgorf D, Borkhoff CM, Stephen DJG, Finkelstein J, Kreder HJ:** Prophylactic nailing for femoral metastases and venting: Current orthopaedic practice. Canadian Journal of Surgery: October 2003: 46, No. 6: pp 427-31.

**Stephen DJG:** Management of metastatic lesions of lower extremity. Techniques in Orthopaedics: June 2004.

**Stephen DJG:** The technique of venting the femoral canal. Techniques in Orthopaedic Surgery: June 2004.

**Stephen, DJG:** Preoperative embolization of renal cell metastatic lesions. Techniques in Orthopaedic Surgery: June 2004:

- Davis AM, Schemitsch EH, Gollish JS, Szalai JP, Saleh K, Waddell JP, Davey R, Kreder HJ, Hutchinson C, Mahomed N, Gross AE:** Classifying Failed Hip Arthroplasties: Generalizability of Reliability and Validity. *Clinical Orthopaedics and Related Research*: September 2003: 415: pp 171-179.
- Dalgorf D, Borkhoff CM, Stephen DJG, Finkelstein J, Kreder HJ:** Venting during prophylactic nailing for femoral metastases: current orthopaedic practice. *Canadian Journal of Surgery*: December 2003: 46, No. 6: pp 427-31.
- Chow E, Holden L, Rubenstein J, Christakis M, Sixel K, Vidmar M, Finkelstein J, Hayter C, Lolaw C, Wong R, Szumacher E, and Danjoux C:** Computed Tomography (CT) Evaluation of Breast Cancer Patients with Osteolytic Bone Metastases Undergoing Palliative Radiotherapy - A Feasibility Study. *Radiotherapy and Oncology*: February 2004: 70, Issue2: pp 1-4.
- Chow E, Holden L, Danjoux C, Yee A, Vidmar M, Connolly R, Finkelstein J, and Cheung G:** Successful salvage using percutaneous vertebroplasty in cancer patients with painful spinal metastases or osteoporotic compression fractures. *Radiotherapy and Oncology*: March 2004: 70, Issue3: pp 265-67.
- Finkelstein JA, Kreder HJ:** Spine stats. The Cox regression analysis. *Spine*: September 2001: 1(5): pp 382.
- Finkelstein JA, Zaveri G, Wai E, Vidmar M, Kreder HJ, Chow E:** A population-based study of surgery for spinal metastases. Survival rates and complications. *Journal of Bone and Joint Surgery (British)*: September 2003: 85(7): pp 1045-1050.
- Berry G, Stephen DJG, Kreder, HJ, Schemitsch E, McKee M:** Open Fractures of the Calcaneus: A Review of Treatment and Outcome. *Journal of Orthopaedic Trauma*: April 2004: 18, No. 4: pp 202-06.
- Ghafouri M, McIlroy WE and Maki BE:** Initiation of rapid reach-and-grasp balance reactions: is a pre-formed visuospatial map used in controlling the initial arm trajectory? *Experimental Brain Research*: April 2004: 155: pp 532-536.
- Hall H:** Back Pain. In: *Neurological Therapeutics: Principles and Practice* (John H. Noseworthy, ed). Martin Dunitz, Taylor and Francis Group, London, UK: 2003: pp 193-207.
- Hall H:** When Should You Ask For Oblique Lumbar Films Of The Spine? *Patient Care*: September 2003: 14:
- Holden L, Rubenstein J, Christakis M, Danjoux C, Sixel K, Vidmar M, Connolly R, Finkelstein J, Szumacher E, Hayter C, Wong R, Chow E:** Evaluating remineralization in breast cancer patients with osteolytic bone metastases undergoing palliative radiotherapy using computerized tomography (CT) density measurements - a feasibility study. *International Journal of Radiation Oncology, Biology, Physics*: October 2003: 57-2 Suppl: pp S357-8.
- Holtby R, Razmjou H:** Validity of The Supraspinatus Test As A Single Clinical test In Diagnosing patients With Rotator Cuff Pathology. *Journal of Orthopaedic and Sports Physical Therapy*: April 2004: 34(4): pp 194-120.
- Holtby R, Razmjou H:** Accuracy of The Speed's And Yergason's Tests In Detecting Biceps Pathology And SLAP Lesions, *Journal of Arthroscopic and Related Surgery, Arthroscopy*. 2004 Mar;20(3):231-6. *Arthroscopy*: March 2004: 3: pp 231-236.
- Finkelstein JA, Zaveri G, Wai E, Vidmar M, Kreder H, Chow E:** A population-based study of surgery for spinal metastases. *Journal of Bone and Joint Surgery (Br)*: September 2003: 85B, No.7: pp 1045-50.
- Finkelstein JA:** Non operative management of thoracolumbar burst fractures. *Canadian Orthopaedic Association: December 2003: Bulletin#6*: pp 21-22.
- Kreder HJ:** Factors Affecting Outcome Following Surgical Treatment of Acetabular and Femoral Metastatic Lesions. *Techniques in Orthopaedics*: March 2004: 19(1): pp 38-44.
- Kreder HJ:** Importance of Outcome Research After Major Trauma. *Current Orthopaedics*: December 2003: 17: pp 331-334.
- Lafamme GY, Heimlich, D, Stephen DJG, Kreder HJ, MPH, Whyne CM:** Proximal tibial fracture stability with intramedullary nail fixation using oblique interlocking screws. *Journal of Orthopaedic Trauma*: August 2003: 17(7): pp 496-502.
- McKee MD, DiPasquale DJ, Wild LM, Stephen DJ, Kreder HJ, Schemitsch EH:** The effect of smoking on clinical outcome and complication rates following Iliizarov reconstruction. *Journal of Orthopaedic Trauma*: November 2003: 17(10): pp 663 - 667.
- Mousavi P, Roth S, Finkelstein J, Cheung G, Ahn H, Wai E, Whyne C:** Volumetric quantification of cement leakage following percutaneous vertebroplasty in metastatic and osteoporotic vertebrae. *Journal of Neurosurgery: Spine*: July 2003: 99, 1 supp: pp 56-9.
- Quant S, Adkin A, Staines WR, Maki BE and McIlroy WE:** The effect of a concurrent cognitive task on cortical potentials evoked by unpredictable balance perturbations. *Biomed Central Neuroscience*: April 2004: 5: pp 18.
- Richards R:** Sepsis of the Shoulder: Molecular Mechanisms and Pathogenesis. In: *Rockwood & Matsen: The Shoulder, 3rd Edition* (Rockwood Jr CA, Matsen FA III, Wirth MA, & Lippitt SB, eds). Saunders, 2004: pp 1233-1256.
- Reidy D, Ahn H, Finkelstein J, Mousavi P, Whyne C:** A Biomechanical Analysis of Intravertebral Pressures during Vertebroplasty of Cadaveric Spines with and without Simulated Metastases. *Spine*: July 2003: 28, No. 14: pp 1534-9.
- Reidy D, Finkelstein J, Nagpurkar A, Mousavi P, Whyne C:** Cervical spine loading characteristics in a cadaveric C5 corpectomy model using a static and dynamic plate. *Journal of Spinal Disorders and Techniques*: April 2004: 17(2): pp 117-122.

**Roth SE, Mousavi P, Finkelstein J, Chow E, Kreder HJ, Whyne C:** Metastatic burst fracture risk prediction using biomechanically based equations. *Clinical Orthopaedics and Related Research*: February 2004: 419: pp 83-90.

**Stafford P, Kennedy D, Pagura S, Gollish JD:** The relationship between self-reported and performance related measures: questioning the content validity of timed tests. *Arthritis and Rheumatism*: August 2003: 49: pp 535-540.

**Stephen DJG:** Acute management of pelvic fractures. *Current Orthopaedics*: November 2003: 17/5:

**Tile M:** Fractures of the pelvis and acetabulum, third edition (Tile M, Helfet D, Kellam J, eds). Lippincott, Williams and Wilkins, Philadelphia: 2003:

**Tripp B, McIlroy WE and Maki BE:** On-line mutability of step direction during rapid stepping reactions evoked by postural perturbation. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*: January 2004: 12: pp 140-152.

**Yang BL, Yang BB, Erwin M, Ang LC, Finkelstein J, Yee AJ:** Versican G3 domain enhances cellular adhesion and proliferation of bovine intervertebral disc cells cultured in vitro. *Life Sciences*: November 2003: 73 (26): pp 3399-3413.

**Yee AJ:** Thoracolumbar burst fracture without neurologic deficit: rationale for operative treatment. *Canadian Orthopaedic Association Bulletin*: November 2003: 63: pp 23.

**Yee AJ, Bae HW, Friess D, Robbin M, Johnstone B, Yoo JU:** Accuracy and Interobserver Agreement for Radiographic Determinations of Rabbit Posterolateral Spinal Fusion. *Spine*: June 2004: 29(12): pp 1308-13.

**Yee AJ, Bae HW, Friess D, Robbin M, Johnstone B, Yoo JU:** Augmentation of rabbit posterolateral spondylodesis using a novel demineralized bone matrix-hyaluronan putty. *Spine*: November 2003: 28(21): pp 2435-40.

#### INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Axelrod TS:** AO International; Karolinska Institute, Stockholm, Sweden, May 2004. AO Nordic Hand Course: Arthrodesis of the Thumb. Course Review and Introduction. Malunions of the Distal Radius. Acute Scaphoid Fractures, Non-Unions and Malunions. The Rationale of Distal Radius Fracture Management.

**Axelrod TS:** AO North America, Amelia Island, Florida, November 2003. AO North America Faculty Development Workshop: The AO Hand Courses: Models for Improvement.

**Axelrod TS:** AO/ASIF, Davos, Switzerland, December 2003. AO/ASIF Hand Course: Lecture; Arthrodesis of the Thumb Ray. Lecture; Internal Fixation in Adverse Bone Conditions. Lecture; Mal-Unions and Non-Unions of Distal Radius Fractures. Lecture; Scaphoid Non-Unions and Mal-Unions.

**Axelrod TS:** American Academy of Orthopaedic Surgeons, Annual Meeting, San Francisco, California, March 2004. Complications of Distal Radius Fractures: Arthritis and Carpal Deformity Instructional Course Lecture #221.

**Axelrod TS:** University of Toronto, Toronto, ON, April 2004. Mal-unions of the Distal Radius: Upper Extremity Update.

**Barry W. Malcolm:** Global Health Resources, Raytheon Corporation, Boston, Mass., November 2003. Low Back Pain in the Workplace.

**Barry W. Malcolm:** Insurance Institute of Ontario, Toronto Chapter, Toronto, Ontario, June 2004. Role of Physicians, In Auto Threshold & Healthcare Expenses.

**Cameron HU:** Guest Lecturer, Asia/Pacific Arthroplasty Society, Beijing, China, April 2004. (1) Bringing it down - acetabular problems in CDH, (2) Cementless total hip replacement, (3) Hip revision surgery without bone grafting, (4) The use of constraint in hip dislocation.

**Cameron HU:** Visiting Professor, Zhong Shan Hospital, Shanghai, China, April 2004. (1) Cementless total hip replacement, (2) Treatment of congenital hip dislocation.

**Cameron HU:** DePuy - S-ROM Learning Centre, Brescia, Italy, April 2004. (1) Design features of the S-ROM hip, (2) Hip revision without bone grafting, (3) Bail and nail - the only way out, (4) Preop planning for hip revision, (5) Long-term results of hip revision with a proximally modular stem.

**Cameron HU:** Guest Lecturer, Update in Hip Surgery Meeting, Seoul, Korea, June 2004. (1) Hip replacement in the deformed femur, (2) The oblong socket, (3) Surgical navigation - in opposition.

**Cameron HU:** Visiting Professor, Ruijin University, Shanghai, China, April 2004. (1) Hip revision surgery without bone grafting, (2) Congenital hip dislocation.

**Cameron HU:** Visiting Professor, University of Fukuoka, Fukuoka, Japan, December 2003. (1) Hip revision surgery, (2) Congenital hip dislocation.

**Cameron HU:** Visiting Professor, University of Tokyo, Tokyo, Japan, December 2003. (1) Hip revision surgery, (2) Congenital hip dislocation.

**Cameron HU:** Visiting Professor, University of Osaka, Osaka, Japan, December 2003. (1) Hip revision surgery, (2) Congenital hip dislocation.

**Cameron HU:** Visiting Professor, Chang Zheng University, Shanghai, China, April 2004. (1) Hip revision surgery, (2) Treatment of the deformed femur.

**Cameron HU:** Visiting Professor, Nantong University, Nantong, China, April 2004. (1) Hip revision surgery without bone grafting, (2) Congenital hip dislocation, (3) Hip replacement in femoral deformity.

**Cameron HU:** Visiting Professor, Huaxi Medical University, Chengdu, China, April 2004. (1) Surgical treatment of congenital hip dislocation, (2) Hip revision surgery without bone grafting, (3) Hip replacement in the deformed femur, (4) Cementless total hip replacement.

**Cameron HU:** Renji University, Shanghai, China, April 2004. (1) Surgical treatment of congenital dislocation of the hip, (2) Hip replacement in the deformed femur.

**Cameron HU:** Visiting Professor, University of Odawara, Odawara, Japan, December 2003. Congenital hip dislocation.

**Cameron JC:** Rocky Mountain Traumatological Society, Aspen, Colorado, January 2004. Combined Tibial Osteotomy plus ACL repair.

**Finkelstein JA:** Hadassah Medical Centre, Israel, December 2003. Biomechanics of a dynamic cervical plate and finite element modeling of spine.

**Gollish JD:** COA Annual Meeting, Winnipeg, Manitoba, October 2003. 1. [Moderator] Workshop: Contemporary Technologies in Total Joint Arthroplasty - Minimal Incision THA. 2. Workshop: Contemporary Technologies in Total Joint Arthroplasty - Minimal Incision UKA. 3. Debates in Total Joint Arthroplasty - MIS THA - Pro: The Future of Total Hip Arthroplasty.

**Gollish JD:** Minimally Invasive Solutions in Hip and Knee Arthroplasty, Oakville, Ontario, September 2003. [Course Chair] 1. MIS TJA - philosophy and development. 2. MIS THA - anterolateral surgical technique.

**Gollish JD:** New Technologies in Hip and Knee Arthroplasty, St. Andrews by the Sea, NB, July 2003. [Course Chair] 1. MIS UKA - surgical technique. 2. MIS THA - anterolateral surgical technique. 3. MIS THA 2-incision history and concept.

**Hall H:** CBI Health, Kitchener Ontario, October 2003. A Consultation With The Back Doctor.

**Hall H:** CBI Health, Edmonton Alberta, May 2004. Disability, Illness Behaviour and Symptom Exaggeration: Evidence Based Identification and Management of the Reluctant Patient.

**Hall H:** CBI Health, Red Deer, Alberta, November 2003. Effective Management of Automobile Accident Injuries.

**Hall H:** CBI Health, Richmond, British Columbia, September 2003. Management of Workplace and MVA Injuries in Family Practice.

**Hall H:** CBI Health, Abbotsford British Columbia, September 2003. Management of Workplace Injuries in Family Practice.

**Hall H:** CBI Health, London Ontario, October 2003. Managing Low Back Pain in Family Practice

**Hall H:** CBI Health, Fort McMurray, Alberta, November 2003. Managing Simple Mechanical Back Pain in a Complex Environment.

**Hall H:** CBI Health, Calgary Alberta, November 2003. Managing Whiplash Patients in a Busy Family Practice.

**Hall H:** CBI Health, The Importance of a Rapid Return to Work. In the following cities:

Woodbridge Ontario March 2004.

Kitchener Ontario April 2004.

Ottawa Ontario April 2004.

Hamilton Ontario, May 2004.

Sudbury Ontario, May 2004.

**Hall H:** CBI Health, Edmonton Alberta, November 2003. Whiplash. Whiplash in Family Practice.

**Hall H:** CBI Health, Lethbridge Alberta, November 2003. Whiplash: Fact And Fiction.

**Hall H:** Insurance Bureau of Canada, Halifax Nova Scotia, December 2003. An Update On The Evidence: MVA Injury.

**Hall H:** Workers' Compensation Board of British Columbia, Richmond, British Columbia, November 2003. Best Practices for Disability Case Management. . Keynote Address: The Importance Of A Rapid Return To Work. Workshop: The Physical Examination Of The Low Back.

**Hall H:** Office of the Employer Advisor, Ministry of Labour, Toronto Ontario, October 2003. How To Recognize A Work-related Injury.

**Hall H:** Spinal Horizons Symposium, Chamberlain, South Dakota, October 2003. I Just Heard A Quack: Questionable Medical Practice.

**Hall H:** WSIB, Hamilton Ontario, April 2004. Managing Common Shoulder Problems.

**Hall H:** Insurance Bureau of Canada, Moncton New Brunswick, December 2003. Managing Motor Vehicle Accidents.

**Hall H:** Insurance Bureau of Canada, Mississauga Ontario, October 2003. Managing Whiplash: The Physicians' Role.

**Hall H:** Alberta Insurance Association, Red Deer, Alberta, May 2004. Successful Management of Whiplash Injuries.

**Hall H:** Timmins and District Hospital, Timmins Ontario, November 2003. The Family Doctor's Role in Return to Work.

**Holtby RM:** WSIB Conference, Achieving Excellence Through Collaboration: Best Rehabilitation Outcomes, Toronto, Ontario, November 2003. Factors Affecting Outcome After Shoulder Surgery (Comparison Between Work-Related and Non-Work Related Injuries).

**Holtby RM:** WSIB Conference, Toronto, Ontario, September 2003. Razmjou H, Bean A, van Osnabrugge V, Mercer G, Travers N, Penney D: Measurement Properties of The Rotator Cuff Disease Specific Outcome Measures: The Rotator Cuff Quality of Life Outcome Measure And The Western Ontario Rotator Cuff Index. WSIB Conference. Achieving Excellence Through Collaboration: Best Rehabilitation Outcomes.

**Houlden DA:** Charles E. Henry Society 12th Annual Seminar and Workshops, Rochester, New York, April 2004. Multimodality evoked potentials.

**Kreder HJ:** Ontario Orthopaedic Association, Toronto, Ontario, November 2003. Antegrade versus Retrograde Femoral Nailing.

**Kreder HJ:** University of Ottawa, Ottawa, Ontario, March 2004. Visiting Professor.

**Kreder HJ:** University of Ottawa, Ottawa, Ontario, April 2004. A) Common Mistakes in AO Technique: How not to do AO. B) Displaced Intra-articular Distal Radius Fractures: A Randomized Controlled Trial of Indirect Reduction & Percutaneous Fixation versus Open Reduction and Internal Fixation. C) Evidence Based Surgery: Barriers and Pathway to Producing Better Evidence in the Future. (Epidemiology Program). D) Minimally Invasive Fracture Surgery.

**Kreder HJ:** AO ASIF 12th Annual Pelvic and Acetabular Course, Toronto, Ontario, May 2004. Complex Acetabular Fractures Managed Through A combined Surgical Approach.

**Kreder HJ:** Alpha Group, Cancun, Mexico, February 2004. Evidence Based Surgery.

**Kreder HJ:** Department of Orthopaedics, University of British Columbia, Vancouver, British Columbia, December 2003. A) Evidence Based Surgery & Critical Appraisal of the Literature. B) Hip Fractures: Assessing Outcome of Replacement versus Fixation.

**Kreder HJ:** Hadassah University Medical Centre, Jerusalem, Israel, December 2003. Evidence Based Surgery Application in Trauma Research and Practice. Visiting Professor, Sunnybrook - Hadassah Orthopaedic Trauma Exchange.

**Kreder HJ:** The Israel Orthopaedic Association, Tel Aviv, Israel, December 2003. Fragility Fractures of the Acetabulum: The Role of Primary Arthroplasty.

**Kreder HJ:** Division of Orthopaedics, University of Ottawa, Hans K. Uthoff Research Day, Ottawa, Ontario, April 2004. Hip Fractures in the Elderly: Is it Safe to Delay, and Higher Mortality in Non-teaching Hospitals.

**Kreder HJ:** Canadian Orthopaedic Association, Calgary, Alberta, June 2004. Instructional Course Lecture: Trauma; Fracture Rounds - Polytrauma.

**Kreder HJ:** Ontario Orthopaedic Association, Toronto, Ontario, November 2003. A) Proximal Femoral Fractures: The Case for Plating. B) . The Case Against Alternate Bearing Surfaces in Total Joint Replacement.

**Maki BE:** Balance Disorders, Dizziness and Falls: Evaluation, Treatment and Evidence, a conference organized by Continuing Physical Therapy Education, University of Saskatchewan, Saskatoon, Saskatchewan, Oct 2003. Control of rapid limb movements for balance recovery: age-related impairment and implications for fall prevention.

**Maki BE:** CIHR Teams in Aging Workshop, Toronto, Ontario, Oct 2003. Innovative approaches to optimizing balance and mobility in older adults.

**Maki BE:** Centre for Research on Aging, University of Sherbrooke, Sherbrooke, Quebec, Apr 2004. Why aren't you falling? Control of rapid limb movements for balance recovery in young and older adults.

**Maki BE:** International Symposium on Preventing Falls and Fractures in Older Persons, Yokohama, Japan, Jun 2004. Control of rapid limb movements for balance recovery: control mechanisms, age-related changes and implications for fall prevention.

**Marks PH:** Sungkyunkwan University, Samsung Medical Center, Seoul, Korea, May 2004. A) Comparison of One-leg Hop for Distance Scores in the ACL Deficient Population With Group of Healthy Controls. B) . Evaluation of the Mitek BTB Cross Pin Device Versus Bioscrew for Femoral Fixation in ACL Reconstruction. C) The ACL Risk Equation: Does Reconstruction Prevent Degenerative Arthritis in the Knee?

**Marks PH:** University of Philippines-Philippines General Hospital Medical Center, Philippines, May 2004. Comparison of One-leg Hop for Distance Scores in the ACL Deficient Population With Group of Healthy Controls.

**Marks PH:** St. Luke's Medical Center, Philippines, May 2004. A) Diagnosis of Recurrent Meniscal Tears. B) Evaluation of the Mitek BTB Cross Pin Device Versus Bioscrew for Femoral Fixation in ACL Reconstruction.

**Marks PH:** Siriraj Hospital, Bangkok, Thailand, May 2004. Diagnosis of Recurrent Meniscal Tears: Prospective Evaluation of Conventional MR Imaging, Indirect MR Arthrography, and Direct MR Arthrography.

**Marks PH:** Rajvithi Hospital, Bangkok, Thailand, May 2004. A) Evaluation of the Mitek BTB Cross Pin Device Versus Bioscrew for Femoral Fixation in ACL Reconstruction. B) Inflammatory Mediators in Post-Traumatic Osteoarthritis in the ACL Deficient Knee.

**Marks PH:** Tri-Service General Hospital, National Defence Medical Center, Taipei, Taiwan, May 2004. A) Inflammatory Cytokine Profiles Correlate With the Degree of Chondrosis in the Chronic ACL Deficient Knee. B) The ACL Risk Equation: Does Reconstruction Prevent Degenerative Arthritis in the Knee?

**Marks PH:** AOSSM Annual Meeting, Quebec City, Canada, June 2004. A) Report of the 2004 Pacific Rim Tour - AOSSM Sports Medicine Travelling Fellowship. B) Research in Orthopaedic Sports Medicine: Where We've Been, Where We're Going.

**Marks PH:** Chulalongkorn Hospital, Bangkok, Thailand, May 2004. The ACL Risk Equation: Does Reconstruction Prevent Degenerative Arthritis in the Knee?

**Marks PH:** Philippine Orthopaedic Society for Sports Medicine, Pasig City, May 2004. The ACL Risk Equation: Does Reconstruction Prevent Degenerative Arthritis in the Knee?

**Marks PH:** 77th Annual Congress Japanese Orthopaedic Association, Kobe, Japan, May 2004. The ACL Risk Equation: Does Reconstruction Prevent Degenerative Arthritis in the Knee?

**Richards RR:** The Alpha Club, Mayan Riviera, Mexico, February 2004. (1) What's New in My Practice, (2) Debridement of Rotator Cuff Tears in the Elderly, (3) Strategies for Faculty Recruitment and Retention (with D.W.C. Johnston).

**Richards RR:** Canadian Orthopaedic Association, Ottawa, Ontario, October 2003. Basic Science Lecture.

**Richards RR:** Workplace Safety and Insurance Board, Toronto, Ontario, October 2003. Diagnosis, Management, and Prognosis of Multi-Directional Instability of the Shoulder.

**Richards RR:** American Society for Surgery of the Hand, Chicago, USA, September 2003. Instructional Course - Clinical Controversies II - Tennis Elbow: Facts, Myths, Voodoo, and Controversies. (1) Interactive Case Reviews - Rehabilitation of Tennis Elbow (2) ECRB Origin Debridement: The "Nirschl" Procedure.

**Richards RR:** International Congress on Surgery of the Shoulder, Washington, DC, May 2004. Outcomes (Moderator).

**Richards RR:** 1st International Symposium. University of South Florida. Treatment of Complex Shoulder Problems, Tampa, Florida, January 2004. Shoulder Arthrodesis for the Rotator Cuff Deficient Shoulder.

**Richards RR:** Spine Society of Europe, Porto, Portugal, June 2004. Surgeons in Crisis - The Heart or the Mind?

**Schatzker J:** Presented: Fracture Classification as an Aid to Decision Making, fractures of the Distal Humerus, Distal Femoral Intra-Articular Malunion and Non-union, Supracondylar Fractures of the Femur., Adelaide, Australia, October 2003. Australian Orthopaedic Association, Guest Speaker.

**Schatzker J:** Presented: Evolution of Trauma Care, Fractures of the Tibial Plateau, Fracture Classification An Aid to Decision Making, Supracondylar Fractures of the Femur., Lima, Peru, August 2003. Guest Peruvian Orthopaedic Association, Annual Meeting.

**Schatzker J:** Presented: Causes of Intramedullary Nailing Failures Resulting in Non-Union, Malunion and Nail Fractures, Preoperative Planning in THR, Technique of TKR, HangZhou and FuZhou, China, September 2003. Trauma Conference.

**Stephen DGS:** Orthopaedic Think Tank, Synthes, Beaver Creek, Colorado, January 2004. 1. Calcaneus Fractures, 2. Femoral neck fractures.

**Stephen DGS:** AO International - Masters Course, Davos, Switzerland, December 2003. 1. Controversies in radiology following multiple trauma, 2. Articular fractures, 3. Severe open femur fractures.

**Stephen DGS:** American Academy of Orthopaedic Surgeons, International Trauma Course, San Francisco, CA, March 2004. Hands On Skills Bone Model Lab - Lab Instructor - Spanning Fixation with ORIF.

**Stephen DGS:** Orthopaedic Trauma Association (OTA), Residents Course, Salt Lake City, Utah, October 2003. Lab Instructor on Pilon Fractures.

**Stephen DGS:** Orthopaedics for General Practitioners Course, Montreal, Quebec, January 2004. Lower extremity pediatrics.

**Stephen DGS:** Lower Extremity Trauma Update, Whistler, BC, February 2004. Percutaneous plating: New wave or reality?

**Stephen DGS:** Canadian Orthopaedic Foot and Ankle Society 2nd Annual Specialty Day (during COA), Calgary, AB, June 2004. Predictors of outcome following subtalar arthrodesis.

**Stephen DGS:** Canadian Orthopaedic Association, Calgary, AB, June 2004. Reduction and internal fixation of posterior wall acetabular fractures. (Workshop).

**Stephen DGS:** Zimmer National Sales Meeting, Phoenix, Arizona, January 2004. Update on biologic plating.

**Tile M:** Hellenic Association of orthopaedics and traumatology, Athens, Greece, October 2003. Keynote presidential guest lecture.

**Tile M:** Israel Orthopaedic Association, Tel Aviv, Israel, October 2003. Presidential guest speaker.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

A Comparison of Minimally Invasive THA to Standard Approach THA - Clinical and Radiographic Outcomes. *Gollish JD, Kennedy DM, Nicholson S, Wilkes C: Orthopaedic and Arthritic Institute Research Fund* (\$10,000 2004 - 2005).

A Prospective Study of Biomechanically Based Guidelines in Metastatic Burst Fracture Risk Prediction. *Cari Whyne, Albert Yee, Joel Finkelstein, Hans Kreder, Edward Chow, Antonia Barnes, Iris Weller, Mark Clemons, Maureen Trudeau: Canadian Breast Cancer Research Alliance* (\$335,406 2003 - 2005).

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 2002 - 2004).

Activities following total knee arthroplasty - which are safe? *Weller I, Gollish JD, Kreder H, Kennedy DM: Canadian Orthopedic Foundation* (\$20,000 2003 - 2004).

Activities Following Total Knee Replacement: Which are Safe? *Weller I, Kreder HJ, Gollish G, Kennedy D: Canadian Orthopaedic Foundation* (\$10,000 2004 - 2005).

Association between cognitive functioning and the risk of falling among the elderly. *McIlroy WE, Maki BE, Glazer P: Ontario Neurotrauma Foundation* (Mentor-Student Program) (\$48,159 2004 - 2005)

Control of limb movements to recover balance: effect of environment and activity. *Maki BE, McIlroy WE, Fernie GR: Canadian Institutes for Health Research* (\$368,160 1999 - 2004)

D-KAF: Dalteparin versus Usual Care in Knee to Ankle Fractures for the prevention of clinically important thrombosis. *Geerts Wm, Kreder HJ, Selby R: CIHR Rx&D* (\$903,560 2001 - 2003).

Factors Affecting Outcomes after Shoulder Surgery. *Dr. R. Holtby, Ms. H. Razmjou, Ms. M. Hunt, Dr. T. Axelrod: Orthopaedic and Arthritic Research Trust* (\$6,000 2003 - 2004).

Innovative approaches to optimizing balance and mobility in older adults. *Maki BE, McIlroy WE, Fernie GR, Popovic M, Lui B, Fisher R: Canadian Institutes of Health Research* (\$1,101,385 2002 - 2007)

Integrated Post Fracture Care. *Jaglal S, Kreder HJ, McIsaac W, Jaakimainen L, Hawker G, Davis D, Carroll J, Cadarette S, Bogoch E: Ontario Women's Health Council* (\$189,636 2002 - 2003).

Integrated Post Fracture Care for Osteoporosis in Ontario: A Demonstration Project. *Jaglal S, Kreder HJ, Bogoch E, Brooks D, Carroll J, Jaakimainen L, Zwarenstein M: Primary Health Care Transition Fund* (\$760,204 2003 - 2006).

Intelligent Design for Adaptation, Participation and Technology (IDAPT): Innovative Rehabilitation for People in Challenging Environments. *Fernie GR, Colangelo A, Cott C, Davis A, De Nil L, Maki BE, McIlroy WE, Naglie G, Naumann S, Patla A: Canadian Foundation for Innovation* (Innovation Fund) (\$18,398,069 2004 - 2007)

Lateral Compression Pelvic Injuries : To Fix or Not to Fix? *Cari Whyne, Khoury A., Roth S., Bulmer B., Stephen D., Kreder H: University of Toronto Zimmer Unrestricted Funds* (\$10,000 2004 - 2005).

Osteoarthritis After Knee Injury. *Marks PH, Hurtig M, White L, Weller I: CAN - Canadian Arthritis Network* (\$132,000 2004).

Patient expectations and functional outcome following posterior lumbar spine surgery (effect of response shift in quality of life). *Joel A. Finkelstein: Orthopaedic Fellow/Resident Research Grant, OAI Research Committee* (\$3,000 2004).

Percutaneous photodynamic therapy for the treatment of metastatic breast carcinoma to the spine: A novel application. *Albert J.M. Yee (PI), Co-Investigators: Cari Whyne, Joel Finkelstein: Canadian Breast Cancer Research Initiative; April 2002 IDEA grant competition* (\$50,000 2002 - 2003).

Photodynamic therapy for the treatment of metastatic breast carcinoma to the spine: Development and validation in a pre-clinical model. *Albert Yee, MD, Joel A. Finkelstein, MD (Co-Investigator), Shane Burch, MD, S. Bisland, MD, B. Wilson, MD: Canadian Breast Cancer Foundation - Ontario Chapter* (\$300,000 2004 - 2007).

Prediction of burst fracture risk in the metastatic thoracic spine with finite element analysis. *Whyne C: NSERC* (\$96,000 2001 - 2005).

Predictors of disability following revision total knee arthroplasty. *Aileen Davis, Nizar Mahomed, Hans J. Kreder, Allan Gross, Emil Schemitsch, J.R. Davey, Earl Bogoch: CIHR* (\$84,194 2001 - 2004).



Predictors of Outcome Following Revision Total Hip Arthroplasty. *Davis A., Gross AE, Davey JR, Mahomed N, Szalai JP, Kreder HJ, Schemitsch EH, Badley EH, Saleh KJ, Hutchinson C: Arthritis Society* (\$78,024 2001 - 2004).

Predictors of outcome following revision total hip arthroplasty. *Gross AE, Davis A, Gollish JD, Waddell JP, Mohamed N, Schemitsch E: The Arthritis Society* (\$310,000 1998 - 2004).

Profiling function pre and post-operatively in the total hip and knee arthroplasty population. *Gollish,JD, Kennedy D, Stratford P, Pagura S, Woodhouse L: Orthopaedic and Arthritic Foundation* (\$24,000 2001 - 2003).

Quality of life before and after below knee amputation for limb ischemia. *Fairley, K, Murnaghan, J: Practice Based Research Sunnybrook and Women's College Health Sciences Centre* (\$7,506 2003 - 2004).

Randomized controlled trial of LISS plate versus conventional fixation for supracondylar femur fractures. *Ross Leighton, MD, David J.G. Stephen, MD, Emil Schemitsch, MD, Hans J. Kreder, MD, Michael D. McKee, MD, Pierre Guy, MD, Rick Buckley, MD, Peter O'Brien, MD: AO International* (\$250,000 2003 - 2005).

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).

Senior Scientist career award. *Maki BE: Canadian Institutes for Health Research* (\$350,000 1999 - 2004)

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

The validation of a classification for work-related disorders of the shoulder and elbow. *Dorcas Beaton, R. Richards, S. Hogg-Johnson: Research Advisory Council, Workplace Safety and Insurance Board of Ontario* (\$103,356 2002 - 2004).

Thromboprophylaxis with Low Molecular Weight Heparin (Fragmin) vs Warfarin in Patients Undergoing Primary Total Knee Replacement. *Gollish JD, Cameron H, Cameron J, Ford M, Murnaghan J, Holtby R, Wright CS: Pharmacia Corporation Canada* (\$240,000 2002 - 2003).

## HONOURS RECEIVED

**Yee AJM:** Canadian Back Institute Award, 2002 Kennedy Visiting Professorship Day, Division of Orthopaedic Surgery, University of Toronto "PDT for the treatment of spinal metastasis; preclinical study" S. Burch, SK Bisland, A. Bogaards, CM Whyne, B Yang, AJM Yee, Joel Finkelstein, Brian Wilson, November 2003.

**Yee AJM:** International Society for the Study of the Lumbar Spine (2004 Annual Meeting Best Paper Award/Medtronic-Sofamor Danek); "Evaluation of spinal metastases in a preclinical rat model of human breast carcinoma." Burch S, Bisland S, Bogaards A, Whyne C, Finkelstein J, Wilson B, Yee A. Porto, Portugal, June 2004.

**Holtby RM, Hawkins R, Hollingshead R, Litchfield R, Mohtadi N, Razmjou H:** Canadian Orthopaedic Foundation, Arthroscopic vs Mini Open Repair of Full-Thickness Tear of the Rotator Cuff (A prospective Randomized Study) JOINTS Canada Organization July 2003 (10,000.00), July 2003.

**Holtby RM, Holtby H, Damacén H, Wright S, Razmjou H:** Clinical Outcomes Following Arthroscopic Stabilization with Capsular Plication, The Musculoskeletal Grant Program, Fellowship Grant, Orthopaedic & Arthritic Institute (\$1,170.00), March 2004.

**Holtby RM, Lincoln S, Holtby R, Razmjou H, Axelrod T:** Comparison of Surgical Failure Between Work-Related and Non-Work Related Shoulder Pathologies. The Practice-Based Research Funds (\$5,975.00), May 2004.

**Holtby RM, Holtby R, Hawkins R, Hollingshead R, Litchfield R, Mohtadi R, Razmjou, H:** Musculoskeletal Grant Program Orthopaedic & Arthritic Institute. Arthroscopic vs Mini Open Repair of Full-Thickness Tear of the Rotator Cuff (A prospective Randomized Study) Joints Canada (\$20,000), July 2003.

**Holtby RM, Holtby R, Razmjou H, Myhr T, Bean A, Tavers N, van Osnabrugge V, Denton C, Rid N:** Pattern of recovery following rotator cuff surgery. The Musculoskeletal Grant Program, Orthopaedic & Arthritic Institute. (\$20, 000.00, 2003-2004), September 2003.

**Richards RR:** Medal Lecture - Spine Society of Europe (for presentation "Surgeons in Crisis - The Heart or the Mind?" - Porto, Portugal, June 2004.

**Schatzker J:** Advanced AO Course, Poland, Wroclaw, January 2004.

**Schatzker J:** AO Trustee Meeting, Venice, January 2004.

**Schatzker J:** Peruvian Orthopaedic Association, Corresponding Member., August 2003.

**Schatzker J:** University Learning Centre, Sydney, Australia, April 2004.

**Schatzker J:** Visiting Surgeon, Zhen Zhae, Peoples Hospital & Ninbo, China, January 2004.

**Whyne C:** International Society for the Study of the Lumbar Spine Annual Meeting Best Paper Award: Medtronic-Sofamor Danek (Burch S, Bisland SK, Bogaards A, Whyne CM, Finkelstein JA, Wilson BC, Yee AJ), June 2004.

## 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. A. J. Fialkov – Assistant professor**

**Dr. J.S. Fish – Associate Professor**

**Dr. J.L. Semple – Associate Professor (Division Head)**

## PUBLICATIONS

**Adhikari N, Fish J:** Burnsurgery.org : A starting Point for Intensivists. *Critical Care*: December 2003; 8: pp 143-144.

**Asaria J, Kobusingye O, Khingi BA, Balikuddembe BA, Gomez M, Beveridge M:** Acid Burns from Personal Assault in Uganda. *Burns*: September 2003; 30: pp 78-81.

**Beveridge M, Howard A, Burton K, Holder W:** The Ptolemy Project: A Scalable Model for Delivery of Health Information in Africa. *British Medical Journal*: October 2003; 327: pp 7418.

**Beveridge M:** Surgical Training in East Africa. *Lancet*: June 2004; 363: pp 2196.

**Bezhuly M, Gomez M, Fish JS:** Emergency department management of minor burn injuries in Ontario , Canada. *Burns*: January 2004; 30: pp 160-164.

**Bohacek L, Gomez M, Fish JS:** An Evaluation of Internet Sites for Burn Scar Management. *Journal of Burn Care and Rehabilitation*: September 2003; 24(4): pp 246-51.

**Cartotto RC, Kadikar N, Musgrave M, Gomez M, Cooper A:** What are the acute cardiovascular effects of subcutaneous and topical epinephrine for hemostasis during burn surgery? *Journal of Burn Care and Rehabilitation*: September 2003; 24: pp 297-305.

**Cohen M, Antonyshyn O, Michaeli-Cohen A:** Spectacle-induced nasal dermochalasis - A new entity. *Eur J Plast Surg*: December 2003; 26: pp 335-337.

**Cornish P, Mittmann N, Gomez M, Cartotto RC, Fish, J:** Cost of Medications in Patients Admitted to a Burn Center. *American Journal of Clinical Dermatology*: December 2003; 4: pp 861-867.

**Cornish P, Mittmann N, Gomez M, Cartotto RC, Fish JS:** Cost of medications in patients admitted to a burn center. *Am J Clin Dermatology*: December 2003; 4(12): pp 861-7.

**Grover RS, Antonyshyn OM:** Care of maxillofacial injuries in multiple trauma. *Current Orthopaedics*: September 2003; 17: pp 274-286.

**Grover RS, Mainprize J, Ing E, Antonyshyn O:** Graves' exophthalmos: Volumetric assessment of orbital expansion. *Canadian Journal of Plastic Surgery*: December 2003; 11 (4): pp 191-197.

**Hopper RA, Woodhouse K, Semple JL:** Acellularization of human placenta with preservation of the basement membrane: A potential matrix for tissue engineering. *Annals of Plastic Surgery*: December 2003; Dec; 51(6): pp 598-602.

**Fish J:** Toxic Epidermal Necrolysis :The Role of Burn Units in Treating these Massive Cutaneous Wounds. In: *Problems in General Surgery : Thermal Injuries* (J Saffle, ed). Williams and Wilkins, Philadelphia: 2003: pp 120-128.

**Semple JL:** Adipose tissue transfer and survival. Guidelines and recommendations. *Patient Care. The Practical Journal for Canadian Primary Care Physicians*: April 2004; 15: pp 26.

**Macdonald DF, Binhammer PA, Rubenstein JD, Fournasier VL:** Giant cell reparative granuloma of the hand: case report and review of giant cell lesions of hands and feet. *Canadian Medical Association*: December 2003; 46: pp 471-473.

**Manktelow RT, Binhammer PA, Tomat LR, Bril V, Szalai JP:** Carpal Tunnel Syndrome: Cross-Sectional and Outcome Study in Ontario Workers. *Journal of Hand Surgery*: March 2004; 29A: pp 307-317.

**Metcalf KA, Goel V, Lickley L, Semple JL, Narod SA:** Prophylactic bilateral mastectomies; patterns of practice. *Cancer* 2002, July 15: July 2003; 95: pp 236-342.

**Mittmann N, Knowles SR, Gomez M, Fish J, Cartotto R, Shear NH:** Evaluation of the Extent of Under Reporting Serious Adverse Drug Reactions : The Case of Toxic Epidermal Necrolysis. *Drug Safety*: June 2004; 27(7): pp 477-487.

**O'Donovan DA, Antonyshyn OM:** Maxillary Fractures. In: *Maxillofacial Trauma* (Thaller S, MacDonald WS, eds). Marcell Decker Inc, New York: 2003: pp Ch 14.

**Shortt R, Gomez M, Mittmann N, Cartotto RC:** IVIG Does not improve outcome in Toxic Epidermal Necrolysis. *Journal of Burn Care and Rehabilitation*: June 2004; 25: pp 246-255.

**So K, Umraw N, Scott J, Campbell K, Musgrave M, Cartotto RC:** The Effects of Enhanced Patient Education on Compliance with Silicone Gel Sheeting (SGS) and Burn Scar Outcome: A Randomized Prospective Study. *Journal of Burn Care and Rehabilitation*: November 2003; 24: pp 411-417.

**Umraw N, Chan Y, Gomez M, Cartotto RC, Fish JS:** Effective Hand Function Assessment After Burn Injuries. *Journal of Burn Care and Rehabilitation*: January 2004; 25: pp 134-139.

**Umraw N, Chan Y, Gomez M, Cartotto RC, Fish JS:** Effective Hand Function Assessment After Burn Injuries. *Journal of Burn Care and Rehabilitation*: February 2004; 25: pp 134-139.

**Wanzel K, Fish JS:** Residency training in plastic surgery: a survey of educational goals. *Plastic and Reconstructive Surgery*: September 2003; 112(3): pp 723-9.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Antonyshyn O:** AO ASIF Advanced Symposium: Advances in the Management of Craniomaxillofacial Surgery, Sun Valley, Idaho, February 2004. Fireside Seminar: Aesthetic Considerations in Maxillofacial Surgery: Genioplasty, Rhinoplasty, Malar Augmentation. B) Image Guidance Applications in Orbital Surgery. C) Reconstructing Traumatic and Ablative Eyelid Deficiencies.

**Antonyshyn O:** Educational Foundation of the Canadian Society of Plastic Surgeons. Facial Trauma Symposium, Hamilton, Ontario, June 2004. Nasoethmoid fractures: Diagnosis and management. Panel discussion: Facial trauma case review.

**Beveridge, M:** Sunnybrook and Women's College Health Sciences Centre Volunteer Association Annual Recognition Dinner, Toronto, Ontario, August 2003. The Road Less Traveled By.

**Beveridge, M:** The Royal College of Physicians and Surgeons of Canada, Halifax, Nova Scotia, September 2003. Towards a Canadian International Medicine Strategy.

**Binhammer P:** AO International, Davos, Switzerland, December 2003. Fixation of the Hand and Wrist.

**Brown MH:** American Society of Plastic Surgical Nurses Annual Meeting, Vancouver, British Columbia, April 2004. Cohesive Silicone Gel Breast Implants in Aesthetic and Reconstructive Breast Surgery.

**Brown MH:** Inamed Academy, Toronto, Ontario, February 2004. Course Director - Style 410 Cohesive Gel Breast Implants.

**Brown MH:** Inamed Academy, Vancouver, British Columbia, April 2004. Course Director - Style 410 Cohesive Gel Breast Implants.

**Brown MH:** Inamed Academy, Montreal, Quebec, May 2004. Course Director - Style 410 Cohesive Gel Breast Implants.

**Brown MH:** Cosmetic Enhancement Seminars, Toronto, Ontario, March 2004. Current Issues in Breast and Body Contouring Surgery.

**Brown MH:** Fashion Group International, Toronto, Ontario, December 2003. Current Issues in Breast Augmentation.

**Brown MH:** New You 2004, Toronto, Ontario, May 2004. Current trends in breast and body contouring.

**Cartotto, RC:** United States Army Medical Research and Material Command -Defence Research and Development Canada: Management of Battlefield Tissue Injury Conference, Toronto, ON, June 2004. Burns: A Canadian Perspective - challenges and questions from civilian burn care.

**Cartotto, RC:** American Burn Association Annual Meeting, Vancouver, British Columbia, March 2004. A) Endpoints in Fluid Resuscitation (Sunrise Symposium). B) High Frequency Oscillatory Ventilation in burn patients.

**Fish JS:** Swchsc Infection Control Rounds, Toronto, Ontario, April 2004. Burn Care for Infectious Disease.

**Fish JS:** National Capital Association of Plastic Surgeons, Ottawa, Ontario, February 2004. Burn Care Review.

**Fish JS:** Childrens Hospital of Eastern Ontario, Ottawa, Ontario, February 2004. Burn Care Review.

**Fish JS:** Reconstructive Special Interest Group, Vancouver, B.C., March 2004. Burn Reconstructive Interest Group : Integra for Burn Reconstruction.

**Fish JS:** American Burn Association , 36th Annual Meeting, Vancouver , B.C., March 2004. Determining Burn Depth.

**Fish JS:** World Burn Congress, Phoenix Society, Cleveland, Ohio, September 2003. Effects of Burn Injury on Aging.

**Fish JS:** North Network CME Event (16 Sites Across Ontario), Toronto, Ontario, September 2003. Electrical Burn Injury - Introduction of the Telemedicine Program for Electrical Burns.

**Fish JS:** North Network CME, Multiple sites in Ontario, Ontario, November 2003. Electrical Burns, Medical Implications.

**Fish JS:** Trauma Association of Canada, Mt Tremblant, Quebec, March 2004. Fraser Gurd Lecture.

**Fish JS:** Newfoundland Surgical Society, Cornerbrook, Newfoundland, March 2004. Invited Lecturer : Difficult Wound Healing and Burn Update.

**Sample JL:** Tissue Engineering Society International, 6th Annual International Conference and Exposition, Orlando, Florida, December 2003. A) Chair: Imaging and Computational Tissue Engineering Panel, Session #7. B) Fibroblast behaviour in human dermal substitutes: A computer simulation model I-3D collagen matrix model structure and visualization. C) Fibroblast behaviour in human dermal substitutes: A computer simulation model II-simulating and visualizing cell migration in 3D Matrices.

**Sample JL:** Canadian Lymphedema Foundation, Calgary, Alberta, November 2003. The Importance of Lymphatics in the Treatment of Melanoma.

**Sample JL:** Canadian Meteorology. & Oceanographic Society, Edmonton, Canada, May 2004. Weather & Death on Mt. Everest: An analysis of high impact storms at extreme altitude.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

Advanced Regenerative Tissue Engineering Centre (ARTEC). ARTEC program is based @ SWCHSC in partnership with University of Toronto & APOTEC Research Inc., Rimon Therapeutics, Elastin Sepcialties and matRegen. Multiple projects and PI's from Engineering, Basic Science and Surgery receive funding. Funds also support new lab space at the Sunnybrook site, new hires and network development. *Sample JL*, Woodhouse K, Sefton M, Shoichet M, Dumont D, Midha R, Fish J: *Ontario Research Development Challenge Fund (ORDCF)* (\$12,568,500 2003 - 2008).

Advanced Research in Tissue Engineering : Multidisciplinary Group Working Grant. *Sample, John*, Fish, J, Midha, R, Fialkov, J.: *Ontario Research and Development Corporation Foundation for Advanced Research in Tissue Engineering* (\$12,000,000 2003 - 2008).

Evaluation of Castor Bean Polyurethane as a Bone Substitute in Rabbit Calvarial Defects. *Fialkov JA: The Physicians' Services Incorporated Foundation* (\$20,000 2004 - 2005).

Global protection of skeletal muscle against ischemic necrosis and vascular dysfunction by non-invasive remote ischemic preconditioning: Efficacy and mechanism. *Pang C.Y.*, Forrest CR, Neligan PC: *CIHR Operating Grant* (\$220,000 2003 - 2006).

Implant modeling and rapid prototyping in facial asymmetry correction. *Antonyshyn O*, Edwards G, Mainprize M: *Stryker/Leibinger Inc* (\$38,500 2002 - 2004).

Near Infrared Spectroscopy for Evaluation of Burn Depth. *Fish J.S.*, Leonardi, L., Sowa, M: *Physicians Services Incorporated* (\$160,000 2004 - 2006).

Prevention of Positional Plagiocephaly. *Forrest CR*, Damignani R, Klar K: *The Hospital For Sick Children Foundation* (\$20,000 2002 - 2003).

Psychosocial functioning in women treated with mastectomy with or without breast reconstruction. *JL Sample, K Metcalfe, C Holloway: Canadian Breast Cancer Foundation, Ontario Chapter* (\$183,168 2004 - 2007).

Radiation induced craniofacial bone growth inhibition: In vitro investigation of the molecular mechanisms and cytoprotection. *Gevorgyan A, Forrest CR: American Society of Maxillofacial Surgeons* (\$11,000 2004 - 2005).

Research Summer Studentship Award: Investigation of Morphing as a Tool for Assessing Morphological Outcomes of Facial Surgery. *Antonyshyn, O*, Pahuta, M, Edwards, G, Mainprize, M: *Sunnybrook Research Foundation* (\$1,600 2003).

## HONOURS RECEIVED

**Beveridge, M:** Best Surgical Teacher of the Year - 2003 (ROSE Rehabilitation Centre, Phnom Penh, Cambodia), November 2003.

**Beveridge, M:** Canadian Institutes of Health Research Research Grant for "The Ptolemy Project: Evaluation of Electronic Health Information for Surgical Capacity Building in East Africa" \$91, 700, May 2004.

**Cartotto, RC:** The Moyer Award, American Burn Association for research paper (awarded to Haber J, Supervisor: Cartotto RC), March 2004.

**Fialkov JA:** Basic Science Research Prize - Canadian Society of Plastic Surgeons. Dr. Cory Goldberg supervised by Dr. Fialkov, June 2004.

**Fialkov JA:** Visiting Professor Award - Dr. Cory Goldberg, resident supervised by Dr. Fialkov, June 2004.

**Sample JL:** Dr. Marvin Tile Distinguished Service Award for contributions to the Department, the Hospital & the University of Toronto, June 2004.

## **DIVISION OF UROLOGY**

**Dr. L.K. Carr - Assistant Professor**

**Dr. S. Herschorn – Professor**

**Dr. L.H. Klotz – Professor (Division Head)**

**Dr. R.K. Nam - Assistant Professor**

**Dr. V. Venkateswaran - Assistant Professor**

## **PUBLICATIONS**

**Alibhai S, Klotz L:** A systematic review of randomized trials in localized prostate cancer. *Canadian Journal of Urology*: February 2004: 11(1): pp 2110-17.

**Alibhai S.M.H., Naglie G., Nam R., Trachtenberg J., Krahn, M.D:** Do older men benefit from curative therapy of localized prostate cancer? *Journal of Clinical Oncology*: September 2003: 21: pp 3318-3327.

**Bagnall S, and Klotz:** Conservative versus radical therapy of prostate cancer: how have recent advances in molecular markers and imaging enhanced our ability to prognosticate risk? *Seminars in Oncology*: October 2003: 30(5): pp 587-595.

**Bailly G, Herschorn S:** Urinary diversion. In: *Textbook of Neurogenic Bladder, Adults and Children* (Corcos, J, Schick E, eds). Martin Dunitz, London 2004.

**Bissada N, Herschorn S:** Urinary conduit formation using a retubularized bowel from continent urinary diversion or intestinal augmentations: ii. does it have a role in patients with interstitial cystitis? *Journal of Urology* 2004 Apr: 171: pp 1559-62.

**Chatterjee S, Nam R, Fleshner N, Klotz L:** Permanent flank bulge is a consequence of flank incision for radical nephrectomy in one half of patients. *Urologic Oncology*: February 2004: 22(1): pp 36-40.

**Choo R, Do V, Sugar L, Klotz L, Bahk E, Hong E, Danjoux C, Morton G, DeBoer G:** Comparison of histologic grade between initial and follow up biopsy in untreated, low to intermediate grade, localized prostate cancer. *Canadian Journal of Urology*: February 2004: 11(1): pp 2118-2124.

**Debruyne F, Akaza H, Klotz L:** Innovative approaches in medical management of prostate cancer: hormones. In: *Prostate Cancer* (L Denis, G. Bartsch, S. Khoury, M. Murai, A. Partin, eds). Health Publications 2003, Paris, France: 2003: pp 139-158.

**Fleshner N, Bagnell PS, Klotz L, Venkateswaran V:** Dietary fat and prostate cancer. *The Journal of Urology*: December 2003: 2004:171: pp S19-24.

**Gajewski G, Carrier S, Barkin et al:** Erectile dysfunction and the female partner's perspective: A comparison with the man's perceptions. *Journal de sexual and reproductive medicine*: March 2004: 3, suppl b: pp 15b-18b.

**Grober ED, Tsihlias J, Jewett MA, Sweet JM, Evans A, Trachtenberg J, Robinette, M., Nam, R.K:** Correlation of the primary Gleason pattern on prostate needle biopsy with clinico-pathological factors in Gleason 7 tumors. *Canadian Journal of Urology*: February 2004: 11: pp 2157-62.

**Herschorn S:** Female pelvic floor anatomy: The pelvic floor, supporting structures, and pelvic organs. *Reviews in Urology* 2004 May: 6 suppl 5: pp S2-S10.

**Herschorn, S, Hijaz A:** Urethral injectables in the management of SUI and hypermobility. In: *Female Urology, Urogynecology, and Voiding Dysfunction* (Sandip P. Vasavada; Rodney A. Appell; Peter Sand; Shlomo Raz, ed). Marcel Dekker, New York 2004: pp 325-339.

**Ingram J, Klotz L:** Prostate cancer patients often over-treated. *Medical Post*: April 2004:

**Jamnicky L, Nam R:** *So You're Having Prostate Surgery* SCRIPT Medical Press, Toronto: 2004: pp 10.

**Kim N, Gleave M, Saad F, Choo R, Fradet Y, Klotz L:** Treatment options for advanced prostate cancer. *Science and Medicine Canada*, Toronto: 2003:

**Klotz L:** Active surveillance: an individualized approach to early prostate cancer. *British Journal of Urology*: October 2003: 92(6): pp 657-8.

**Klotz L:** Cavernosal nerve mapping: current data and applications.

*BJU Int.* 2004 Jan; 93(1): 9-13. *British Journal of Urology*: February 2004: 93(1): pp 9-13.

**Klotz L:** Endo Urology and Uro Oncology (editorial). *Canadian Journal of Urology*: February 2004: 11(1): pp 2108.

**Klotz L:** Expectant management in 2003: Rationale and Indications. In: *Prostate Cancer: Science and Clinical Practice* (J. Mydlo, C. Godec, eds). Academic Press (Elsevier), London England 2003: pp 253-257.

**Klotz L:** Re assessing PSA. *Canadian Journal of Urology*: December 2003: 10(6): pp 2032.

**Klotz L:** What residents need. *Canadian Journal of Urology*: October 2003: 10(4): pp 1914-5.

**Klotz L, Zietman A, Dreicer R:** Bridging the gap between Research and Patient Care. Prostate Cancer Update: June 2004: 3(2):

**Klotz LH, Goldenberg SL, Jewett MAS, Fradet Y, Nam RK, Barkin J, Chin J, Chatterjee S, and the Canadian Uro-Oncology Group:** Long term follow up of a randomized trial of 0 vs 3 months neoadjuvant androgen ablation prior to radical prostatectomy. Journal of Urology: September 2003: 170: pp 791-794.

**Klotz L:** Active surveillance with selective delayed intervention: A biologically nuanced approach to favorable risk prostate cancer. Clinical Prostate Cancer: September 2003: 2(2): pp 106-110.

**Moul JW, Anderson J, Penson DF, Klotz LH, Soloway MS, Schulman CC:** Early prostate cancer: prevention, treatment modalities, and quality of life issues. European Urology: September 2003: 44(3): pp 283-93.

**Nam R, Zhang WW, Trachtenberg J, Jewett MAS, Emami M, Vesprini D, Chu W, Ho M, Sweet J, Evans A, Toi A, Pollak M, Narod SA:** Comprehensive assessment of candidate genes and serological markers for the detection of prostate cancer. Cancer Epidemiology, Biomarkers and Prevention: December 2003: 12: pp 1429-1437.

**Zini A, Fischer MA, Nam RK, Jarvi K:** Use of alternative and hormonal therapies in male infertility. Urology: January 2004: 63: pp 141-143.

#### INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Carr LK:** Society of Urological Surgeons of Ontario, Toronto, Ontario, May 2004. Management of Refractory Urge Incontinence.

**Carr LK:** North York General Hospital, Toronto, Ontario, January 2004. Surgical grand rounds, innovations in management of urinary incontinence.

**Herschorn S:** Pfizer Canada; Centre for Studies in Primary Care, Queen's University, Vancouver British Columbia, Sep 19, 2003 - Sep 20, 2003. Co-chair of Faculty Development Workshop for "A course for primary care physicians on recognition, diagnosis, and management of patients with overactive bladder" - Overview of overactive bladder.

**Herschorn S:** 3rd International Consultation on Urinary Incontinence, Monte Carlo, Monaco, Jun 26, 2004 - Jun 29, 2004. Committee Chair On Surgery for Male Incontinence; Committee report presentation at plenary session.

**Herschorn S:** Prairie Urologic Association, Banff, Alberta, Feb. 19, 2004 - Feb 21, 2004. Guest faculty - 1. Postprostatectomy incontinence, 2. Vesicovaginal fistula, 3. Discussion with western Canada residents.

**Herschorn S:** McGill University, McMaster University Divisions of Urology, Quebec City, Quebec Feb 5, 2004 - Feb 7, 2004. Guest faculty Current Problems in Urology, 1. Management of female stress incontinence; 2. Evaluation of the patient with Lower Urinary Tract Symptoms (LUTS).

**Herschorn S:** Society for Urodynamics and Female Urology, Scottsdale, Arizona, Feb 27, 2004 - Feb 29, 2004. Guest faculty session on male incontinence, Male incontinence - epidemiology, pathophysiology, evaluation, and the use of bulking agents.

**Herschorn S:** Northwestern University Department of Gynecology and Baylor College of Medicine Division of Urology, St. John, US Virgin Islands, Feb 12, 2004 - Feb 14, 2004. Guest faculty Update in Gynecologic Urology; 1. Overactive bladder surgery; 2. Vesicovaginal fistula; 3. Mid-urethral slings- Monarc; 4. Post-op urethral obstruction and voiding dysfunction.

**Herschorn S:** University of West Virginia Division of Urology, Morgantown, West Virginia, Sep 5, 2003. Guest Faculty Urology Fall Conference - 1. Current status of injectable therapy for stress incontinence; 2. Stress urinary incontinence; 3. Update on reconstructive surgery.

**Herschorn S:** Genitourinary Reconstructive Genitourinary Reconstructive Surgeons (GURS) Meeting, San Francisco, California, May 10, 2004. Guest speaker: Is there a place for the Artificial Urinary Sphincter?

**Herschorn S:** Czech Urological Society Meeting, Uherske Hradiste, Czech Republic, May 27, 2004 - May 28, 2004. Guest speaker; Update on the Treatment of Male Urinary Incontinence.

**Herschorn S:** 21st World Congress on Endourology, Montreal, Quebec, Sep 24, 2003. Invited Faculty for workshop on minimally invasive treatment of stress urinary incontinence - Injectables and midurethral slings. Moderator of session on Endoscopic surgery of lower urinary tract/Incontinence and voiding dysfunction.

**Herschorn S:** American Urological Association Annual Meeting, San Francisco, California, May 11, 2004. Moderator session on urodynamics testing.

**Herschorn S:** University of Toronto min-med school, Toronto, Ontario, Oct 30, 2003. The truth about sex, prostates, and aging.

**Herschorn S:** Division of Urology, University of Manitoba, Winnipeg, Manitoba, Dec 2, 2003 - Dec 3, 2003. Visiting Professor - 1. New techniques in the management of female stress incontinence. 2. Challenges in major urologic reconstruction.

**Herschorn S:** Division of Urology, University of Alberta, Edmonton, Alberta, Nov 6, 2003 - Nov 7, 2003. Visiting Professor - Advances in the Management of Urinary Incontinence.

**Herschorn S:** Dalhousie University Division of Urology, Halifax, Nova Scotia, Apr 13, 2004 - Apr 15, 2004. Visiting Professor, 1. Post radical prostatectomy incontinence and erectile dysfunction. 2. Female pelvic floor anatomy and pathophysiology of stress

incontinence.

**Herschorn S:** University of Montreal Division of Urology, Montreal, Quebec, Apr 20, 2004 - Apr 21, 2004. Visiting Professor; 1. Advances in the treatment of female stress incontinence, 2. Challenges in major urologic reconstruction. Performed surgical procedures: 1. Closure of vesicovaginal fistula through transvaginal approach, 2. Insertion of inflatable penile implant into scarred corporal bodies.

**Venkateswaran V:** Dept. of Urology, Mc Gill University, Montreal, Quebec, November 2003. A Transgenic Model of Antioxidant Prostate Cancer Prevention.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

A transgenic model of prostate cancer prevention. *Klotz L, Fleshner N, Venkataswaram V: Prostate Cancer Research Foundation of Canada* (\$50,000 2003).

Clinical Utility of Genetic and Serological Testing in Prostate Cancer Diagnosis. *Robert Nam: University of Toronto, Connaught New Staff Matching Grant* (\$20,000 2003 - 2004).

Effect of intermittent versus continuous androgen suppression on bone loss and body composition in a phase 3 randomized trial, Project # 02OCT0203. *Klotz L, Gleave M: Ontario Cancer Research Network* (\$540,000 2003 - 2006).

Genetic and Serological Testing for Prostate Cancer. *Nam, R.K. (P.I.), Jewett, M.A.S. (Co-Applicant), Trachtenberg, J. (Co-Applicant), Klotz, L. (Co-Applicant): National Cancer Institute of Canada - PCRI* (\$50,000 2002 - 2003).

IGF-1 and HGPIN. *Robert Nam (P.I.), Steven Narod, Michael Pollak, Laurence Klotz, Neil Fleshner, Michael Jewett, Neil Fleshner: Prostate Cancer Research Foundation* (\$50,000 2004 - 2005).

Micronutrient and Molecular Prostate Cancer Network. *Neil Fleshner, Robert Bristow, Laurence Klotz, Paul Rennie, Martin Gleave, Jeremy Squire, Rama Khokka: National Cancer Institute of Canada* (\$3,200,000 2001 - 2005).

Muscle Cell Mediated Therapy for Stress Urinary Incontinence: A Phase 1 Trial. *Carr LK: Cook Myosite* (\$50,000 2003).

Noninvasive Longitudinal Imaging of Prostate Cancer Progression in a Transgenic Model. *Stuart Foster, Allison Duckett, Laurence Klotz, Vasundara Venkateswaran: Canadian Prostate Cancer Research Initiative* (\$50,000 2004 - 2006).

Prospective trial of mid-urethral placement of Collagen for female stress urinary incontinence. *Herschorn S. Bard, Covington, GA* (\$50,000 50,0 - 2004).

Prostate Cancer Micronutrient Research Network (Bionet). *Klotz L, Bristow R, Fleshner N, Pollack M, Rennie P, Rao V: NCIC Prostate Cancer Research Initiative* (\$120,000 2002 - 2004).

Quantification of the effect of brachytherapy on the lower urinary tract using urodynamic study in prostate cancer patients undergoing brachytherapy. *Choo R, Morton G, Herschorn S, Pignol JP, Loblaw A: Amersham* (\$30,000 30,0 - 2004)

Randomized controlled trial of Macroplastique versus Collagen in female stress urinary incontinence. *Herschorn S: Uroplasty, Minneapolis MN* (\$50,000 50,0 - 2004)

Randomized trial of Pentosan Polysulfate in the treatment of patients with interstitial cystitis. *Herschorn S. Ortho McNeill* (\$40,000 40,0 - 2005)

Randomized trial of Zuidex and collagen in the treatment of female stress urinary incontinence. *Herschorn, S. Q-med, Stockholm, Sweden* (\$30,000 30,0 - 2005)

SELECT Trial (Vitamin E and Selenium for Prevention of Prostate Cancer: A randomized trial. Funded at \$170,000,000. over 10 years. *Coltman, C., Many co-investigators with the South Western Oncology Group including Klotz, LH: NIH* (\$170 1999 - 2009).

Uracyst Instillation for the Management of Interstitial Cystitis. *Carr LK: Stellar Labs* (\$10,000 2003).

Women's Pelvic Health Centre -- Pilot Project. *Carr LK, Meschino D, Reicher A, Kung R, Lie K, Lee P, Holzapfel S, Richardson B, Blake J, Herschorn S: Sunnybrook & Women's College Health Sciences Centre Innovation Fund* (\$692,000 2001 - 2003).

## HONOURS RECEIVED

**Carr LK:** Division of Urology Faculty Post Graduate Teaching Award - Clinical, June 2004.

**Klotz LH:** AUA Lectureship at the European Society of Urology, Vienna Austria, March 2004.

**Klotz LH:** Chairman, Instructional Course at AUA, 'Management of Advanced Prostate Cancer', May 2004.

**Klotz LH:** Faculty Postgraduate Teaching Award, June 2004.

**Klotz LH:** Guest Speaker, Winter meeting of the Society of Urologic Surgeons of Ontario, January 2004.

**Klotz LH:** Huggins Symposium Lecturer, AUA, San Francisco California, May 2004.

**Klotz LH:** Invited AUA Lecture, European Society of Urology, Istanbul, Turkey, March 2004.

**Klotz LH:** Invited Guest Speaker, German Society of Urology, Marburg, Germany, October 2003.

**Klotz LH:** Invited Guest Speaker, Innovations and Controversies in Prostate Cancer, Boston Mass, November 2003.

**Klotz LH:** Invited Guest Speaker, Irish Society of Urology, Killarney, Ireland, October 2003.

**Klotz LH:** Visiting Professor, West Virginia School of Medicine, Morgantown West Virginia, January 2004.

**Klotz LH:** Visiting Professor, Division of Urology, University of Manitoba, Winnipeg, Manitoba, August 2003.

**Klotz LH:** Visiting Professor, Roswell Park Cancer Centre, Buffalo, NY, December 2003.

**Klotz LH:** Visiting Professor, University of Rochester, New York, November 2003.

**Venkateswaran V:** Award to attend the AUA summer research conference, August 2003.



## **DIVISION OF VASCULAR SURGERY**

**Dr. D.S. Kucey - Assistant Professor**

**Dr. R. Maggisano – Assistant Professor (Division Head)**

### **PUBLICATIONS**

**Al-Omran M, Tu JV, Johnston KW, Mamdani MM, Kucey DS:** Outcome of revascularization procedures for peripheral arterial occlusive disease in Ontario between 1991 and 1998: A population based study. *Journal of Vascular Surgery*: August 2003; 38(2): pp 279-288.

**Al-Omran M, Tu JV, Johnston KW, Mamdani MM, Kucey DS:** Use of interventional procedures for peripheral arterial occlusive disease in Ontario between 1991 and 1998: A population based study. *Journal of Vascular Surgery*: August 2003; 38(2): pp 289-295.

**Dueck A, Laupacis A, Johnston KW, Alter D, Kucey DS:** Survival following ruptured abdominal aortic aneurysm - Impact of patient, surgeon, and hospital factors. *Journal of Vascular Surgery*: April 2004; 39(4): pp 784-787.

**Dueck AD, Kucey DS, Johnston KW, Alter D, Laupacis A:** Long term survival and temporal trends of patient and surgeon factors following elective and ruptured abdominal aortic aneurysm surgery. *Journal of Vascular Surgery*: June 2004; 39(6): pp 1261-1267.

**Dueck AD, Kucey DS, Johnston KW, Alter D, Laupacis A:** Predictors of repair and the effect of gender on treatment of patients with ruptured abdominal aortic aneurysms. *Journal of Vascular Surgery*: June 2004; 39(6): pp 1253-1260.

**Tu JV, Wang H, Bowyer B, Green L, Fang J, Kucey DS:** Participants in the Ontario carotid endarterectomy: Observations from the Ontario carotid endarterectomy registry. *Stroke*: November 2003; 34(11): pp 2568-2573.

### **RESEARCH AND INVESTIGATIONS**

*Senior Investigator's Name Appears in Italics*

A Regional Assessment of Outcomes following Ruptured Abdominal Aortic Aneurysms. *Kucey DS, Dueck AD, Laupacis A: Physicians Services Incorporated* (\$16,500 2002 - 2003).

Carotid Endarterectomy Health Services Research Program. *Tu, Jack V, Kucey, DS, Anderson G, Perry M: Heart and Stroke Foundation of Ontario, Grant #T 4495* (\$180,000 1999 - 2003).



# TORONTO EAST GENERAL HOSPITAL

*Dr. Laura Tate*  
*Surgeon - in - Chief*

## *Heads of Division*

*Dr. R.A. Zeldin - General Surgery*  
*Dr. Gianni Maistrelli - Orthopaedic Surgery*  
*Dr. Atul Kesarwani - Plastic Surgery*  
*Dr. Rajiv Singal - Urology*

## *Introduction*

The Surgical Department of the Toronto East General Hospital has 20 Active surgeons including 3 Urologists, 5 Orthopedic Surgeons, 8 General Surgeons [2 thoracic and 2 vascular], 4 Plastic Surgeons and one consulting Neurosurgeon Dr. Fred Gentili.

## *General Surgery*

Dr. P.E. Bernick – Assistant Professor  
Dr. V. Campbell – Lecturer  
Dr. T. Gilas – Assistant Professor  
Dr. R.L. Mackenzie - Assistant Professor  
Dr. C. Simone  
Dr. P. Sullivan – Assistant Professor  
Dr. W. Tanner - Lecturer  
Dr. R.A. Zeldin - Assistant Professor (Division Head)

## *Orthopaedics*

Dr. Mel Catre - Lecturer  
Dr. Bill Kraemer - Lecturer  
Dr. Gianni Maistrelli - Associate Professor, (Division Head), Medical Director  
Dr. Peter Weiler - Assistant Professor  
Dr. Paul Wong - Lecturer

## *Plastic Surgery*

Dr. Marc Dupere  
Dr. Harold Hall - Assistant Professor  
Dr. Atul Kesarwani - (Division Head)  
Dr. Laura Tate - Lecturer  
(Program Medical Director Surgical Services)



## *Thoracic Surgery*

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

## *Urology*

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

## *Vascular Surgery (Under General Surgery)*

Dr. Vern Campbell – Lecturer  
Dr. Wayne Tanner - Lecturer

## *Changes*

Our department this year has grown with the addition of Dr. Carmine Simone, thoracic surgeon and intensivist. Dr. Simone and Dr. Rob Zeldin have been tightly involved in the process of taking our separate SICU and MICU units and amalgamating them into a closed combined unit model. This combined surgical and medical initiative as only been successful because of the common goals and professionalism that exists at our institution. We expect ongoing clinical trials and research to play an important role in the future of this unit. Dr. Simone is an excellent asset in this regard.

The Toronto East General Hospital has a new CEO this year Rob Devitt. Rob brings his expertise in government relations with him from Peterborough. Already he is involved with positioning the East General in today's rapidly changing health care façade. Our strategic plan is complete and our facilities review is underway. We have enjoyed strong support from Rob in the last 6 months and anticipate a continued strong relationship.

Dr. Trevor Born, Plastic Surgeon resigned December 2003 to pursue a full time cosmetic practice and teaching responsibilities at the University of Toronto.

The Hay Benchmarking Study has reviewed the Department of Surgery this year as part of a hospital wide initiative. This review has sparked internal analysis and suggestions to improve efficiency and preserve quality care.

The Bayer Communication Course was rolled out to the surgeons as a Continuing Education initiative after an intense 'train the trainer' format that involved all specialties at TEGH.

Toronto East General was involved in the 2<sup>nd</sup> arm of the Cancer Care Ontario Waiting Time Study.

### *Appointments*

Dr. John Kell was elected President of the Society of Urologic Surgeons of Ontario, July 1, 2004 for a 2 yr term

### *Promotions*

Dr. Paul Bernick promoted to Assistant Professor, University of Toronto

Dr. Rajiv Singal promoted to Lecturer, University of Toronto

Dr. Mel Catre promoted to Lecturer, University of Toronto

### *Awards*

Dr. Bill Kraemer was awarded the R.B. Salter Award for excellence in resident teaching as voted by the U of T orthopaedic residents.

### *Publications*

Cleary SP, Gryfe R, Gallinger S, Grieg P, Smith L, Mackenzie R, Strasberg S, Hanna S, Taylor B, Langer B. Prognostic Factors in Resected Pancreatic Carcinoma: Analysis of 5-year Survivor. J Am Coll Surg 2004; 198:000S A

### *Invited Presentations*

Gianni Maistrelli: Italian Orthopaedic Society Annual

Meeting, Rome, Italy, Nov, 2003. 1.) MIS Unicompartmental Knee Replacement: indications, technique and early results, 2.) Liner exchange in Hip Revision Surgery: Indications and Results

Gianni Maistrelli: Catholic University of Rome, Rome, Italy Dec. 2003 Rome Hip Course 1.) Antero lateral Approach 2.) Porous – HA Coatings for Cups 3.) Porous – HA Coatings for Stems 4.) Ceramic – Ceramic Bearings

Gianni Maistrelli: Orlando Conference on Minimally Invasive Surgery, Orlando Florida, April 2004 1) MIS Uni Knee Replacement. Indications, Technique and Results 2.) MIS Hip Replacement. The Lateral Approach

Gianni Maistrelli: Advances in Hip Revision Surgery, Trieste, Italy. May 2004, 1). Modular liner-Head Revisions.

Gianni Maistrelli: MIS Uni Knee Surgery, Rome, Italy June 2004, Indications, Techniques and Results.

L. Tate: Glassblowing 101, Canadian Society of Plastics Surgeons, Hamilton, May 2004



# UNIVERSITY HEALTH NETWORK

*Dr. Bryce Taylor  
Surgeon-in-Chief*

## *Heads of Division*

- Dr. T. David – Cardiac Surgery*
- Dr. O. Rotstein – General Surgery*
- Dr. C. Wallace – Neurosurgery*
- Dr. R. Davey – Orthopaedic Surgery*
- Dr. P. Neligan – Plastic Surgery*
- Dr. S. Keshavjee – Thoracic Surgery*
- Dr. N. Fleshner – Urology*
- Dr. B. Rubin – Vascular*

This year saw many challenges for Surgical Services, beginning with the resolution of the SARS crisis, and continuing with the opening of our new TGH OR's, intensive AFP discussions, with the Ministry of Health, and the ever-present necessity of doing more with less! The commitments to complex clinical care, education and clinical and basic research, were evidenced in the seven program groupings, with surgical input into Heart and Circulation, Transplantation, Oncology and Blood Disorders, Neural and Sensory Sciences, Musculoskeletal Health and Arthritis, Advanced Medicine and Surgery and Community and Population Health. Educational results and awards and research productivity as measured by papers published, invited visits and grants held, reflected those commitments by our 70 surgeons.

In Cardiac Surgery, Tirone David became president this year of the American Association of Thoracic Surgery and partway through the year, was applauded as he placed the 20,000th Toronto porcine heart valve. He was also recently given the Antoine Marfan Award by the National Marfan's Foundation, and was appointed a University Professor at University of Toronto.

While cardiac surgeons were performing approximately 2000 major open heart procedures, they continued their commitment to research with CIHR and Heart and Stroke grants awarded to Drs. Dick Weisel, Tirone David, Chris Feindel, Ren-Ki Li, Terry Yau, Joan Ivanov, Michael Borger, and Subodh Verma. Dr. Viv Rao was also given the new investigator Award from CIHR in the research personnel Award competition.

In General Surgery, Drs. Ori Rotstein and John Marshall continued their outstanding contributions in research. Ori's fellow, Dr. Rachel Khadaroo, won the prestigious 1st



prize in the basic science section of the trauma residents' papers competition. Dr. Mark Cattral was awarded a CIHR grant for his investigation of dendritic cells, and John for his studies of prolonged neutrophil survival in human sepsis. Dr. Michael Reedijk was given the James Ewings award for research, from the Society for Surgical Oncology, and a number of teaching awards were won by Dr. Paul Greig, (the Frank Mills award), and Drs. Mark Walsh and Peter Stoddard, (the Paddy Lewis resident teaching awards). Dr. Andras Kapus won a premier's research excellence Award. Dr. Lorne Rotstein continued as program director for General Surgery. New recruits in addition to Dr. Michael Reedijk, were Drs. Ian McGilvray, Jaime Escallon and Wey Leong who have all strengthened the division tremendously in the fields of Transplantation and surgical oncology. As of July 1, Ori will be assuming the position of Surgeon-in-Chief, at St. Michael's hospital.

In Neurosurgery, Dr. Michael Fehlings was awarded a number of grants and in addition to his position as director of the Krembil Neuroscience Program, was an effective teacher in winning an Anderson postgraduate prize. He was also given a North America Spine Society research grant and an award of merit in basic science, from the Heart and Stroke clinical update meeting. Dr. Charles Tator was inducted into the Terry Fox Hall of fame, recognizing his accomplishments, such as the establishment of "think first Canada" and the prevention of spinal cord injuries. Dr. Mark Bernstein received his Masters of Health Science in bioethics, from the



University of Toronto in this last year and was also engaged



in philanthropic work overseas, taking time to win an Anderson Award for longstanding contributions to teaching. Dr. Ab Guha continued his wonderful humanitarian work, with his efforts to establish a neuroscience Hospital in India.

Dr. Chris Wallace, the Neurosurgery division head, became a member

of the nominating committee of the World Federation of neurosurgical societies, and completed five years as director of the Toronto Western Research Institute. He also co-chaired an important report produced by the Toronto District Health Council on neurosurgical access. He also won an undergraduate Anderson teaching award. Dr. Fred Gentili was the 2003 Ross Fleming teaching Award winner and became our UHN director of surgical education. Dr. Andres Lozano won the Penfield lectureship Award, given by the Canadian neurosurgical society and delivered a large number of other invited lectureships as well. Finally, Dr. Michael Tymianski won the George Armstrong Peters award in the Department of Surgery and on December 26<sup>th</sup>, published a much heralded manuscript in "Cell" describing some studies that may have a significant effect on the future treatment of stroke. Dr. Taufik Valiante has joined the team with an interest in Epilepsy and movement disorders.

In Orthopedics, Dr. Nizar Mohammed led the MHA, group in his first year as the inaugural holder of the Smith and Nephew chair. He and Dr. Rod Davey continued their complex reconstructive surgery and the division was also supportive of athletic and artistic teams.

In Plastic Surgery, Dr. Ralph Manktelow maintained his unique facial paralysis program and in fact won a PSI grant for further studies. He also gave the founders lecture at the American Society for Reconstructive Microsurgery. Dr. Peter Neligan was elected to the Board of the North America Skull Base Society and the American Society for Reconstructive Microsurgery. Dr. Dimitri Anastakis remained one of our UHN educational experts and is now seeing his hard work in the field of Patient Education, coming to fruition. We also welcomed Dr. Linda Dvali who joined the Plastics division as a superbly trained Hand surgeon.

In Thoracic Surgery, Dr. Bob Ginsberg received posthumously, the R.J. Ginsberg postgraduate teaching award. Dr. Tom Waddell won a new investigator Award from the CIHR research personnel Award competition and also became the Chair of the Regenerative Medicine platform at UHN. Dr. Gail Darling won an undergraduate Education Award, from

the Wightman-Berris Academy, and Dr. Griff Pearson became



the first recipient of the American Association of Thoracic Surgery's lifetime achievement award. Dr. Shaf Keshavjee was appointed Chair of the UofT Division of Thoracic Surgery and division head at University Health

Network.

In Urology, Dr. Neil Fleshner was principal investigator on a number of important national and international trials and Dr. John Trachtenberg continued his exciting work in photodynamic therapy, honored last June by the Weismann Institute at a gala dinner. Dr. Mike Jewett was vice-president of the Canadian Urologic Association and maintained his long-standing interest in Urooncology. Mike also made invaluable contributions to the recent University of Toronto Department of Surgery planning process.

The Vascular Surgery division had a challenging year. Dr. Tom Lindsay became the University Chair, and Dr. Barry Rubin, the Division Head at University Health Network. At the same time, both secured grants with PSI and CIHR. Wayne Johnston finished his six-year term as the editor of The Journal of Vascular Surgery and chaired the merger committee of the two major American vascular societies. Wayne this year achieved, the marvellous record of 27 consecutive years of CIHR Funding for his research. Finally, Dr. Barry Rubin worked tirelessly in his role as chairman and CEO of the University Health Network/Mount Sinai Academic Medical Organization and also as the physician representative, to the provincial academic health sciences centers/MOH AFP negotiations.

We had a number of important promotions in July, 2003, when Drs. Terry Yau, Andre Krassioukov, Rod Davey, Nizar Mahomed and Dimitri Anastakis were all promoted to the rank of Associate Professor. As of July, 2004, Dr. David McCready, Mingyao Liu and Glen Regehr, were promoted to the level of Full Professor, and Drs. Tom Waddell and Viv Rao, to Associate Professor.

The announcement of three new endowed chairs from the DeGasparis family, now brings our total in Surgical Services to 19 a number critical to our retention and recruitment strategies, at University Health Network.



## **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 - University 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 - Assistant Professor**

**Dr. H.E. Scully - Professor**

**Dr. R.D. Weisel - Professor**

**Dr. T.M. Yau - Associate Professor**

## **PUBLICATIONS**

**Bach DS, Goldman B, Verrier E, Petracek M, Wood J, Goldman S, David TE, Toronto SPV Valve Study Group:** Durability and prevalence of aortic regurgitation nine years after aortic valve replacement with the Toronto SPV stentless bioprosthesis. *Journal of Heart Valve Disease*: January 2004: 13: pp 64-72.

**Bucerius J, Gummert JF, Borger MA, Walther T, Doll N, Falk V, Schmitt DV, Mohr FW:** Predictors of delirium after cardiac surgery delirium: Effect of beating-heart (off-pump) surgery. *Journal of Thoracic and Cardiovascular Surgery*: January 2004: 127: pp 57-64.

**Butany J, Ahluwalia MS, Feindel CM:** Age-related Morphological Changes in Cardiac Valves. *Geriatrics & Aging*: October 2003: 6: pp 49-54.

**Butany J, Ahluwalia MS, Nair V, David TE:** Cryopreserved pulmonary homograft: postimplant changes. *Cardiovascular Pathology*: January 2004: 13: pp 59-61.

**Butany J, Collins MJ, David TE:** Ruptured synthetic expanded polytetrafluoroethylene chordae tendinae. *Cardiovascular Pathology*: May 2004: 13: pp 182-4.

**Butany J, Nair V, Ahluwalia MS, El Demellawy D, Chamberlain DW, Feindel CM:** Mediastinal Thymoma. *Circulation*: January 2004: 109: pp e1-e2.

**Butany J, Nair V, Woo A, Graba J, Collins MJ, David TE:** Carcinoid syndrome: an unusual cause of tricuspid and pulmonary valve disease. *Canadian Journal of Cardiology*: July 2003: 19: pp 945-6.

**Butany J, Privitera S, David TE:** Mitral valve prolapse: An atypical variation of the anatomy. *Canadian Journal of Cardiology*: November 2003: 19: pp 1367-73.

**Cohen G, Weisel RD:** Intraoperative myocardial protection: current perspectives and future trends. In: *Operative Cardiac Surgery* (Gardner & Spray, ed). Edward Arnold Publishers Limited, London: 2004: pp 73-81.

**David TE:** Marfan Syndrome: A Cardiovascular Perspective. In: *Diagnosis and Management of Adult Congenital Heart Disease* (Gatzoulis, Webb and Daubeney, eds). Churchill Livingstone 2003, London, UK: 2003: pp 481-486.

**David TE, Ivanov J:** Is degenerative calcification of the native aortic valve similar to calcification of bioprosthetic heart valves? *Journal of Thoracic and Cardiovascular Surgery*: October 2003: 126: pp 939-41.

**David TE, Mohr FW, Bavaria JE, Hammon JW Jr, Smith MJ III, Quinn RD, Bach DS:** Initial experience with the Toronto Root bioprosthesis. *Journal of Heart Valve Disease*: March 2004: 3: pp 248-253.

**Daviewala PM, David TE, Armstrong S, Ivanov J:** Aortic valve repair versus replacement in bicuspid aortic valve disease. *Journal of Heart Valve Disease*: November 2003: 12: pp 679-86.

**Daviewala PM, David TE, Butany J:** A large lipoma of the ascending aorta. *Annals of Thoracic Surgery*: March 2004: 77(3): pp 1079-80.

**Daviewala PM, Maganti M, Yau TM:** Decreasing significance of left ventricular dysfunction and redo surgery in predicting CABG mortality: A 12 year study. *Journal of Thoracic and Cardiovascular Surgery*: November 2003: 126: pp 1335-1344.

**Delgado DH, Rao V, Miriuka SG, Al-Hesayen A, McIver J, Feindel CM, Cusimano RJ, Ross HJ:** Explanation of a mechanical assist device: assessment of myocardial recovery. *Journal of Cardiac Surgery*: January 2004: 19: pp 47-50.

- Doll N, Fabricius A, Borger MA, Bucarius J, Doll S, Kramer K, Ullmann C, Schmitt DV, Walther T, Falk V, Mohr FW:** Temporary extracorporeal membrane oxygenation in patients with refractory postoperative cardiogenic shock: a single center experience. *Journal of Cardiac Surgery*: July 2003; 18: pp 512-8.
- Doll N, Kiaii B, Borger MA, Bucarius J, Kraemer K, Schmitt DV, Walther T, Mohr FW:** Five year results of 219 consecutive patients treated with extracorporeal membrane oxygenation for refractory postoperative cardiogenic shock. *Annals of Thoracic Surgery*: January 2004; 77: pp 151-57.
- Evers BM, Weissman IL, Flake AW, Tabar V, Weisel RD:** Stem cells in clinical practice. *Journal of the American College of Surgeons*: September 2003; 197: pp 458-478.
- Fazel S, Weisel RD, Li R-K:** The promise of tissue engineering in the heart. *Journal of Thoracic and Cardiovascular Surgery*: December 2003; 126: pp 2114-2115.
- Fedak PW, de Sa MP, Verma S, Nili N, Kazemian P, Butany J, Strauss BH, Weisel RD, David TE:** Vascular matrix remodeling in patients with bicuspid aortic valve malformations: implications for aortic dilatation. *Journal of Thoracic and Cardiovascular Surgery*: September 2003; 126: pp 797-806.
- Fedak PWM, Weisel RD, Verma S, Mickle DAG, Li R-K:** Restoration and regeneration of failing myocardium with cell transplantation and tissue engineering. *Seminars in Thoracic and Cardiovascular Surgery*: July 2003; 15: pp 277-286.
- Feindel CM, Tufail Z, David TE, Ivanov J, Armstrong S:** Mitral valve surgery in patients with extensive calcification of the mitral annulus. *Journal of Thoracic and Cardiovascular Surgery*: September 2003; 126(3): pp 777-83.
- Feindel, CM:** Postinfarction Ventricular Septal Defect. In: *Current Therapy in Thoracic & Cardiovascular Surgery* (Stephen C. Yang and Duke E. Cameron, ed). Mosby, Philadelphia: 2004: pp 669-671.
- Fujii T, Yau TM, Weisel RD, Ohno N, Mickle DAG, Shiono N, Ozawa T, Matsubayashi K, Li R-K:** Cell transplantation to prevent heart failure: a comparison of cell types. *Annals of Thoracic Surgery*: December 2003; 76: pp 2062-2070.
- Gummert J, Borger MA, Rastan A, Mohr FW:** Beating heart coronary bypass surgery in patients with acute myocardial infarction: A new strategy to protect the myocardium. In: *Myocardial Protection* (Salerno TA, Ricci M, eds). Blackwell Publishing Company Inc., Armonk, NY: 2004: pp 144-51.
- Hwang DM, Feindel CM, Butany JW:** Quadricuspid semilunar valves: Report of two cases. *Canadian Journal of Cardiology*: July 2003; 19 No. 8: pp 938-942.
- Ibrahim MF, Paparella D, Ivanov J, Buchanan MR, Brister SJ:** Gender-related differences in morbidity and mortality during combined valve and coronary surgery. *Journal of Thoracic and Cardiovascular Surgery*: October 2003; 126: pp 959-64.
- Lawton JS, Brister SJ, Petro KR, Dullum M:** Surgical Revascularization in Women: Unique Intraoperative Factors and Considerations. *Journal of Thoracic and Cardiovascular Surgery*: October 2003; 126: pp 936-938.
- Li S-H, Szmitko PE, Weisel RD, Wang C-H, Fedak PWM, Li R-K, Mickle DAG, Verma S:** C-reactive protein upregulates complement inhibitory factors in endothelial cells. *Circulation*: February 2004; 109: pp 833-836.
- Matsubayashi K, Fedak PWM, Mickle DAG, Weisel RD, Ozawa T, Li R-K:** Improved left ventricular aneurysm repair with bioengineered vascular smooth muscle grafts. *Circulation (Suppl)*: September 2003; Suppl: pp II219-25.
- Mickleborough LL, Carson S, Ivanov J:** Gender differences in quality of distal vessels: effect on results of coronary artery bypass grafting. *Journal of Thoracic and Cardiovascular Surgery*: October 2003; 126: pp 950-8.
- Mikhail P, Silversides C, Rao V, Butany J:** An incidental calcified right atrial mass. *Canadian Journal of Cardiology*: December 2003; 19: pp 1551.
- Morgan JA, John RJ, Rao V, Weinberg AD, Lee BJ, Mazzeo PA, Flanner MA, Chen JM, Oz MC, Naka Y:** Bridging to transplant with the HeartMate Left Ventricular Assist Device: The Columbia Presbyterian Twelve Year Experience. *Journal of Thoracic and Cardiovascular Surgery*: May 2004; 127: pp 1309-1317.
- Ohno N, Fedak PWM, Weisel RD, Mickle DAG, Fujii T, Li R-K:** Transplantation of cryopreserved muscle cells in dilated cardiomyopathy: effects on left ventricular geometry and function. *Journal of Thoracic and Cardiovascular Surgery*: November 2003; 126: pp 1537-1548.
- Ozawa T, Mickle DAG, Weisel RD, Matsubayashi K, Fujii T, Fedak PWM, Koyama N, Ikada Y, Li R-K:** Tissue-engineered grafts matured in the right ventricular outflow tract. *Cell Transplantation*: June 2004; 13: pp 169-177.
- Paparella D, Mickleborough LL, Carson S, Ivanov J:** Mild to moderate mitral regurgitation in patients undergoing coronary bypass grafting: effects on operative mortality and long-term significance. *Annals of Thoracic Surgery*: October 2003; 76: pp 1094-1100.
- Peterson MD, Borger MA, Rao V, Peniston CM, Feindel CM:** Skeletonization of Bilateral Internal Thoracic Artery Grafts Lowers the Risk of Sternal Infection in Patients with Diabetes. *Journal of Thoracic and Cardiovascular Surgery*: November 2003; 126: pp 1314-1319.
- Price J, Verma S, Li R-K:** Diabetic heart dysfunction: Is cell transplantation a potential therapy? *Heart Failure Review (Sp. Issue)*: July 2003; 8(3): pp 213-9.



**Rao V:** Discussion of Sharony et al. "Propensity case-match analysis of off-pump CABG in patients with athermatous aortic disease". Discussion. *Journal of Thoracic and Cardiovascular Surgery*: January 2004: 127: pp 406-413.

**Rao V, Oz MC:** Mechanical Circulatory Assistance. In: *Current Therapy in Thoracic and Cardiovascular Surgery* (Yang SC, Cameron DE, eds): 2004: pp 562-567.

**Richardson DC, Burrows LL, Korithoski B, Salit IE, Butany J, David TE, Conly JM:** Tropheryma whippelii as a cause of afebrile culture-negative endocarditis: the evolving spectrum of Whipple's disease. *Journal of Infectious Diseases*: August 2003: 27: pp 170-3.

**Szmitko PE, Wang CH, Weisel RD, de Almeida JR, Anderson TJ, Verma S:** New markers of inflammation and endothelial cell activation. Part I. *Circulation*: October 2003: 108: pp 1917-1923.

**Szmitko PE, Wang CH, Weisel RD, Jeffries GA, Anderson TJ, Verma S:** Biomarkers of vascular disease linking inflammation to endothelial activation. Part II. *Circulation*: October 2003: 108: pp 2041-2048.

**Tajmir P, Ceddia RB, Li R-K, Coe IR, Sweeney G:** Leptin increases cardiomyocyte hyperplasia via ERK-and PI 3-kinase-dependent signaling pathways. *Endocrinology*: January 2004: 145: pp 1550-5.

**Tang GHL, Maganti M, Weisel RD, Borger MA:** Prevention and management of deep sternal wound infection. *Seminars in Thoracic and Cardiovascular Surgery*: June 2004: 16: pp 62-69.

**Verma S, Badiwala MV, Weisel RD, Li S-H, Wang CH, Fedak PWM, Li R-K, Mickle DAG:** C-reactive protein activates the nuclear factor-kappaB signal transduction pathway in saphenous vein endothelial cells: implications for atherosclerosis and restenosis. *Journal of Thoracic and Cardiovascular Surgery*: December 2003: 126: pp 1886-1891.

**Verma S, Fedak PWM, Ko L, Cusimano RJ, Walton NA, Parker JD, Yau TM:** Evaluation of a novel sutureless anastomotic connector: from endothelial function to mid-term clinical and angiographic follow-up. *Journal of Thoracic and Cardiovascular Surgery*: November 2003: 126: pp 1555-1560.

**Verma S, Fedak PWM, Weisel RD, Szmitko PE, Badiwala MV, Bonneau D, Latter D, Errett L, LeClerc Y:** Off-pump coronary artery bypass surgery: fundamentals for the clinical cardiologist. *Circulation*: March 2004: 109: pp 1206-1211.

**Verma S, Li S-H, Kuliszewski MA, Szmitko PE, Zucco L, Wang -H, Badiwala MV, Mickle DAG, Weisel RD, Fedak PWM, Stewart DJ, Kutryk MJB:** C-reactive protein attenuates endothelial progenitor cell survival, differentiation and function: further evidence of a mechanistic link between C-reactive protein and cardiovascular disease. *Circulation*: May 2004: 109: pp 2058-2067.

**Verma S, Li S-H, Weisel RD, Wang C-H, Fedak PWM, Li R-K, Mickle DAG:** Resistin promotes endothelial cell activation: further evidence of an adipokine-endothelial interaction. *Circulation*: August 2003: 108: pp 736-740.

**Verma S, Rao V, Weisel RD, Hong-Li S, Fedak PWM, Miriuka S, Le RK:** Novel cardioprotective effects of pravastatin in human cardiomyocytes subjected to anoxia and reoxygenation: Implications for cardiac surgery. *Journal of Surgical Research*: June 2004: 119: pp 66-71.

**Verrier ED, Sherman SK, Taylor KM, Van de Werf F, Newman MF, Chen JC, Carrier M, Haverich A, Malloy KJ, Adams PX, Todaro TG, Mojcik CF, Rollins SA, Levy JH et al for the PRIMO-CABG Investigators:** Terminal Complement blockage with pexelizumab during coronary artery bypass graft surgery requiring cardiopulmonary bypass. A randomized trial. *JAMA*: May 2004: 291: pp 2319-2317.

**Wang C-H, Ciliberti N, Li S-H, Szmitko PE, Weisel RD, Fedak PWM, Al-Omran M, Cherg WJ, Li R-K, Stanford WL, Verma S:** Rosiglitazone facilitates angiogenic progenitor cell differentiation towards endothelial lineage. A new paradigm in glitazone pleiotropy. *Circulation*: March 2004: 109: pp 1392-1400.

**Watt-Watson J, Stevens B, Katz J, Costello J, Reid GJ, David TE:** Impact of preoperative education on pain outcomes after coronary artery bypass. *Pain*: May 2004: 109(1-2): pp 73-85.

**Wijeyesundera DN, Beattie W S, Rao V, Ivanov J, Karkouti K, Editorial by Ferguson TB: 622-624, Glower DD 625-626:** Calcium antagonists are associated with reduced mortality after cardiac surgery: A propensity analysis. *Journal of Thoracic and Cardiovascular Surgery*: March 2004: 127: pp 755-762.

**Wijeyesundera DN, Beattie WS, Rao V, Karski J:** Calcium channel antagonists reduce cardiovascular complications following cardiac surgery. *Journal of the American College of Cardiology*: July 2003: 41: pp 1496-1505.

**Yau TM, Li G, Weisel RD, Reheman A, Jia J-Q, Mickle DAG, Li R-K:** Vascular endothelial growth factor transgene expression in cell-transplanted hearts. *Journal of Thoracic and Cardiovascular Surgery*: April 2004: 127: pp 1180-1187.

#### INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Borger MA:** Trillium Northern Exposure Meeting, Mississauga, Ontario, November 2003. Acute ST elevation during OPCAB surgery.

**Borger MA:** Interventional Cardiology Whistler Course, Whistler, British Columbia, January 2004. A). Assessing stroke risk prior to cardiac surgery. B). Surgeons always get the last word.

**Borger MA:** Medtronic Symposium at 84th Annual American Association of Thoracic Surgery Meeting, Toronto, Ontario, April 2004. Long term results of the Hancock II tissue valve.



**Borger MA:** Outcomes Meeting, Key West, Florida, May 2004. Towards safer CPB: Strategies for reducing embolization.

**Brister SJ:** Canadian Cardiovascular Congress, Toronto, Ontario, October 2003. A). Co-Chair Scientific Session-Surgery II - Revascularization: Are we doing the best procedures. B). Co-chair Scientific Session. Surgery V. C) Endocarditis: What have we learned since Osler? We have come a long way since the days of Osler but do we have any more answers?

**David TE:** Symposium on surgery of the aortic root, Baiona, Spain, September 2003. (1) Toronto root bioprosthesis; (2) Aortic valve repair; (3) Personal experience with the Ross procedure.

**David TE:** McMaster University 3rd Symposium on Evidence-Based Cardiology for the Clinician, Toronto, Ontario, June 2004. Advances in the future of Cardiovascular Surgery.

**David TE:** St. Jude Medical Postgraduate Course for Residents, Minneapolis, Minnesota, March 2004. Anatomy of the aortic valve.

**David TE:** Emory University Visiting Professor, Atlanta, Georgia, June 2004. Aortic valve repair for aortic valve insufficiency: Tailoring of the operation to the pathophysiology.

**David TE:** The Mario Garcia Palmieri Lecture at the Interamerican Congress of Cardiology - Canadian Cardiovascular Society, Toronto, Ontario, October 2003. Cardiovascular surgery in patients with Marfan syndrome.

**David TE:** Cedars-Sinai Heart Center, Los Angeles, California, October 2003. Controversies in Adult Cardiac Surgery: (1) Complex aortic valve replacement; (2) Valve sparing aortic surgery.

**David TE:** 39th Annual Meeting of the Michigan Society of Thoracic and Cardiovascular Surgeons, Traverse City, Michigan, August 2003. Current surgical treatment of aortic root disease.

**David TE:** Canadian Society of Cardiac Surgeons - Postgraduate Course, Toronto, Ontario, October 2003. Management of complex aorta: aortic root enlargement, endocarditis, calcified aorta and aneurysms.

**David TE:** Washington University Postgraduate Course, St. Louis, Missouri, May 2004. Principles of AV repair.

**David TE:** German Heart Center Update on Aortic Surgery, Munich, Germany, June 2004. Surgical demonstration (AV Repair) and lecture on Hemodynamic aspects of different heart valve prostheses: Is complete supraannular positioning an alternative to stentless valves?

**David TE:** Aortic Symposium, Bergamo, Italy, April 2004. Surgical demonstration and lecture on AV Repair.

**David TE:** Postgraduate Course at University of Hamburg, Hamburg, Germany, October 2003. Surgical techniques for aortic valve reconstruction.

**David TE:** Japanese Cardiovascular Society, Toronto, Ontario, February 2004. Teleconference via satellite- AV Sparing.

**David TE:** University of Milan, Milan, Italy, October 2003. Visiting Professor - Operative demonstration and lecture - Aortic valve sparing operations in patients with Marfan syndrome.

**David TE:** University of Florence, Florence, Italy, October 2003. Visiting Professor: Aortic valve surgery. Live teleconference at the Azienda Ospedaliera Gareggi.

**David TE:** University of Asturias, Oviedo, Asturias, Spain, September 2003. Visiting Surgeon: Aortic valve replacement.

**Feindel CM:** University of Western Ontario, London, Ontario, May 2004. "Aortic Root Surgery" - Combined Cardiac Surgery & Cardiology Rounds.

**Feindel CM:** The 9th Annual Atlantic Canada Cardiovascular Conference - Dalhousie University, Halifax, Nova Scotia, April 2004. "Management of Aortic Dilatation".

**Feindel CM:** Canadian Cardiovascular Congress, Toronto, Ontario, October 2003. Coronary Endothelial Dysfunction during Cardiac Transplantation: Timing of Injury and Influence of Endothelin Bioactivity.

**Feindel CM:** St. Mary's Hospital, Kitchener, Ontario, December 2003. Medical Legal Aspects of Blood Transfusion.

**Feindel CM:** 2nd Joint European/North American Symposium on Congenital Heart Disease in the Adult, Santorini Island, Greece, September 2003. Valve Conserving Operations in Aortic Valve Disease.

**Ivanov J:** Peterborough Regional Health Centre, Division of Surgery and Anesthesia Conference Day, Peterborough, Ontario, February 2004. Cardiac surgery in the elderly.

**Li R-K:** National Cheng Kung University, Taiwan, Taiwan, September 2003. 1. Cell transplantation for heart diseases. 2. Creation of a viable cardiac graft to repair congenital heart diseases (visiting professor).

**Li R-K:** 3rd Yonsei Biomedical Symposium, Seoul, Korea, February 2004. Cardiac regeneration: cells or matrix (invited speaker).

**Li R-K:** ISSCR International Society for Stem Cell Research Second Annual Meeting, Boston, Massachusetts, June 2004. Cell Engineered Cardiac Graft For Ventricular Repair.

**Li R-K:** Symposium Of Stem Cell Therapy, Heinrich-Heine-Universitat, Dusseldorf, German, June 2004. Cell therapy for ischemic myocardium.

**Li R-K:** York University, Toronto, Ontario, September 2003. Cell transplantation to improve heart function (invited speaker).



- Li R-K:** International Heart Failure Summit, Toronto, Ontario, June 2004. Cell Transplantation: Lessons from Animal Models.
- Li R-K:** 2004 International Conference of Advanced Biotechnology, Taiwan, October 2003. Proteomics in Cardiovascular Research.
- Li R-K:** Research Day, University Health Network, Toronto, Ontario, November 2003. Tissue engineering to repair the damaged heart (invited speaker).
- Rao V:** 76th Scientific Sessions of the American Heart Association, Orlando, FL, November 2003. Case Presentations from the STICH experience at TGH.
- Rao V:** 7th Annual Toronto Heart Failure Summit, Toronto, Ontario, June 2004. LVADs...where, when and why.
- Rao V:** 23rd Annual meeting of the International Society for Heart Research, Las Vegas, Nevada, September 2003. Strategies to improve recruitment in the STICH trial.
- Rao V:** 55th Annual Meeting of the Canadian Cardiovascular Society, Toronto, Ontario, October 2003. Surgical perspective of the STICH trial.
- Scully HE:** Educational Commission for Foreign Medical Graduates, Philadelphia, Pennsylvania, April 2004. International Migration of Physicians: The Ethics of Recruiting Strategies for Recruitment, Retention and Repatriation.
- Scully HE:** The Health Technology Exchange, Toronto, Ontario, October 2003. Strategic Concept - Advisory Committee Presentation.
- Weisel RD:** Cardiac Tissue Repair, Cell Transplantation and Growth Factors International Conference, Sirmione, Italy, June 2004. A) A comparison of heart cells and bone marrow cells for cardiac regeneration after a myocardial infarction. B) Cell transplantation to prevent heart failure. C) Enhanced cell transplantation to improve angiogenesis, engraftment and matrix remodeling.
- Weisel RD:** American College of Cardiology Heart Failure Summit, Toronto, Ontario, June 2004. Cardiac regeneration by cell transplantation.
- Weisel RD:** Japan Society for Transplantation, Osaka, Japan, October 2003. Cell replacement therapy - bench to bedside.
- Weisel RD:** Heart Failure Society of America, Las Vegas, Nevada, September 2003. Cell therapy in the patient.
- Weisel RD:** Society for Thoracic Surgical Education, Big Sur, California, February 2004. Cell transplantation.
- Weisel RD:** Medical University of South Carolina, Charleston, South Carolina, September 2003. Cell transplantation to prevent heart failure.
- Weisel RD:** Gordon Research Conference on Assisted Circulation, Big Sky, Montana, September 2003. Cell-based myocardial regeneration.
- Weisel RD:** Annual Update on Cardiopulmonary Bypass Meeting, Snowmass, Colorado, March 2004. Cellular response to ischemia reperfusion: our understanding in 2004.
- Weisel RD:** Kyoto University Graduate School of Medicine, Kyoto, Japan, October 2003. Current status and future development of cell transplantation.
- Weisel RD:** American Academy of Cardiovascular Perfusion at Society of Thoracic Surgeons, San Antonio, Texas, January 2004. Myocardial preservation: then and now.
- Weisel RD:** Annual Update on Cardiopulmonary Bypass Meeting, Snowmass, Colorado, March 2004. Technology: on the cutting edge - cardiac surgery.
- Yau TM:** 21st Century Cardiac Surgical Society, Scottsdale, Arizona, February 2004. Clinical experience with first and second generation anastomotic connectors.
- Yau TM:** ISMICS, London, England, June 2004. Taking the second step: the transition from first-generation to second-generation anastomotic connectors.
- Yau TM:** Sunnybrook & Women's College Health Sciences Centre, Toronto, Ontario, March 2004. The SJM connector from endolethial function to clinical and angiographic follow-up.

## RESEARCH AND INVESTIGATIONS

### *Senior Investigator's Name Appears in Italics*

- A prospective evaluation of the St. Jude Inc., Cardiovascular Group Aortic Connector. *Yau, TM: St. Jude Medical Inc. (\$76,000 2000 - 2004).*
- Autologous tissue-engineered grafts for congenital heart surgery. *Ren-Ke Li: Canadian Institutes of Health Research (\$647,655 2003 - 2008).*
- Autologous tissue-engineered grafts for congenital heart surgery (declined). *Dr. Ren-Ke Li: Heart and Stroke Foundation of Ontario (\$229,116 2003 - 2006).*
- BARI 2D: A Trial of Revascularization and Glycemic Control in NIDDM. *Schwartz, L, Steiner G, David TE, Ralph-Edwards AC, Cusimano RJ, Yau T, Feindel CM: National Institute of Health (\$35,000,000 2000 - 2003).*
- C-Reactive Protein: A Predictor of Adverse Outcome Following CABG? *Dr. M.J. Albanna, Dr. S.J. Brister, Supervisor: The Physicians' Services Incorporated Foundation (\$20,000 2003 - 2004).*

Cell transplantation for cardiovascular disease. *Ren-Ke Li: Heart and Stroke Foundation of Ontario (Personnel Support)* (\$381,250 2001 - 2006).

Cell transplantation for diabetic cardiomyopathy. *Ren-Ke Li: Canadian Diabetes Association* (\$125,628 2002 - 2004).

Cell transplantation to improve heart function. *Ren-Ke Li: Ontario Ministry of Energy, Science and Technology* (\$150,000 2001 - 2006).

Clinical performance of the Carpentier-Edwards Perimount Magna bioprosthetic aortic valve. *Borger MA, David TE: Edwards Lifesciences* (\$50,000 2003 - 2004).

Endothelial preservation for cardiac transplantation. *Rao V: Connaught Foundation* (\$30,000 2002 - 2004).

Endothelin, perioperative ischemia and diabetes. *Richard D. Weisel, Subodh Verma: Canadian Diabetic Association* (\$70,163 2003 - 2004).

Endothelin, perioperative ischemia and diabetes. *Weisel RD, Rao V: Canadian Diabetes Association* (\$138,536 2001 - 2003).

Evaluation of EMPIRIC Programming to Improve Patient Management. *Cameron, DA, Ralph-Edwards, AC: Medtronic of Canada* (\$35,000 2003).

Evaluation of Empiric Programming to Improve Patient Management. *Dr. D. Cameron, Dr. S. Brister, Dr. A. Ralph-Edwards, Dr. R.J. Cusimano: Medtronic, Inc (Total amount is \$1,000.00 per patient)* (\$1,000 2003).

Improved Cardiac Function and Exercise Tolerance in Patients Undergoing Coronary Artery Bypass Surgery who receive a Nutritional Supplement (MyoVive). *Lee Errett, Michael A. Borger, Stephen E. Fremes, and others: Numico Inc.* (\$25,000 2003 - 2005).

Insulin cardioplegia for poor left ventricular function. *Yau TM, Weisel RD: Canadian Institutes of Health Research* (\$70,192 2001 - 2003).

Intimal Hyperplasia: Will Inhibition of Matrix Metalloproteinase Inhibit it? *Dr. G. Tang, Dr. S.J. Brister, Supervisor: The Physicians' Services Incorporated Foundation* (\$20,000 2003 - 2004).

Minimal invasive cardiac surgery: Is it safe for the brain? *Michael A. Borger: Connaught New Staff Matching Grant, University of Toronto* (\$10,000 2003 - 2005).

Myocardial transgene expression in transplanted cells. *Yau TM: Heart and Stroke Foundation of Ontario* (\$98,665 2002 - 2004).

Outcome assessment of mitral valve replacement and repair. *William S. Weintraub, Michael A. Borger and multiple other co-investigators: National Institute of Health* (\$20,000 2003 - 2005).

Pharmacokinetics of Recombinant Human Erythropoietin in Patients Undergoing Cardiac Surgery with Cardiopulmonary Bypass. *Stuart McCluskey, Ralph-Edwards AC, Yeo E, Djaiani G, Karkouti K, Fedorko L: Ortho Biotech* (\$133,000 2003).

Preservation of endothelial function following prolonged storage of cardiac allografts with shed donor blood. *Feindel CM, Rao V: Heart and Stroke Foundation of Ontario* (\$221,319 2001 - 2004).

Prevention of the progressive cardiac failure of dilated cardiomyopathy by gene-transfected cell transplantation. *Ren-Ke Li: Canadian Institute of Health Research* (\$288,697 2001 - 2004).

Protection from perioperative ischemia. *Richard D. Weisel: Heart and Stroke Foundation* (\$83,120 2003 - 2004).

Quest Trial. *Weisel RD, Rao V, Yau TM: Quest Medical, Inc.* (\$50,000 2001 - 2005).

Stem cells and restenosis: defining the new paradigm. *Richard D. Weisel, Subodh Verma, Terrence M. Yau: Heart and Stroke Foundation* (\$71,320 2003 - 2004).

Surgical treatment for ischemic heart (STICH) failure trial. *Mickleborough LL (for Canada), Multi centre trial across North America: NIH U.S.* (\$16,000,000 2001 - 2004).

The impact of continuous flow cell-saver on neurocognitive decline after cardiac surgery. *George Djaiani, Michael A. Borger, Ludwik Fedorko, Robin E.A. Green, Davy C.H. Cheng: Heart and Stroke Foundation of Canada* (\$200,000 2002 - 2004).

The PRIME (Perioperative Renal Insufficiency Management) Study: A randomised, double-blinded, placebo-controlled trial of N-Acetylcysteine for preventing renal injury after cardiac surgery. *Dr. S. Beattie, Dr. V. Rao, Dr. C. Chan, Dr. D. Wijeyesunderan, \*Dr. S. Brister (\*Safety and Monitoring Committee): Heart & Stroke Foundation of Canada* (\$202,040 2003 - 2005).

Transplant vasculopathy: The role of endothelium. *Rao V: Canadian Institutes of Health Research* (\$250,000 2003 - 2008).

Transplant vasculopathy: The role of endothelium. *Rao, V: American Association of Thoracic Surgeons, Robert E. Gross Scholarship* (\$110,000 2003 - 2005).

Vasculogenesis induced by cell transplantation. *Dr. Ren-Ke Li: Heart and Stroke Foundation of Ontario* (\$327,408 2003 - 2007).

## HONOURS RECEIVED

**Cusimano RJ:** The Sicilian Cultural Society of Canada Man of the Year, September 2003.

**Weisel RD:** Earl Bakken Scientific Achievement Award of the Society of Thoracic Surgeons, January 2004.

**Weisel RD:** Recognition Plaque by Japan Society for Transplantation, Osaka, Japan, October 2003.



## **DIVISION OF GENERAL SURGERY**

**Dr. M.S. Cattral - Associate Professor**

**Dr. D. Grant - Professor**

**Dr. R.M. Gorczynski - Professor**

**Dr. P.D. Greig - Professor**

**Dr. H.S. Himal - Associate Professor**

**Dr. A. Kapus - Associate Professor**

**Dr. B. Langer - Professor**

**Dr. W.L. Leong - Assistant Professor**

**Dr. J.C. Marshall - Professor**

**Dr. R.E. Mathews - Assistant Professor**

**Dr. J.A. McCart - Assistant Professor**

**Dr. D.R. McCready - Associate Professor**

**Dr. I.D. McGilvray - Assistant Professor**

**Dr. M. Reedijk - Assistant Professor**

**Dr. R.K. Reznick - Professor**

**Dr. L.E. Rotstein – Professor**

**Dr. O.D. Rotstein - Professor (Division Head)**

**Dr. B.R. Taylor – Professor**

**Dr. D. R. Urbach - Assistant Professor**

## **PUBLICATIONS**

**Backstein D, Agnidis Z, Regehr G, Reznick RK:** The effectiveness of video feedback in the acquisition of orthopedic technical skills. *American Journal of Surgery*: March 2004: 187: pp 427-432.

**Baker GR, Langer B:** Patient Safety in Cancer Services. In: *Strengthening the Quality of Cancer Services in Ontario* (Sullivan T, Evans W, Angus H, Hudson A, eds). CHA Press, Ottawa: 2003: pp 221-234.

**Bartlett DL, McCart JA:** Vaccinia Viral Vectors. In: *Cell and Gene Therapy* (Templeton NS, ed). Marcel Dekker Inc., New York: 2003: pp 165-180.

**Baxter N, Urbach DR:** Misclassification of hospital volume in surgical volume-outcome analyses of persons aged 65 years and older: Potential limitations of Medicare data. *Evidence-Based Surgery*: October 2003: 1: pp 49-55.

**Bull SB, Ozelik H, Pinnaduwege D, Blackstein ME, Sutherland D, Sidlofsky S, Hanna W, Qizilbash A, Tweeddale M, Fine S, Geddie W, McCready DR, Andrulis IL:** The combination of p53 mutation and neu/erbB-2 amplification is associated with poor survival in node-negative breast cancer. *Journal of Clinical Oncology*: January 2004: 22(1): pp 86-96.

**CA. Murray, DR. McCready, WL. Leong, DM. Ghazarian:** Histopathologic patterns of melanoma metastases in sentinel lymph nodes. *Journal of Clinical Pathology*: January 2004: 57: pp 64-7.

**Cattral MS, Mollinari M, Vollmer C, McGilvray I, Wei A, Walsh M, Adcock L, Marks N, Lilly L, Girgrah N, Levy GA, Greig PD, Grant DR:** Living-donor Right Hepatectomy with or without Inclusion of Middle Hepatic Vein: Comparison of morbidity and outcome in 56 patients Living-donor right hepatectomy with or without inclusion of middle hepatic vein: comparison of morbidity and outcome in 56 patients. *American Journal of Transplantation*: May 2004: pp 751-57.

**Clark DA, Foerster K, Fung L, He W, Lee L, Mendicino M, Markert UR, Gorczynski RM, Marsden PA, Levy GA:** The fgl2 prothrombinase/fibroleukin gene is required for lipopolysaccharide-triggered abortions and for normal mouse reproduction. *Molecular Human Reprod*: February 2004: 10(2): pp 99-108.

**Cleary S, Gryfe R, Guindi M, Greig P, Smith L, Mackenzie R, Strasberg S, Hanna S, Taylor B, Langer B, Gallinger S:** Prognostic factors in resected pancreatic adenocarcinoma: Analysis of actual 5-year survivors. *Journal of the American College of Surgeons*: January 2004: 198: pp 722-731.

- Cook D, Rucker G, Marshall J, Sjokvist P, Dodek P, Griffith L, Freitag A, Varon J, Bradley C, Levy M, Finfer S, Hamielec C, McMullin J, Weaver B, Walter S, Guyatt G:** Withdrawal of mechanical ventilation in anticipation of death in the intensive care unit. *New England Journal of Medicine*: September 2003: 349: pp 1123-1132.
- Clark DA, Keil A, Chen Z, Markert U, Manuel J, Gorczynski RM:** Placental trophoblast from successful human pregnancies expresses the tolerance signaling molecule, CD200 (OX-2). *Journal of American Reproduction*: September 2003: 50(3): pp 187-95.
- Dellinger RP, Carlet JM, Masur H, Gerlach H, Calandra T, Cohen J, Gea-Banacloche J, Keh D, Marshall JC, Parker MM, Zimmerman JL, Vincent J-L, Levy MM:** For the Surviving Sepsis Campaign Management Guidelines Committee: Surviving Sepsis Campaign guidelines for management of severe sepsis and septic shock. *Critical Care Medicine*: March 2004: 32: pp 858-872.
- Di Ciano-Oliveira C, Sirokmany G, Szaszi K, Arthur WT, Masszi A, Peterson M, Rotstein OD, Kapus A:** Hyperosmotic stress activates Rho: Differential involvement in Rho kinase-dependent MLC phosphorylation and NKCC activation. *American Journal of Physiol Cell Physiol*: September 2003: 285: pp C555-C566.
- Dixon E, Sahajpal A, Vollmer CM, McGilvray I, Grant DG, Taylor B, Cattral M, Gallinger S., Greig PD:** Multipurpose extended subcostal incision for hepatobiliary surgery. *The American Journal of Surgery*: January 2004: 187: pp 128.
- Easson AM, McCready DR:** Management of local recurrence of breast cancer. *Expert Review Anticancer Therapy*: April 2004: 4(2): pp 219-226.
- Grober E, Hamstra S, Wanzel K, Reznick RK, Sidhu R, Matsumoto E, Jarvi K:** Laboratory-Based Training in Urologic Microsurgery with Bench Model Simulators: A Randomized Controlled Trial Evaluating the Durability of Technical Skill. *Journal of Urology*: May 2004: 172: pp 378-381.
- Grober E, Hamstra S, Wanzel K, Reznick RK, Sidhu R, Matsumoto E, Jarvi K:** The Educational Impact of Bench Model Fidelity on the Acquisition of Technical Skill - The Use of Clinically Relevant Outcome Measures. *Annals of Surgery*: June 2004: 240(2) pp 374 – 81.
- Gurevich M, Devins GM, Wilson C, McCready DR, Marmar CR, Rodin GM:** Stress response syndromes in women undergoing mammography: Comparison of patients with and without a previous cancer diagnosis. *Psychosomatic Medicine*: September 2003: 66(1): pp 104-112.
- Guyatt G, Cook D, Weaver B, Rucker G, Dodek P, Sjokvist P, Hamielec C, Puksa S, Marshall J, Foster D, Levy M, Varon J, Thorpe K, Fisher M, Walter S:** For the Level of Care Investigators and the Canadian Critical Care Trials Group: Influence of perceived functional and employment status on cardiopulmonary resuscitation directives. *Journal of Critical Care*: September 2003: 18: pp 133-41.
- Haigh IP, DiFronzo LA, McCready DR:** Optimal excision margins for primary cutaneous melanoma: a systemic review and meta-analysis. *Canadian Journal of Surgery*: December 2003: 46(6): pp 419-426.
- Hu J, Chen Z, Gorczynski CP, Gorczynski LY, Kai Y, LeeL, Manuel J, Gorczynski RM:** Sleep-deprived mice show altered cytokine production manifest by perturbations in serum IL-1ra, TNF $\alpha$  and IL-6 levels. *Brain, Behaviour and Immunity*: December 2003: 17(6): pp 498-504.
- Jenkinson J, Woolridge N, Wilson-Pauwels L, McCready DR, Brierley M:** Development and evaluation of the sentinel node biopsy continuing professional development course. *Journal of Biocommunications*: April 2004: 29(4): pp 5-10.
- Jia SH, Li Y, Parodo J, Kapus A, Fan L, Rotstein OD, Marshall JC:** Pre-B cell colony-enhancing factor inhibits neutrophil apoptosis in experimental inflammation and clinical sepsis. *Journal of Clinical Investigation*: May 2004: 113: pp 1318-1327.
- Kaila B, Grant D, Pettigrew N, Greenberg H, Bernstein CN:** Crohn's disease recurrence in a small bowel transplant. *American Journal of Gastroenterology*: January 2004: 99: pp 150-162.
- Khadaroo KG, Kapus A, Powers KA, Cybulsky MI, Marshall JC, Rotstein OD:** Oxidative stress reprograms LPS signaling via Src kinase-dependent pathway in RAW 264.7 macrophage cell line. *Journal of Biological Chemistry*: August 2003: 278: pp 47834-841.
- Khadaroo RG, Parodo J, Powers KA, Kapus A, Marshall JC, Rotstein OD:** Oxidant-induced priming of the macrophage involves activation of p38 mitogen-activated protein kinase through an Src dependent pathway. *Surgery*: August 2003: 134: pp 242-246.
- Kumar N, Atkison P, Fortier MV, Grant DR, Wall WJ:** Cavoportal transposition for portal vein thrombosis in a pediatric living-related liver transplantation. *Liver Transplantation*: August 2003: 9: pp 874-6.
- Marsden PA, Ning Q, Fung LS, Luo X, Chen Y, Mendicino M, Ghanekar A, Scott JA, Miller T, Chan CW, Chan MW, He W, Gorczynski RM, Grant DR, Clark DA, Phillips MJ, Levy GA:** The Fgl2/fibroleukin prothrombinase contributes to immunologically mediated thrombosis in experimental and human viral hepatitis. *Journal of Clinical Investigation*: July 2003: 112: pp 58-66.
- Marshall JC:** Measurements in the intensive care unit: what do they mean? *Critical Care*: November 2003: 7: pp 415-416.
- Marshall JC, Innes M:** ICU Management of Intra-abdominal Infection. *Critical Care Medicine*: August 2003: 31: pp 2228-2237.
- Marshall, JC:** Transfusion trigger: when to transfuse? *Critical Care*: June 2004: 8(Suppl 2): pp S31-S33.



**Masszi A, Di Ciano C, Sirokmany G, Arthur WT, Rotstein OD, Wang J, McCulloch CA, Rosivall L, Mucsi I, Kapus A:** Central role for Rho in TGF-(beta)1-induced smooth muscle actin expression during epithelial-mesenchymal transition. *American Journal of Physiology and Renal Physiology*: December 2003: 284: pp F911-F924.

**McCready DR:** Quality Assurance: The value of data and the will to improve. *Annals of Surgical Oncology*: October 2003: 10(8): pp 837-838.

**McCready DR :** Motion restriction and axillary web syndrome after sentinel node biopsy and axillary clearance in breast cancer. *Breast Diseases: A Year Book Quarterly*: October 2003: 14(3): pp 315-316.

**McCready DR :** T1a breast carcinoma and the role of axillary dissection. *Breast Diseases: A Year Book Quarterly*: April 2004: 15(1): pp 61-62.

**McCready DR, Aronson K, Chu W, Fan W, Vesprini D, Narod SA:** Breast tissue organochlorine levels and metabolic genotypes in relation to breast cancer risk. *Cancer Causes and Control*: February 2004: 15: pp 399-418.

**McCready DR, Yong WS, Ng AKT, Miller N, Done S, Youngson B:** Influence of the new AJCC breast cancer staging system on sentinel node positivity and false negative rates. *Journal of the National Cancer Institute*: June 2004: 96(11): pp 873-875.

**Midha R, Munro CA, Ramakrishna V, Matsuyama T, Gorczynski RM:** Chemokine expression in nerve allografts. *Neurosurgery*. *Neurosurgery*: June 2004: 54(6): pp 1472-8.

**Murray C, McCready DR, Leong W, Ghazarian D:** Histopathologic patterns of melanoma metastases in sentinel lymph nodes. *Journal of Clinical Pathology*: December 2003: 57(1): pp 64-67.

**O'Rourke RW, Khajanchee YS, Urbach DR, Lee NN, Lockhart B, Hansen PD, Swanstrom LL:** Extended transmediastinal dissection: An alternative to gastropasty for short esophagus. *Archives of Surgery*: July 2003: 138: pp 735-740.

**Marsden PA, Qin N, Fun LS, Luo X, Chen Y, Mendicino M, Ghanekar A, Scott JA, Miller T, Chan CWY, Chan MWC, He W, Gorczynski RM, Grant DR, Clark DA, Phillips MJ, Levy GA:** The Fgl2/fibroleukin prothrombinase contributes to immunologically mediated thrombosis in experimental and human viral hepatitis. *Journal of Clinical Investigation*: July 2003: 112(1): pp 58-66.

**Powers KA, Kapus A, Khadaroo R, He R, Marshall JC, Lindsay TF, Rotstein OD:** Twenty-five percent albumin prevents lung injury following shock/resuscitation. *Critical Care Medicine*: September 2003: 31: pp 2355-2363.

**Powers KA, Woo J, Khadaroo RG, Papia G, Kapus A, Rotstein OD:** Hypertonic resuscitation of hemorrhagic shock upregulates the anti-inflammatory response by alveolar macrophages. *Surgery*: July 2003: 134: pp 312-318.

**Gorczynski RM, Chen Z, Kai Y, Wong S, Lee L:** Induction of tolerance-inducing antigen-presenting cells in bone marrow cultures in vitro using mAbs to CD200R. *Transplantation*: April 2004: 77(8): pp 1138-44.

**Gorczynski R.:** State of the art in 2003, and prospects for the future. *Advocate* 2003. *Transplantation*: November 2003: 10(2): pp 5.

**Gorczynski R, Chen Z, Kai Y, Lee L, Nachman J, Wong S, Marsden P:** CD200 is a ligand for all members of the CD200R family of immunoregulatory molecules. *Journal of Immunology*: April 2004: 172: pp 7744-49.

**Gorczynski R., Stanley J.:** *Clinical Immunology: An Introductory Text (Vademecum)*: 2003. Book.

**Rocker G, Cook D, Sjkovist P, Weaver B, Finfer S, McDonald E, Marshall J, Kirby A, Levy M, Dodek P, Heyland D, Guyatt G:** For the Canadian Critical Care Trials Group: Clinician predictions of intensive care unit mortality. *Critical Care Medicine*: May 2004: 32: pp 1149-1154.

**Rotstein OD:** Antioxidant therapy in critical illness. *Critical Care Medicine*: February 2004: 32: pp 1-2.

**Rotstein OD:** Modeling the "Two-hit" hypothesis for evaluating strategies to prevent organ injury following shock/resuscitation. *Journal of Trauma*: July 2003: 54: pp S203-S206.

**Rotstein OD:** Reoperation after source control surgery for intraabdominal infection. In: *Source Control: A Guide to the Management of Surgical Infections* (Schein M, Marshall JC, eds). Springer, Berlin Heidelberg New York: 2003: pp 300-308.

**Sekine Y, Waddell TK, Matte-Martyn A, Pierre AF, de Perrot M, Fischer S, Marshall J, Granton J, Hutcheon MA, Keshavjee S:** Risk quantification of early outcome after lung transplantation: Donor, recipient, operative, and post-transplant parameters. *Journal of Heart Lung Transplantation*: January 2004: 23: pp 96-104.

**Sharpe MD, Ghent C, Grant D, Horbay GL, McDougal J, Colby W:** Efficacy and safety of itraconazole for fungal infections after orthotopic liver transplantation: a prospective, randomized, double-blind study. *Transplantation*: September 2003: 27: pp 977-83.

**Sidhu RS, Tompa D, Jang RW, Grober ED, Johnston KW, Reznick RK, Hamstra SJ:** Interpretation of three-dimensional structure from two-dimensional endovascular images: Implications for educators in vascular surgery. *Journal of Vascular Surgery*: May 2004: 39(6): pp 1305-1311.

**Sima H, Gorczynski RM:** MD-1 expression regulates direct and indirect allorecognition. *Tissue Antigens*: February 2004: 62(2): pp 132-41.

**Smee SM, Dauphinee WD, Blackmore DE, Rothman AI, Reznick RK, Des Marchais J:** A Sequenced OSCE for Licensure: Administrative Issues, Results, and Myths. *Advances in Health Sciences Education*: September 2003: 8 (3): pp 223-236.

**Urbach DR:** In The Literature: Perioperative hyperoxia and the risk of surgical site infection. *Canadian Medical Association Journal*: May 2004: 170: pp 1671.

**Urbach DR, Baxter NN:** Does it matter what a hospital is “high volume” for? Specificity of hospital volume-outcome associations for surgical procedures: analysis of administrative data. *British Medical Journal*: March 2004: 328: pp 737-740.

**Urbach DR, Ungar WJ, Rabeneck L:** Whither surgery for gastroesophageal reflux disease? *Canadian Medical Association Journal*: January 2004: 170: pp 219-221.

**Wanzel KR, Hamstra SJ, Caminiti MF, Anastakis DJ, Grober ED, Reznick RK:** Visual-spatial ability correlates with efficiency of hand motion and successful surgical performance. *Surgery*: November 2003: 134(5): pp 750-757.

**Wright FC, Walker J, Law CHL, McCready DR:** Outcomes after localized axillary node recurrence in breast cancer. *Annals of Surgical Oncology*: November 2003: 10(9): pp 1054-1058.

**Wu HS, Zhang JX, Wang L, Tian Y, Wang H, Rotstein OD:** Toll-like receptor 4 involvement in hepatic ischemia/reperfusion injury in mice. *Hepatobiliary Pancreatic Dis. Int*: March 2004: 3: pp 250-253.

**Zhong R, Tucker J, Zhang Z, Wall W, Grant D, Quan D, Garcia B, Gao ZH, Asfar S, Sharpe M, Gelb A, Bailey M, Stiller C:** The long-term survival of baboon-to-monkey kidney and liver xenografts. *Xenotransplantation*: September 2003: 10: pp 398-409.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Cattral MS:** Niagara Health System, Niagara-on-the-Lake, Ontario, April 2004. Beta-cell replacement therapy for type 1 diabetes mellitus.

**Cattral MS:** World Congress of the International Hepato-Pancreato-Biliary Association, Washington District of Columbia, June 2004. Living-donor Liver Transplantation: Bile Duct Drainage.

**Cattral MS:** Medical Grand Rounds, Department of Medicine, Queens University, Kingston, Ontario, February 2004. Visiting Professor, Current Status of Pancreas Transplantation.

**Cattral MS:** Department of Nephrology, McMaster University, Hamilton, Ontario, February 2004. A). Visiting Professor, Pancreas Transplantation Update. B). Visiting Professor: Current Status of Pancreas Transplantation.

**Cattral MS:** Multiorgan Transplantation Program, London, Ontario, December 2003. Visiting Professor: Current Status of Pancreas Transplantation.

**Cattral MS:** University of Florida, Gainesville, Florida, December 2003. Visiting Professor: Living-donor Liver Transplantation: The spring of hope?

**Urbach DR:** Canadian Surgical Forum, Vancouver, British Columbia, September 2003. Laparoscopic Nissen Fundoplication: Patient Evaluation.

**Urbach DR :** Society of American Gastrointestinal Endoscopic Surgeons Advanced Foregut Surgery Course, Cincinnati, Ohio, April 2004. Pathophysiology and epidemiology of gastroesophageal reflux disease.

**Urbach DR:** American College of Surgeons Postgraduate Course, Chicago, Illinois, October 2003. Using Administrative Data to Assess Outcome: Challenges and Limitations.

**Gorczynski RM:** 7th. Basic Symp. Of Transplant Soc, Bern, Switzerland, August 2003. Role of CD200/CD200R signaling in allograft tolerance.

**Marshall JC:** 6th World Congress on Trauma, Shock, Inflammation, and Sepsis, Munich, Germany, March 2004. 1. ICU monitoring: The PIRO concept. 2. The time course of mediator production in gram positive infection. 3. Apoptosis in the lung in trauma and sepsis. 4. Surviving Sepsis Campaign guidelines: Source control. 5. Organ dysfunction as an outcome in sepsis. 6. TNF as a therapeutic target in sepsis.

**Marshall JC:** ANZICS New South Wales Regional Critical Care Educational Meeting, Terrigal, NSW, Australia, March 2004. 1. Selective decontamination of the digestive tract. 2. Asking the right questions in sepsis trials. 3. Empiric antibiotics: The case against.

**Marshall JC:** 1st International Congress of the German Sepsis Society, Weimar, Germany, September 2003. 1. Stratification of Patients with sepsis: The PIRO concept. 2. Roundtable report: Improving the design of clinical trials in sepsis. 3. SIRS: An outdated concept. 4. TNF-directed therapies.

**Marshall JC:** Peruvian Society of Intensive Care Medicine, 7th Annual Meeting, Lima, Peru, November 2003. 1. The cellular biology of critical illness. 2. The gut-liver axis in critical illness. 3. Evolving concepts: Sepsis, SIRS, and PIRO. 4. Empiric antibiotics: What is the evidence? 5. Principles of source control in life-threatening infection.



**Marshall JC:** 24th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 2004. 1. Do we have relevant animal models in sepsis studies? 2. Empiric antibiotics are harmful. 3. Surgical treatment of severe pancreatitis. 4. Intra-abdominal infections - non-antibiotic strategies. 5. Cell biology for the uninitiated. 6. Measuring outcomes in critical care. 7. PIRO ... What is next?

**Marshall JC:** 24th Annual Meeting, Surgical Infection Society, Indianapolis, Indiana, April 2004. Early management of severe sepsis and septic shock.

**Marshall JC:** CIHR Workshop: Sepsis Research from Bench to Bedside, Mount Tremblant, Quebec, September 2003. 1. Mechanisms of delayed neutrophil apoptosis in sepsis. 2. Outcome measures for clinical research in sepsis.

**Marshall JC:** 16th Annual Congress; European Society of Intensive Care Medicine, Amsterdam, October 2003. 1. Post graduate course on systemic inflammation and sepsis: Predisposition and Co-morbidities. 2. Despite quality improvement programs, are we doing better? Multiple organ failure and sepsis. 3. Recovery after severe sepsis.

**Marshall JC:** American College of Surgeons 89th Annual Clinical Congress, Chicago, Illinois, October 2003. 1. Symposium on treating difficult infections in surgical patients: New definitions of sepsis. 2. Surgical Forum Critical Care II. Moderator 3. How do intra-abdominal infections cause mortality?

**Marshall JC:** 33rd Critical Care Congress, Society of Critical Care Medicine, Orlando, Florida, February 2004. 1. The ISF Debates: Sepsis is good for the patient. 2. Defining and classifying sepsis. 3. Pro-Con Debate: Early tracheostomy- Con. 4. The role of delayed neutrophil apoptosis in critical illness. 5. Plenary Address. Sepsis: We have met the enemy '85.

**Marshall JC:** XV Congreso Latinoamericano de Cirugia, Panama City, Panama, July 2003. 1. The multiple organ dysfunction syndrome. 2. Infection in the critically ill patient.

**Marshall JC:** Sepsis research: The clinical-industry interface, Noosa, Australia, March 2004. 6th ANZICS Clinical Trials Group Meeting.

**Marshall JC:** Canadian Surgical Forum, Vancouver, BC, September 2003. Antibiotic prophylaxis in severe acute pancreatitis: What is the evidence?

**Marshall JC:** Shock Society 27th Annual Conference on Shock, Halifax, Nova Scotia, June 2004. Corticosteroids: An evolving story.

**Marshall JC:** International Consensus Conference on Definitions of Infection, Coral Gables, November 2003. Definitions for intra-abdominal infection.

**Marshall JC:** Eisai CABG Investigators' Meeting, Versailles, France, February 2004. Measuring organ dysfunction in clinical trials.

**Marshall JC:** Shock Society/International Sepsis Forum Symposium on the Translational Biology of Acute Illness, Oak Island, Nova Scotia, June 2004. Pre-clinical studies of G-CSF.

**Marshall JC:** International Consensus Conference on Severe Acute Pancreatitis, Washington, DC, April 2004. Sepsis therapies: Revisiting their role in pancreatitis.

**Marshall JC:** American Association for Clinical Chemistry Annual Meeting, Philadelphia, Pennsylvania, July 2003. Sepsis: Clinical and pathophysiologic features.

**Marshall JC:** American Thoracic Society 100th International Conference, Orlando, Florida, May 2004. Targeting toll-like receptors in sepsis.

**Marshall JC:** Polish Sepsis Group, Warsaw, Poland, September 2003. The treatment of severe sepsis - current status and future prospects.

**Marshall JC:** Transfusion Alternatives in Medicine and Surgery, Jersey Shore University Medical Center, New Jersey, September 2003. Transfusion management in the critical care unit.

**Reznick RK:** Society of Surgical Chairs, Chicago, Illinois, October 2003. Assessment of Technical Skills.

**Reznick RK:** Keynote Speaker, Plenary Session 3, Teaching and Learning in the Healthcare Professions, Association for Medical Education in Europe, Berne, Switzerland, September 2003. Born to be good, train to be great.

**Reznick RK:** Shanghai Second Medical University, Shanghai, China, January 2004. Born to be good, train to be great.

**Reznick RK:** University of Hong Kong, Hong Kong Surgical Forum, Hong Kong, January 2004. Halsted is Getting Old.

**Reznick RK:** University of Hong Kong, Hong Kong Surgical Forum, Hong Kong, January 2004. It is more than just what you say.

**Reznick RK:** American College of Surgeons Medical Student Section, Chicago, Illinois, October 2003. Simulations in Surgical Teaching.

**Reznick RK:** The Royal College of Surgeons of Edinburgh, Edinburgh, Scotland, November 2003. Surgical Teaching: Lessons from a Goalie.



**Reznick RK:** Norman Nigro Research Lectureship, American Society of Colon and Rectal Surgeons Annual Meeting, Dallas, Texas, May 2004. The Anatomy of a Surgeon.

**Reznick RK:** American College of Surgeons Plenary Session, Chicago, Illinois, October 2003. The Challenge of Operative Teaching: Lessons from a Goalie.

**Reznick RK:** Canadian Association of University Surgeons Symposium at the Canadian Surgery Forum, Vancouver, British Columbia, September 2003. The teaching surgeon needs time to teach.

**Reznick RK:** Association of Surgeons of Great Britain and Ireland Annual Scientific Meeting, Harrogate, United Kingdom, April 2004. The times they are a'changin': Where have I heard that before and why didn't I listen?

**Reznick RK:** American College of Surgeons Blue Ribbon Committee of the American Surgical Association, Chicago, Illinois, January 2004. The times they are a'changin': Where have I heard that before and why didn't I listen?

**Reznick RK:** Oklahoma State University LeRoy Heinrichs Lectureship on Simulation in Surgical Education, Oklahoma City, Oklahoma, February 2004. The times they are a'changin': Where have I heard that before and why didn't I listen?

**Reznick RK:** Southern Illinois University Surgical Grand Rounds Visiting Professor, Springfield, Illinois, October 2003. The times they are a'changin': Where have I heard that before and why didn't I listen?

**Reznick RK:** Michigan State University Visiting Professor, East Lansing, Michigan, February 2004. Use of Simulation Technology in Resident Education.

## RESEARCH AND INVESTIGATIONS

### *Senior Investigator's Name Appears in Italics*

A double-blind, placebo-controlled study of E5564, a lipid antagonist, administered by twice daily intravenous infusions in patients with severe sepsis. *Marshall, JC: Eisai Research Institute of Boston Inc* (\$60,000 2003 - 2004).

A measure of acute health status following abdominal surgery. *Urbach DR, Streiner DI, Herold-McIlroy J: Physicians' Services Incorporated Foundation* (\$133,000 2001 - 2003).

A multicentre comparison of kidney-only vs. kidney-pancreas transplantation. *McGilvray I, Cattral MS, Ross, H: Fujisawa* (\$50,000 2004).

A multinational observational study of procalcitonin in ICU patients with presumed or confirmed pneumonia and requiring mechanical ventilation using the Lumitest PCT assay. *Marshall JC: BRAHMS Diagnostica LLC* (\$36,000 2003 - 2004).

A Prospective Observational Study of Acute Major Organ System Failure in Septic Patients. *Marshall JC: GlaxoSmithKline* (\$12,000 2003).

A randomized double-blind placebo-controlled trial of prophylactic heparin in patients with severe sepsis and higher disease severity who are undergoing treatment with drotrecogin alpha (activated). *Marshall JC: Eli Lilly & Co.* (\$80,000 2003 - 2004).

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 B-32* (\$200,000 2001 - 2003).

Albumin as an immunomodulatory agent in hemorrhagic shock: Studies in a model of post-shock lung injury. *Rotstein OD: Plasma Protein Therapeutic Association (PPTA - USA)* (\$89,540 2000 - 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. *Michael Reedijk: James Ewing Oncology Fellowship Award for Basic Science Society of Surgical Oncology* (\$40,000 2004).

CCURE: Critical Care from Cell to Society. *Arthur S. Slutsky, Cook D, Martin P, Baker A, Stewart D, Sibbald W, Marshall J, Downey G, Hawryluck L, Marsden P: Canadian Foundation for Innovation (CFI)* (\$4,600,000 2002 - 2007).

CD200: CD200R regulation of osteoclastogenesis. *R. Gorczynski: Space Life Science* (\$200,000 2003 - 2006).

Cellular mechanisms of lipopolysaccharide-induced lung injury following shock. *Rotstein OD: Canadian Institutes of Health Research - Renewal* (\$451,715 2000 - 2005).

Clinically Important DVTs in the ICU Survey. *Cook, DJ, Co-Investigators: Crowther M, Meade M, Guyatt G, Geerts W, Marshall J: Leo Pharma* (\$15,000 2002 - 2003).

Comprehensive multidisciplinary clinical database for breast cancer patients. *DR. McCready, WL. Leong, B. Fallos, L. Fairclough: Translational research committee of Breast Cancer Research Institute* (\$250,000 2003).



- Ductoscopy of breast diseases. *WL, Leong, AM, Easson, DM. McCready: Nelson Arthur Hyland Foundation* (\$25,000 2004 - 2007).
- Ductoscopy of breast diseases. *WL, Leong, AM, Easson, DM. McCready: Princess Margaret Hospital Women's Committee* (\$25,000 2004 - 2007).
- Ductoscopy of breast diseases. *WL, Leong, AM, Easson, DM. McCready: Den Haag Breast Cancer Foundation* (\$128,000 2004 - 2007).
- Efficacy and safety of drotrecogin alpha activated in adult patients with early severe sepsis who are at lower risk of death. *Marshall JC: Eli Lilly & Co.* (\$50,000 2003 - 2004).
- Endotoxin Measurements in Early Sepsis Patients using Endotoxin Activity Assay (EAA) and Limulus Amebocyte Lysate (LAL) Assay: Method Comparison Study. *John C. Marshall: GlaxoSmithKline* (\$113,700 2003).
- Evaluative Research in Surgical Procedures and New Health Technologies: Ensuring Quality, Access and Sustainability for Surgical Care in Ontario. *Urbach DR: Ontario Ministry of Health and Long-Term Care, Health Research Personnel Development Program* (\$250,000 2002 - 2007).
- Factors Predictive of EBV Lymphoproliferation following Organ Transplantation: Beyond Viral Load. *Upton Allen, Hebert D, Weitzman S, Tellier R, Ngan B., Grant D, Humar A, Stephens D: Canadian Institutes of Health Research* (\$70,000 2003 - 2006).
- FK 778 Proof of concept study in liver transplantation (anticipated enrolment of 10 patients). *Grant D (Senior Site Investigator)*, This is a multicenter European and Canadian trial: *Fujisawa* (\$160,000 2003 - 2004).
- Genetic profiling of selective ductoscopic lavage of breast cancer. *WL, Leong, Woodgett JR: Canadian Breast Cancer Research Alliance* (\$46,375 2003 - 2005).
- Genetic variation in breast cancer tumour. *Leong WL, Woodgett, Susan Done: Terry Fox Program Grant* (\$60,000 2003 - 2004).
- Identification of molecular alterations leading to malignancy in ductoscopically procured pure mammary epithelial cell populations. *Done S, Leong WL, MacGregor P, Boerner S, Pintilie M, Miller N, Youngson B, McCready DR: Ontario Cancer Research Network* (\$543,015 2004 - 2007).
- Identifying novel pathogenic pathways in hepatitis C viral infection of the liver. *Edwards A, Heathcote J, McGilvray I, Levy G: Canadian Institute of Health Research* (\$600,000 2003 - 2005).
- Immunological changes associated with aging. *Gorzynski R: CLP Research* (\$300,000 2001 - 2005).
- Immunomodulation of pancreatic islets by adenoviral gene transfer of CD200. *Cattral, Mark: Public Health Service National Institute of Health* (\$150,000 2002 - 2004).
- Improving care and research in pancreas cancer in Ontario - A population-based study. *Gallinger S, Urbach DR, Cotterchio M, Holowaty E, Moore M: Ontario Cancer Research Network* (\$371,860 2002 - 2005).
- Interaction of OX2 with its receptor controls organ rejection. *Gorzynski R: Roche Research Foundation* (\$300,000 2001 - 2004).
- Making medical meaning: Cognitive, social and educational implications of the computerized patient record. *Kushniruk A, Lingard LA, Reznick RK, Smith C: Social Sciences and Humanities Research Council of Canada* (\$106,640 2002 - 2005).
- Measuring dysphagia in patients with achalasia. *Urbach DR, Martino R, Diamant N: Canadian Association of General Surgeons (CAGS)* (\$10,000 2002 - 2003).
- Mechanism of Tolerance Induction in Humans. *Cattral M, Gorzynski R, W.P. Min: PSI* (\$146,000 2001 - 2003).
- New measures of quantifying soft tissue fibrosis. *Davis AM, Bell R, Lee P, O'Sullivan B, Hill R, Levin W, Wunder J, Inman R, McCready DR: Canadian Institute of Health Research* (\$298,263 2003 - 2006).
- Novel mechanisms of prolonged neutrophil survival in human sepsis: A bedside-to-bench approach. *Marshall JC: Canadian Institutes of Health Research* (\$543,565 2003 - 2008).
- Perception of Three-Dimensional Structure from Two-Dimensional Images in Endovascular Training. *Sidhu RS, Hamstra SJ, Jang RW, Reznick RK, Johnston KW: Physician Services Incorporated* (\$20,000 2002 - 2003).
- Perioperative ischemic evaluation study (POISE study). *Yang H, Multidisciplinary Research Group (Canada-wide) – Rotstein OD (co-investigator): Canadian Institutes of Health Research* (\$5,306,074 2001 - 2006).
- Phase I/II trial of celecoxib with preoperative chemoradiation for resectable rectal cancer with in vivo analysis of celecoxib effector pathways. *Kim, J, Brierley J, Ward I, Headley D, Tsao M, Cummings B, Ringash J, Catton P, Wong R, Swallow C, Easson A, Siu L, Yi Q: Ontario Cancer Research Network* (\$33,033 2003 - 2006).
- Posttraumatic stress following the diagnosis of breast cancer. *Rodin GM, Devins, GM, Marmar, CR, McCready DR, Jones JM, Clark P: Canadian Breast Cancer Research Initiative* (\$434,210 2000 - 2003).
- Preclinical assessment of vaccinia virus for cancer gene therapy and functional tumour imaging. *McCart JA, Reilly R: Ontario Cancer Research Network* (\$451,538 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).

Prevention of Delayed Cardiac Xenograft Rejection by Modulation of the Potent FGL2 Prothrombinase Gene. *Grant DR, Gorczynski R, Levy G: Heart & Stroke Foundation of Ontario* (\$215,158 2002 - 2005).

Protocol M67012 - Evaluation of Renal Function in Liver Transplant Recipients Receiving Daclizumab (Zenapax) and Mycophenolate Mofetil (Cellcept, MMF) and a Delayed Lower Dose of Tacrolimus vs. a Standard Dose Tacrolimus-based Regimen. *Greig, P: Hoffmann LaRoche* (\$184,000 2002 - 2003).

Randomized trial of post-mastectomy radiotherapy in stage II breast cancer in women with one to three positive axillary nodes. *NCIC CTG Chairs, McCready DR, Whelan TJ: National Cancer Institute of Canada* (\$5,000 2002 - 2003).

Role of CD200: CD200r interactions in immuno-tolerance. *Gorczyński R: Canadian Institutes of Health Research (CIHR)* (\$550,000 2001 - 2006).

Team Talk: An intervention to structure information sharing and promote patient safety in the operating room. *Lingard LA, Regehr G, Baker R, Orser B, Doran D, Reznick RK, Grober E: Canadian Institutes of Health Research* (\$124,918 2002 - 2004).

The AATICC Trial: Appropriate antimicrobial therapy in critical care - a pilot study. *Marshall JC, Aarts MA: Physician's Services Incorporated Foundation* (\$82,500 2002 - 2004).

The effect of increased cholecystectomy use on the incidence of acute complications of gallbladder disease. *Urbach DR, Austin P: Surgical Infection Society* (\$120,000 2002 - 2004).

The effects of anaesthetics on fine needle aspiration biopsy (FNAB)-based *in vivo* breast cancer gene profiling. *Leong WL, Kulkarni S, Boerner S. Done, S, Macgregor P, Woodgett JR: Genome Canada* (\$39,440 2004).

The genomics of hepatocellular carcinoma: Identifying therapeutic targets and avenues for prevention. *McGilvray I, Edwards A, Grant D, Heathcote J, Gallinger S: Ontario Cancer Research Network* (\$689,000 2004 - 2007).

The Molecular Mechanism of Organ Injury After Liver Transplantation: Potential Strategies for Prevention. *McGilvray I: Physician Services Incorporated Grant* (\$160,000 2003 - 2004).

The molecular mechanisms of graft injury after liver and bowel transplantation:

a proposal to use microarray analysis to identify targets for novel therapies. *Grant D, McGilvray I, Edwards A, Rotstein O: Fujisawa Canada* (\$600,000 2003 - 2007).

The Toronto SARS Research Initiative. *Loeb M, Levy G, Kelvin D, Low D, McGilvray I: Canadian Institute of Health Research* (\$500,000 2003 - 2004).

Toronto Hospital/Ontario Cancer Institute centralized flow cytometry facility. *Julius MH, Rotstein OD: Medical Research Council of Canada* (\$641,895 1999 - 2004).

## HONOURS RECEIVED

**Marshall JC:** Undergraduate Teaching Award, Institute of Medical Sciences, University of Toronto, May 2004.

**Reedijk M:** James Ewing Oncology Fellowship Award for Basic Research, January 2004.

**Reedijk M:** Society of Surgical Oncology Travel Grant, March 2004.

**Urbach DR:** Bernard Langer Surgeon Scientist Award. May 2004.

**Urbach DR:** Wightman-Berris Academy Award for Individual Teaching Excellence, May 2004.



## **DIVISION OF NEUROSURGERY**

**Dr. M. Bernstein – Professor**

**Dr. K.D. Davis - Associate Professor**

**Dr. E. M. Massicotte - Assistant Professor**

**Dr. M.G. Fehlings - Professor**

**Dr. F. Gentili - Associate Professor**

**Dr. A. Guha - Professor**

**Dr. W.D. Hutchison - Assistant Professor**

**Dr. J. H. Eubanks - Associate Professor**

**Dr. A. Krassioukov - Assistant Professor**

**Dr. A.M. Lozano - Professor**

**Dr. J. Saint-Cyr - Professor**

**Dr. M. Tymianski - Associate Professor**

**Dr. M.C. Wallace – Professor (Division Head)**

## **PUBLICATIONS**

**Aarts M, Arundine M, Tymianski M:** Novel concepts in excitotoxic neurodegeneration after stroke. Invited Review. *Expert Reviews in Molecular Medicine*: December 2003: 5: pp 1-15.

**Aarts M, Iihara K, Wei W, Xiong Z, Arundine M, Cerwinski W, MacDonald JF, Tymianski M:** A Key Role for TRPM7 Channels in Anoxic Neuronal Death. *Cell* 2003: December 2003: 115 (7): pp 863-77.

**Aarts M, Tymianski M:** Molecular Mechanisms Underlying Specificity of Excitotoxic Signaling in Neurons. *Current Molecular Medicine*: December 2003: 4: pp 133-143.

**Aarts M, Tymianski M:** Peptide action in stroke therapy. *Expert Opin Biol Ther* 2003: October 2003: Oct 3 (7): pp 1093-104.

**Abosch A, Kapur S, Lang AE, Hussey D, Sime E, Miyasaki J, Houle S, Lozano AM:** Stimulation of the subthalamic nucleus in Parkinson's disease does not produce striatal dopamine release. *Neurosurgery*: November 2003: 53(5): pp 1095-1102.

**Abosch, A, Hodaie, M, Davis KD, Lozano AM, Dostrovsky JO:** Microelectrode recordings in the cingulate gyrus and the anterior thalamus. In: *Microelectrode Recordings in Movement Disorder Surgery* (Z. Israel and K. Burchiel, ed). Thieme Medical Publishers Inc, New York: 2004: pp 90-99.

**Arundine M, Chopra GK, Wrong AW, Lei S, Aarts, M, MacDonald JF, Tymianski Michael:** Enhanced Vulnerability to NMDA Toxicity in Sublethal Traumatic Neuronal Injury In-Vitro. *Journal of Neurotrauma*: December 2003: 20(12): pp 1377-95.

**Arundine M, Tymianski M:** Molecular mechanisms of calcium-dependent neurodegeneration in excitotoxicity. *Cell Calcium*: October 2003: 34 (4-5): pp 325-337.

**Bampoe J, Ranalli P, Bernstein M:** Postoperative reversal of complete (monocular) blindness in skull base meningioma: Case report. *Canadian Journal of Neurological Sciences*: September 2003: 30: pp 72-74.

**Bernstein M:** Conflict of interest: It is ethical for an investigator to also be the care-giver in a clinical trial. *Journal of Neuro-Oncology*: October 2003: 63: pp 107-108.

**Bernstein M:** Disclosing errors to patients: beyond forgiveness. *Evidence-Based Surgery*: November 2003: 1: pp 3-4.

**Bernstein M:** Disclosure dilemma. Should doctors reveal their own medical histories? Pro: Patients have a right to know. *Parkhurst Exchange (Physicians' Forum website)* : April 2004: 12(4): pp 36.

**Bernstein M:** Editorial: Subcortical stimulation mapping. *Journal of Neurosurgery*: January 2004: 100: pp 365-366.

**Bernstein M:** Hospital mergers: Good organizational ethics are needed. *Parkhurst Exchange (Physicians' Forum Website)*: September 2003: 11: pp 139.

**Bernstein M:** Neurosurgical depression. *Canadian Medical Association Journal*: November 2003: 169: pp 943-944.

**Bernstein M:** Placebos. Is their use ethical in clinical trials? Con: Harm is not always obvious. *Parkhurst Exchange*: November 2003: 11, No. 11: pp 27.

**Bernstein M:** SARS and ethics. *Hospital Quarterly*: November 2003: 7: pp 38-40.

**Bernstein M:** Surgical teaching: How should neurosurgeons handle the conflict of duty to today's patients with the duty to tomorrow's? *British Journal of Neurosurgery*: September 2003: 17: pp 121-123.

**Bernstein M:** Surgical outreach clinics in Canada: one neurosurgeon's experience. *Canadian Journal of Surgery*: January 2004: 47: pp 25-28.

**Bernstein M:** Tagging patients with AD. Are electronic bracelets the way to keep track of wandering wards? Pro: It improves quality of life. *Parkhurst Exchange*: October 2003: 11: pp 30.



- Bernstein M:** Two-tiered healthcare. Private healthcare isn't the answer. *Parkhurst Exchange*: May 2004: 12(5): pp 222.
- Bernstein M:** Wrong-side surgery: Systems for prevention. *Canadian Journal of Surgery*: September 2003: 46: pp 144-146.
- Bernstein M, Bampoe J:** Surgical innovation or surgical evolution: an ethical and practical guide to handling novel neurosurgical procedures. *Journal of Neurosurgery*: January 2004: 100: pp 2-7.
- Bernstein M, Bowman K:** Should a medical/surgical specialist with formal training in bioethics provide health care ethics consultation in his/her own area of specialty? *HEC Forum*: November 2003: 15: pp 274-286.
- Bernstein M, Brown B:** Doctors' duty to disclose error: a deontological or Kantian ethical analysis. *Canadian Journal of Neurological Sciences*: April 2004: 31: pp 169-174.
- Bernstein M, Fundner R:** House of healing, house of disrespect: A Kantian perspective on disrespectful behaviour among hospital workers. *Hospital Quarterly*: September 2003: 6: pp 62-66.
- Bernstein M, Hebert PC, Etechells E:** Patient safety in neurosurgery. Detection of errors, prevention of errors, and disclosure of errors. *Neurosurgery Quarterly*: September 2003: 13: pp 125-137.
- Bernstein M, Perrin R:** Acute bacterial meningitis. *Parkhurst Exchange*: March 2004: 12(3): pp 142-149.
- Bernstein M, Potvin D, Martin DK:** A qualitative study of attitudes toward error in patients facign brain tumour surgery. *Canadian Journal of Neurological Sciences*: April 2004: 31: pp 208-212.
- Bernstein M, Upshur REG:** Framework for bioethical assessment of an article on therapy. *Journal of Neurosurgery*: September 2003: 98: pp 485-490.
- Bin Mahfoodh H, Hamani C, Sime E, Lozano AM:** Longevity of batteries in internal pulse generator used for deep brain stimulation. *Stereotactic and Functional Neurosurgery*: December 2003: 80(1-4): pp 56-60.
- Bock N, Sadeh G, Davidson LM, Qian B, Sled J, Guha A, Henkelman R:** High-resolution longitudinal screening with magnetic resonance imaging in a murine brain cancer model. *Neoplasia*: November 2003: 5(6): pp 546-554.
- Casha S, Fehlings MG:** Clinical and radiological evaluation of the Codman semi-constrained load sharing anterior cervical plate: results of a prospective, multicenter trial with independent, blinded evaluation of outcome. *Journal of Neurosurgery (Spine)*: October 2003: 99(4): pp 264-270.
- Chakravarti A, Seiferheld W, Robbins I, Guha A, Sperduto P, Choucair A, Brachman D, Mehta M:** Phase 1 results from RTOG BR-0211, a phase I/II study of an oral epidermal growth factor receptor tyrosine kinase inhibitor (EGFR-TK1), ZD 1839 (Iressa), with radiation therapy in glioblastoma multiforme (GBM). *Int J Radiat Oncol Biol Phys*: October 2003: 57(2 Supp): pp S329.
- Chang S, Parney IF, McDermott M, Barker FG, Schmidt M, Huang W, Laws ER, Lillehei KO, Bernstein M, Brem H, Sloan A, Berger M:** Perioperative complications and neurological outcomes of first versus second craniotomy among patients enrolled in the Glioma Outcomes (GO) Project. *Journal of Neurosurgery*: October 2003: 98: pp 1175-1181.
- Davis KD:** Neurophysiological and anatomical considerations in functional imaging of pain. *Pain*: September 2003: 105: pp 1-3.
- Downar J, Mikulis DJ, Davis KD:** Neural correlates of the prolonged salience of painful stimulation. *Neuroimage*: November 2003: 20: pp 1540-1551.
- Eltahawy H, Galadi N, Saint-Cyr J, Lang AE, Lozano A:** Primary dystonia is more responsive than secondary dystonia to pallidal interventions. *Neurosurgery*: March 2004: 54(3): pp 613-619.
- Eltahawy HA, Saint-Cyr J, Giladi N, Lang AE, Lozano AM:** Primary dystonia is more responsive than secondary dystonia to pallidal interventions: Outcomes after pallidotomy or pallidal deep brain stimulation. *Neurosurgery*: March 2004: 54(3): pp 613-619.
- Filali M, Hutchison WD, Lozano AM, Palter V, Dostrovsky JO:** Stimulation-induced inhibition of neuronal firing in human subthalamic nucleus. *Experimental Brain Research*: June 2004: 156(3): pp 274-281.
- Furlan JC, Fehlings MG, Halliday W, Krassioukov AV:** Autonomic dysreflexia in a patient with intramedullary pilocytic astrocytoma. *Lancet Oncology*: September 2003: 4(9): pp 574-575.
- Gross RE, Jones EG, Dostrovsky JO, Bergeron C, Lang AE, Lozano AM:** Histological analysis of the location of effective thalamic stimulation for tremor: A case study. *Journal of Neurosurgery*: March 2004: 100(3): pp 547-552.
- Guha A, Eisenhut M, Shears P, Dalzell M:** Impetigo neonatorum associated with late onset group B streptococcal meningitis. *J. Infect*: August 2003: 47(2): pp 185-7.
- Guha A, Gorgees KA, Walker DT:** Popliteus tendon rupture: a case report and review of the literature. *Br. J. Sports Med.* 37(4):358-6011NO»2003-0402003/08\*Guha A, Sriram V, Krishnan KS, Mayor S.0‡Shibire m: August 2003: 37(4): pp 358-60.
- Guha A, Sriram V, Krishnan KS, Mayor S:** Shibire mutations reveal distinct dynamin-independent and dependent endocytic pathways in primary cultures of *Drosophila* hemocytes. *J. Cell Science*: August 2003: 116(pt16): pp 3373-86.
- Gunnarsson T, Fehlings MG:** Acute neurosurgical management of traumatic brain injury and spinal cord injury. *Current Opinion in Neurology*: December 2003: 16(6): pp 717-23.
- Gutman DH, James CD, Poyhonen M, Louis DN, Ferner R, Guha A, Related articles, Lir Hariharan S, Viskochil D, Perry A:** Molecular analysis of astrocytomas presenting after age 10 in individuals wi NF1. *Neurology*: November 2003: 61(10): pp 1397-400.

- Hamani C, Ewerton FI, Bonilha SM, Ballester G, Mello LE, Lozano AM:** Bilateral anterior thalamic nucleus lesions and high-frequency stimulation and protective against pilocarpine-induced seizures and status epilepticus. *Neurosurgery*: January 2004: 54(1): pp 191-195.
- Hamani C, Saint-Cyr JA, Fraser J, Kaplitt M, Lozano AM:** The subthalamic nucleus in the context of movement disorders. *Brain*: January 2004: 127(Pt 1): pp 4-20.
- Hanajima R, Chen R, Lozano AM, Ashby P:** Single pulse stimulation of the human subthalamic nucleus facilitates the motor cortex. *Journal Neurophysiology* 11NOV2003-0402004/05Lozano AM, Mahant N09Deep brain stimulation surgery for: May 2004.
- Hanajima R, Dostrovsky JO, Lozano AM, Hutchison WD, Davis KD, Ashby P:** Somatosensory evoked potentials recorded from the thalamus and subthalamic nucleus. *Clinical Neurophysiology*: January 2004: 115: pp 424-434.
- Hanajima R, Dostrovsky JO, Lozano AM, Hutchison WD, Davis KD, Chen R, Ashby P:** Somatosensory evoked potentials (SEPs) recorded from deep brain stimulation (DBS) electrodes in the thalamus and subthalamic nucleus (STN). *Clinical Neurophysiology*: February 2004: 115(2): pp 424-434.
- Jacob JE, Gris P, Fehlings MG, Weaver LC, Brown A:** Autonomic dysreflexia after spinal cord transection and compression in 129Sv, C57BL and Wallerian degeneration slow mutant mice. *Experimental Neurology*: September 2003: 183(1): pp 136-46.
- Jacobs B, Fehlings MG:** The molecular basis of neural regeneration. *Neurosurgery*: October 2003: 53(4): pp 943-949.
- Kalia S, Nash JE, Lozano AM:** To serve and protect? Interventions in the subthalamic nucleus for Parkinson's disease. Commentary on "Ablation of the subthalamic nucleus protects dopaminergic phenotype but not cell survival in a rat model of Parkinson's disease". *Experimental Neurology*: February 2004: 185(2): pp 201-203.
- Kimmelman AC, Qiao RF, Narla G, Banno A, Lau N, Bos PD, Nunez Rodriguez N, Liang BC, Guha A, Martignetti JA, Friedman SL, Chan AM:** Suppression of glioblastoma tumorigenicity by the Kruppel-like transcription factor KLF6. *Oncogene*: June 2004: 23(29)5077: pp 5077-5083.
- Kleiner-Fisman G, Fisman DN, Kahn FI, Sime E, Lozano AM, Lang AE:** Motor cortical stimulation for parkinsonism in multiple system atrophy. *Archives of Neurology*: November 2003: 60(11): pp 1554-1558.
- Kleiner-Fisman G, Fisman DN, Sime E, Saint-Cyr JA, Lozano AM, Lang AE:** Long-term follow up of bilateral deep brain stimulation of the subthalamic nucleus in patients with advanced Parkinson's disease. *Journal of Neurosurgery*: September 2003: 99(3): pp 489-495.
- Kleiner-Fisman G, Kleiner D, Saint-Cyr JA, Lozano A, Lang AE:** Long-term follow up of bilateral subthalamic nucleus deep brain stimulation in patients with advanced Parkinson's disease. *Journal of Neurosurgery*: September 2003: 99(3): pp 489-495.
- Krassioukov AV, Furlan J, Fehlings MG:** Autonomic dysreflexia in acute spinal cord injury: An under-recognized clinical entity. *Journal of Neurotrauma*: August 2003: 20(8): pp 707-716.
- Kumar R, Lozano AM, Sime E, Lang AE:** Long-term follow up of thalamic deep brain stimulation for essential and parkinsonian tremor. *Neurology*: December 2003: 61(11): pp 1601-1604.
- Kwan CL, Davis KD, Mikula K, Diamant NE:** Abnormal rectal motor physiology in patients with irritable bowel syndrome. *Neurogastroenterology and Motility*: April 2004: 16: pp 251-263.
- Laws ER, Parney IF, Huang W, Anderson F, Morris AM, Asher A, Lillehei KO, Bernstein M, Brem H, Sloan A, Berger MS, Chang S:** Survival following surgery and prognostic factors for recently diagnosed malignant glioma: data from the Glioma Outcomes Project. *Journal of Neurosurgery*: November 2003: 99: pp 467-473.
- Liu L, Hsu SS, Kalia SK, Lozano AM:** Injury and strain-dependent dopaminergic neuronal degeneration in the substantia nigra of mice after axotomy or MPTP. *Brain Research*: December 2003: 994(2): pp 243-252.
- Lozano AM, Abosch A:** Pallidal stimulation for dystonia. *Adv Neurology*. January 2004: 94: pp 301-308. Review.
- Lozano AM, Hamani C:** The future of deep brain stimulation. *Journal of Clinical Neurophysiology*: February 2004: 21(1): pp 68-69.
- Lozano AM, Mahant N:** Deep brain stimulation surgery for Parkinson's disease. *Parkinsonism and Related Disorders*: May 2004: 10 Supp 1: pp S49-57.
- MacMillan ML, Dostrovsky JO, Lozano AM, Hutchison WD:** Involvement of human thalamic neurons in internally and externally generated movements. *Journal of Neurophysiology*: Feb. 2004 91(2) pp 1085-1090.
- McGuire G, El-Beheiry H, Manninen P, Lozano A, Wennberg R:** Activation of electrocorticographic activity with remifentanyl and alfentanil during neurosurgical excision of epileptogenic focus. *British Journal of Anaesthesia*: November 2003: 91(5): pp 651-656.
- Mubarak, A, Midha, R, Guha, A, Jacobs, B:** Malignant peripheral nerve tumors. In: *Textbook of Neurooncology* (Berger M, Prados M, eds). Being published in 2004: 4304 pp 74.1-74.9.
- Ning K, Pei L, Liao N, Liu B, Zhang Y, Jiang W, Mielke JG, Li L, Chen Y, El-Hayek YH, Fehlings MG, Zhang X, Liu F, Eubanks JH, Wan Q:** Dual Neuroprotective Signaling Mediated By Down Regulating Two Distinct Phosphatase Activities of PTEN. *Journal of Neuroscience*: April 2004: 24: pp 4052-4060.
- Pandita A, Aldape KD, Zadeh G, Guha A, James CD:** Contrasting in vivo and in vitro fates of glioblastoma cell subpopulations with amplified EGFR. *Genes Chromosomes Cancer*: January 2004: 39(1): pp 29-36.
- Paradiso G, Saint-Cyr JA, Lozano AM, Lang AE, Chen R:** Involvement of the human subthalamic nucleus in movement preparation. *Neurology*: December 2003: 61(11): pp 1538-1545.



**Park E, Liu Y, Fehlings MG:** Changes in glial cell white matter AMPA receptor expression after spinal cord injury and relationship to apoptotic cell death. *Experimental Neurology*: July 2003: 182(1): pp 35-48.

**Perrin RG, Guha A:** Malignant peripheral nerve sheath tumors. *Neurosurg Clin N Am*: April 2004: 15(2)203-2: pp 203-216.

**Richter EO, Davis KD, Hamani C, Hutchison WD, Dostrovsky JO, Lozano AM:** Cingulotomy for psychiatric disease: Microelectrode guidance, a callosal reference system for documenting lesion location and clinical results. *Neurosurgery*: March 2004: 54(3): pp 622-630.

**Richter EO, Hoque T, Halliday W, Lozano AM, Saint-Cyr JA:** Determining the position and size of the subthalamic nucleus based on magnetic resonance imaging results in patients with advanced Parkinson's disease. *Journal of Neurosurgery*: March 2004: 100(3): pp 541-546.

**Shaikh S, Chung F, Imarengiaye C, Yung D, Bernstein M:** Pain, nausea, vomiting and ocular complications following ambulatory microdissectomy. *Canadian Journal of Anaesthesia*: October 2003: 50: pp 514-518.

**Singer PA, Benatar SR, Bernstein M, Daar AS, Dickens BM, MacRae SK, Upshur RE, Wright L, Shaul RZ:** Ethics and SARS: lessons from Toronto. *British Medical Journal*: November 2003: 327: pp 1342-1344.

**Spears J, Bernstein M:** Subarachnoid hemorrhage. A dramatic, sudden event that can be deadly. *Parkhurst Exchange*: December 2003: 11: pp 66-67.

**Stefurak T, Mikulis D, Mayberg H, Lang AE, Hevenor S, Pahapill P, Saint-Cyr J, Lozano AM:** Deep brain stimulation for Parkinson's disease dissociates mood and motor circuits: A functional MRI case study. *Movement Disorders*: December 2003: 18(12): pp 1508-1516.

**Taylor M, Bernstein M, Perry J, Chambers A:** Surgical management of malignant glioma. Evidence Summary Report of Cancer Care Ontario Program in Evidence-Based Medicine. available at [www.cancercare.on.ca/pdf/pebc9-8f.pdf](http://www.cancercare.on.ca/pdf/pebc9-8f.pdf): May 2004.

**Tymianski M, Javadpour M:** Cerebrovascular Neurosurgery: The Self-Assessment in Neurological Surgery-Wired. In: *SANS*, 7th Edition 2003 (Anthony L. Asher, ed). Congress of Neurological Surgeons., Cleveland: 2003: pp on-line.

**Wells JEA, Hurlbert RJ, Fehlings MG, Yong VW:** Neuroprotection by minocycline facilitates significant recovery from spinal cord injury in mice. *Brain*: July 2003: 126(7): pp 1628-37.

**Wennberg R, Lozano AM:** Intracranial volume conduction of cortical spikes and sleep potentials recorded with deep brain stimulation electrodes. *Clinical Neurophysiology*: August 2003: 114(8): pp 1403-1418.

**Wennberg R, Nag S, McAndrews MP, Lozano AM, Farb R, Mikulis D:** Chronic (Rasmussen's) encephalitis in an adult. *Canadian Journal of Neurological Sciences*: August 2003: 30(3): pp 263-265.

**Zadeh G, Guha A:** Angiogenesis in nervous system disorders. *Neurosurgery*: December 2003: 53(6): pp 1362-74.

**Zadeh G, Guha A:** Molecular regulators of angiogenesis in the developing nervous system and adult brain tumors. *Journal of Oncology*: September 2003: 23(3): pp 557-65.

**Zadeh G, Qian B, Sabha N, Okhowat A, Kontos C, Guha A:** Targeting the Tie2/Tek receptor in astrocytomas. *American Journal of Pathology*: February 2004: 164: pp 467-476.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Bernstein M:** Bethune Round Table Meeting, Toronto, Ontario, May 2004. "Neurosurgery and neurosurgical education in Indonesia".

**Bernstein M:** New You Show, Toronto, Ontario, May 2004. Face transplants: Fantastic or frightening?

**Bernstein M:** CBC TV, Toronto, Ontario, April 2004. Interview: "Ethical issues in cosmetic surgery."

**Bernstein M:** Teaching the Teachers, Joint Centre for Bioethics, Toronto, Ontario, May 2004. Teaching residents to care for our patients: the ethical quandry of the academic clinician.

**Bernstein M:** Padjadjaran University, Bandung, Indonesia, November 2003. Visiting Professor, Department of Neurosurgery.

**Davis KD:** Joint meeting of The American Association of Electrodiagnostic Medicine (AAEM), International Federation of Clinical Neurophysiology (IFCN), and the American Clinical Neurophysiology Society (ACNS), San Francisco, California, September 2003. AAEM 50th Anniversary Lecture: "Neuroimaging of Pain".

**Davis KD:** IASP Research Symposium: Hyperalgesias- from molecular mechanisms to clinical applications, Erlangen, Germany, September 2003. Can percept-related fMRI distinguish pain from nociception?

**Davis KD:** Grand Rounds - UCLA Neuropsychiatric Institute and Depts of Psychiatry and Biobehavioral Sciences, Los Angeles, California, April 2004. Lessons for neuropsychiatry from imaging studies of pain and attention.

**Davis KD:** UCLA: Joint Seminars in Neuroscience, Los Angeles, California, April 2004. Neuroimaging of the multidimensional nature of pain.

**Davis KD:** University of Heidelberg, symposium on "Neuroplasticity and learning in chronic pain", Heidelberg, Germany, March 2004. New approaches to imaging flavours of pain.

**Eric M. Massicotte:** AO ASIF, Quebec, Quebec, August 2003. AO ASIF Spine course.

**Fehlings MG:** AO ASIF Spine Interactive Course, Quebec City, Quebec, August 2003. (1) Cervical spine trauma: a) Case presentation and discussion: Cervical burst fracture with incomplete spinal cord injury, b) Timing of surgery, (2) Degenerative cervical spine: Anterior approaches (Case: Multi-level spondylotic disease with myelopathy), (3) Practical exercises: I: Anterior and posterior surgical management of cervical myelopathy, II: Operative approaches for lumbar spondylosis.



**Fehlings MG:** AO ASIF Spine Comprehensive and Interactive Course, Quebec City, Quebec, August 2003. (1) Member of course organizing committee, (2) Moderator combined opening session: Comprehensive and interactive courses, (3) Combined comprehensive and interactive course: Case discussion: Management of neurological complications of spinal cord injury, (4) Moderator: Cervical spine symposium: Rheumatoid arthritis of the cervical spine, (5) Moderator: Round table discussion of complex cases, (6) Degenerative/deformity session: Closing remarks.

**Fehlings MG:** AO ASIF Spine Comprehensive Course, Quebec City, Quebec August 2003. (1) Treatment options: Multilevel cervical spondylosis with myelopathy, (2) Practical exercises: I: a) Odontoid screw fixations, b) C1-C2 transarticular screw, II: a) Anterior instrumentation for thoracolumbar trauma, b) Posterior instrumentation for thoracolumbar trauma, III: a) Anterior cervical fixation, b) Posterior occipitocervical fixation including lateral mass fixations, c) Laminoplasty demonstration.

**Fehlings MG:** Hong Kong Neurosurgical Society, Prince of Wales Hospital, Hong Kong, December 2003. (1) Clinical teaching for trainees, (2) Brain Symposium - Spinal cord diseases: Role of the FAS death receptor in the pathophysiology of spinal cord injury: clinical implications and opportunities for novel neuroprotective approaches, (3) Rheumatoid cervical spine disease: Current concepts and neurosurgical management, (4) Neuroprotection of the injured spinal cord: From gene to the operating room.

**Fehlings MG:** Spine Trauma Study Group, Sonoma, California, September 2003. (1) Co-Chair, (2) Update on STASCIS (Surgical Treatment of Acute Spinal Cord Injury Study).

**Fehlings MG:** Congress of Neurological Surgeons, Denver, Colorado, October 2003. (1) Practical Course 21 - Surgical arthrodesis of the cervical spine: Anterior, posterior and combined stabilization, (2) Traumatic spinal cord injury: Advances in medical and surgical management - Role and timing of surgery.

**Fehlings MG:** Loyola University, conference on "Debating issues in the cervical spine", Chicago, Illinois, October 2003. (1) Timing of surgery in acute spinal cord injury: Role of early decompression, (2) Pathophysiology and natural history of rheumatoid cervical spine disease.

**Fehlings MG:** Christopher Reeve Paralysis Foundation Clinical Trials Meeting, New York, New York, September 2003. Meeting to develop a clinical network that can carry out the transfer of laboratory studies to clinical trials of new therapies for spinal cord injury.

**Fehlings MG:** International Collaboration on Repair Discoveries (ICORD), Vancouver, British Columbia, September 2003. Member of External Advisory Panel. First Annual Meeting.

**Fehlings MG:** 10th International Symposium on Neural Regeneration, Pacific Grove, California, December 2003. Neuroprotection of the injured spinal cord: Basic science, translational opportunities and clinical impact.

**Fehlings MG:** Institutes of Neurosciences, Mental Health and Addiction, Toronto, Ontario, November 2003. Repair of the injured spinal cord: Translational opportunities for acute intervention.

**Guha A:** AANS, San Diego, California, November 2003. A) Identifying an endothelial cell specific pathway involved in angiogenic progression of intracranial astrocytomas. B) Intracranial dural-based metastasis of esthesioneuroblastoma without recurrence at the primary site. C) The effect of SU11248, a potent inhibitor of VEGFR and PDGFR, on glioblastoma multiforme growth and vascularity. D) Transgenic mouse models of intracranial gliomas used for better understanding the molecular pathogenesis of gliomas.

**Hutchison WD:** Department of Neurology, University of Pennsylvania and Pennsylvania Hospital, Philadelphia, September 2003. Intraoperative localization of subthalamic nucleus.

**Lozano AM:** World Society for Stereotactic and Functional Neurosurgery Course, Riyadh, Saudi Arabia, December 2003. 1) Neurobiology of movement disorders. 2) Movement disorder surgery 3) Surgery for psychiatric disease. 4) Surgery for epilepsy.

**Lozano AM:** 12th Annual National Residents' Seminar on Movement Disorders, Montreal, Quebec, January 2004. 1) Functional neurosurgery of Parkinson's disease 2) Functional neurosurgery of other movement disorders.

**Lozano AM:** International Invited Guest. XIIth Venezuelan Congress of Neurosurgery, Puerto la Cruz, Venezuela, May 2004. 1) Surgery for dystonia. 2) The current state of functional neurosurgery 3) Surgery for Parkinson's disease.

**Lozano AM:** Invited Lecturer, American Academy of Neurology Course, San Francisco, California, April 2004. 1) Surgical treatment of advanced Parkinson's disease 2) Intraparenchymal drug delivery of gene therapy for Parkinson's disease.

**Lozano AM:** Dystonia Medical Research Foundation, Atlanta, Georgia, January 2004. Advances in surgery for dystonia.

**Lozano AM:** Visiting Professor, University of Tor Vergata, Rome, Italy, March 2004. Brain stimulation for Parkinson's disease.

**Lozano AM:** McGill University, Ottawa, Ontario, November 2003. Brain stimulation: The present and the promise.

**Lozano AM:** International Symposium on Parkinson's disease, Kobe, Japan, September 2003. Invited International Speaker - Deep brain stimulation: Mechanisms and consequences.

**Lozano AM:** International Congress of Neurophysiology, San Francisco, California, September 2003. Invited Speaker - Modulating brain function with deep brain stimulation.

**Lozano AM:** Visiting Professor, University of Florida, Gainesville, Florida, February 2004. Microsurgery course directed by Dr. Albert Rhoton.

**Lozano AM:** Williams Lecture in Neurosciences. Memorial University of Newfoundland, Newfoundland, October 2003. Neurosurgery to improve brain function.

**Lozano AM:** National Institute of Medicine Mexico, Mexico City, Mexico, December 2003. Novel surgical treatments for epilepsy.

**Lozano AM:** American Association of Neurological Surgeons, Orlando, Florida, May 2004. Paper Commentator and Stereotactic and Functional Section Session Chair.



- Lozano AM:** Movement Disorder Society Meeting, Rome, Italy, June 2004. Plenary Speaker. The future of DBS and lesion surgery for Parkinson's disease.
- Lozano AM:** Visiting Professor, University of Louisville, Louisville, Kentucky, February 2004. Progress in Parkinson's disease.
- Lozano AM:** Congress of Neurological Surgeons, Denver, Colorado, October 2003. Special Lecture. Brain stimulation for optimizing function.
- Lozano AM:** The Egyptian Society of Stereotactic and Functional Neurosurgery, Alexandria, Egypt, August 2003. Status of deep brain stimulation.
- Lozano AM:** Invited International Speaker. Scandinavian Neurological Association, Copenhagen, Denmark, May 2004. Targeting the basal ganglia in Parkinson's disease surgery.
- Lozano AM:** King Faisal Hospital, Riyadh, Saudi Arabia, December 2003. Visiting Professor - Functional Neurosurgery Programme.
- Saint-Cyr J:** Centre Hospitalier Universitaire, Ottawa, Ontario, Dec 2003. Visualization et ciblage du noyau subthalamique en IRM.
- Tymianski M:** Canadian Trigeminal Neuralgia Association, Toronto, Ontario, October 2003. "Surgical Treatment of Trigeminal Neuralgia." Invited Lecturer.
- Tymianski M:** Canadian Congress Neurological Surgeons, Calgary, Alberta, June 2004. "The Cure for Rat Stroke".
- Tymianski M:** Canadian Stroke Network, Banff, Alberta, January 2004. A Key Role for TRPM7 Channels in Anoxic Neuronal Death.
- Tymianski M:** AANS, San Diego, California, February 2004. A) Intracranial Hemorrhages from Brain Cavernous Malformations. B) Moderator for Oral Presentations: Session 2.
- Tymianski M:** Stroke Symposium at Conference on Cardiovascular Medicine and Science, 2nd International Conference, Bethesda, Maryland, July 2003. Novel targets for stroke therapeutics based on protein-protein interactions that mediate anoxic neuronal death.
- Tymianski M:** AANS Annual Meeting, Orlando, Florida, May 2004. Panelist: Multidisciplinary Management of Complex Cerebral AVMs.
- Tymianski M:** Canadian Stroke Network Annual General Meeting, Victoria, British Columbia, June 2004. Pre-Clinical studies on Treatment of Stroke with Inhibitors of NMDA receptor PSD-95 interaction.
- Tymianski M:** Virginia Commonwealth University, Dept of Anatomy-- Cell Biology, Richmond, Virginia, October 2003. Visiting Professor.
- Wallace MC:** 23rd International Congress of Radiology of the International Society of Radiology, Montreal, Quebec, June 2004. Aneurysms: 1). Neurosurgical treatment. 2). Unruptured - To treat or not to treat.
- Wallace MC:** 5th Annual Interventional Neuroradiology Symposium, Toronto, Ontario, September 2003. Brain and spinal cord cavernomas: Natural history and management.
- Wallace MC:** Visiting Professorship, University of Illinois at Chicago, Chicago, December 2003. Diagnosis and treatment of dural arteriovenous fistulae.
- Wallace MC:** Society of British Neurological Surgeons, Cardiff, UK, September 2003. International perspectives in neurosurgical training.
- Wallace MC:** Brazilian Congress of Neurological Surgeons, Recife, Brazil, November 2003. International subarachnoid aneurysm trial (ISAT): A neurosurgical perspective.
- Wallace MC:** The 17th Annual North York General Hospital Emergency Update 2004, Toronto, Canada, May 2004. Intracranial hemorrhage: Diagnosis, management, prognosis.
- Wallace MC:** 53rd Annual Meeting, Congress of Neurological Surgeons, Denver, Colorado, October 2003. Moderator: Endovascular management of intracranial aneurysms: Indications, techniques and results.
- Wallace MC:** 5th Annual Interventional Neuroradiology Symposium, Toronto, Ontario, September 2003. Moderator: Ischemia of the spinal cord.
- Wallace MC:** 57th Annual Meeting of the Neurosurgical Society of America, Santa Fe, New Mexico, June 2004. Multidisciplinary management of brain AVM's.
- Wallace MC:** Visiting Professorship, Dalhousie University, Halifax, Nova Scotia, December 2003. The importance of clinical research in cerebrovascular disease.
- Wallace MC:** Annual Spring Meeting of the Korean Neurosurgical Society, Daejeon, Korea, April 2004. The role of endovascular technique in modern cerebrovascular neurosurgery.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

*Wallace MC: Rothman, Benson & Hedges Incorporated (\$25,000 2000 - 2004).*

An investigation of the neuroprotective effect of inhibition of post-traumatic FAS and p75 initiated apoptosis in the spinal cord (FA2-0102-2). *Fehlings MG: Christopher Reeve Paralysis Foundation (\$169,969 2001 - 2003).*

Apoptosis after spinal cord injury: The role of Fas, p75NTR, and NF-kappaB (INO-60945). *Fehlings MG, Barker PA: Canadian Institutes of Health Research (\$87,430 2002 - 2003).*

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. *Michael Tymianski: CIHR grant MOP 53353* (\$315,000 2002 - 2005).

Characterization and identification of oncogenic receptor protein tyrosine kinase signalling complexes in malignant astrocytomas. *Dr. A. Guha, Dr. M. Moran: OCRN* (\$110,000 2003 - 2005).

Clinician Scientist Award Phase II 3 year renewal. *Michael Tymianski: CIHR* (\$165,000 2003 - 2005).

Composition and molecular organization of postsynaptic densities following transient global ischemia. *Gurd JW, Wallace MC: Heart and Stroke Foundation of Ontario* (\$225,000 2001 - 2004).

Correction of Rett Phenotype By Exogenous Gene Delivery. *James H. Eubanks, W. McIntyre Burnham and O. Carter Snead III: Canadian Institutes of Health Research* (\$224,315 2002 - 2004).

Cytoskeletal regulation of traumatic brain injury. *Michael Tymianski, Mark Arundine: CIHR INMHA Doctoral Award* (\$20,500 2002 - 2005).

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

Deep brain stimulation effects on task-driven fMRI. *Saint-Cyr JA, McAndrews M-P, Mikulis DJ: Natural Sciences and Engineering Research Council* (\$64,000 2000 - 2004)

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).

Do serotonin transporter gene polymorphisms influence serotonin transporter expression in human brain? *Kish SJ, Guttman M, Houle S, Saint-Cyr JA: CIHR* (\$332,883 2001 - 2004)

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

Early versus later decompression of cervical spinal cord injuries with spinal cord compression. *Massicotte EM, Schwartz G, Fehlings MG: Cervical Spine Research Society* (\$46,290 2002 - 2003).

Effect of sleep deprivation on resident surgeon psychomotor skills. *Bernstein M, Woodrow S, Murray B, Dubrowski A, Reznick RK, Hamstra SJ: PSI* (\$108,000 2004 - 2005).

Establishment of a Database of Potential Donors for a Canadian Spinal Cord Tissue Bank. *Krassioukov AV, Fehlings MG: Joint Section of the Spine and Peripheral Nerves of the AANS/CNS. 2002 Larson Award* (\$24,000 2002 - 2004).

Ethical challenges in the preparedness and response for SARS: An interdisciplinary research study. *Upshur REG, Upshur REG, Singer PA, Daar AS, Hawryluck L, Martin DK, Bernstein M, Gold WL, Wilson K, Styra R, Zlotnik SR: CIHR* (\$194,850 2004 - 2005).

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).

Functional evaluation of glial AMPA/kainate receptors in spinal cord: white matter: implications for understanding the pathophysiology of spinal cord ischemia. *Fehlings MG: Heart and Stroke Foundation* (\$117,693 2003 - 2005).

Gender differences in child development: vulnerability to chronic pain. *McGrath PA, Davis KD, Katz J, Brown SC, Geist R: CIHR - New Emerging Team* (\$1,478,735 2003 - 2008).

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

Immune function and secondary complications in patients with spinal cord injury. *Hayes KC, Popovich P, Reid G, Fehlings MG, Dekaban G, Duggal N, Krassioukov A, Potter P, Smith K: Ontario Neurotrauma Foundation* (\$100,000 2002 - 2004).

Immune function and secondary complications in patients with spinal cord injury. *Hayes, K, Dekaban G, Guggal N, Fehlings M, Krassioukov A, Craven C: Ontario Neurotrauma Foundation* (\$110,000 2002 - 2004).

In vivo electroporation for gene therapy. *Hutchison WD: Krembil Seed Fund* (\$50,000 2004 - 2005).

Investigation and treatment of traumatic axonal dysfunction after spinal cord injury (MOP-14459). *Fehlings MG: Canadian Institutes of Health Research (CIHR)* (\$392,319 2003 - 2006).

Isolation and characterization of a novel ischemia-induced gene. *Eubanks JH, Wallace MC: Heart & Stroke Foundation of Ontario* (\$125,632 2003 - 2005).

Maladaptive and adaptive markers of pain and sensorimotor cortical plasticity following repair of peripheral nerve injuries: A pilot study. *Davis KD, Anastakis D, Mikulis D, Chen R: AstraZeneca/The University of Toronto Centre for the Study of Pain* (\$12,500 2004 - 2005).

Mechanism of Action of Deep Brain Stimulation. *Jonathan Dostrovsky, William D. Hutchison, Jean Saint-Cyr, Andres Lozano: CIHR/NIH joint* (\$125,000 2001 - 2004).

Mechanisms of axonal dysfunction in the spinal cord injury: Role of functional changes in spinal cord white matter glia. *Velumian A, Fehlings MG: Cervical Spine Research Society* (\$38,765 2003 - 2004).

Mechanisms of deep brain stimulation for Parkinson's disease. *Dostrovsky JO, Hutchison WD, Lozano AM: National Institute of Health* (\$375,000 2001 - 2003).

Molecular Mechanisms of Neuronal Injury. *Michael Tymianski, 12 investigators across Canada: Canadian Stroke Networks* (\$765,000 2003 - 2005).



Multi-User Operating Grant--Centralized Flow Cytometry: OCI/PMH. *Guha A and Group: Medical Research Council of Canada* (\$641,895 1999 - 2004).

Neoangiogenesis in Cerebral Ischemia. *Guha A, Nagy A, Wallace C: Heart and Stroke Foundation* (\$372,000 2000 - 2003).

Neoangiogenesis in cerebral ischemia. *Guha A, Wallace MC, Nagy A: Heart & Stroke Foundation of Ontario* (\$246,428 1998 - 2004).

Neoangiogenesis in Cerebral Ischemia, Premiers Research Excellence Award: Transgenic Mouse Modeling of Malignant Astrocytomas. *Guha, A, Nagy PI, Wallace C: Heart and Stroke* (\$100,000 2000 - 2004).

Neurophysiologic studies of deep brain stimulation. *Chen R, Lang AE, Lozano AM;: Michael J. Fox Foundation* (\$250,000 2004 - 2005).

Neurophysiological studies in human subthalamic nucleus. *Dostrovsky, Saint-Cyr JA, Hutchison HD, Lozano, A: CIHR* (\$262,801 2000 - 2003)

Neurophysiological studies in human subthalamic nucleus. *Saint-Cyr JA, Hutchison WD, Lozano AM: CIHR* (\$262,801 2000 - 2003)

Neurophysiological studies of human subthalamic nucleus. *Dostrovsky JO, Hutchison WD, Lozano AM, Saint-Cyr J: Canadian Institute of Health Research* (\$252,531 2000 - 2003).

Neurophysiology of human subthalamic nucleus. *Dostrovsky JO, Hutchison WD, Lozano AM: CIHR* (\$625,000 2004 - 2009).

Neuroprotection of the injured spinal cord: Strategies to target death receptor mediated apoptosis (PSI #02-24). *Fehlings MG: Physicians' Services Incorporated Foundation* (\$135,600 2002 - 2004).

Pathophysiology of parkinson's disease. *Chen R, Hutchison, WD, Lozano AM: CIHR* (\$625,000 2004 - 2009).

Pilot trial of thalamic stimulation for epilepsy. *Fisher RS, Dichter M, Lesser R, Henry T, Lozano AM: National Institute of Health* (\$1,256,307 2000 - 2003).

Plastic changes in human sympathetic circuits after spinal cord injury: implications for abnormal cardiovascular control. *Krassioukov, AV, Fehlings MG, Shannon P: Heart and Stroke Foundation of Ontario* (\$112,940 2002 - 2004).

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).

Postdoctoral Fellowship Award to Gordon Chu: The role of AMPA/Kainate receptors in spinal cord injury. *Fehlings MG: CIHR* (\$151,125 2001 - 2004).

Pre-clinical Studies on treatment of Stroke with inhibitors of NMDA receptor-PSD-95 interaction. *Michael Tymianski, MW Salter, YT Wang, JW Gurd, A Tasker: Canadian Stroke Networks* (\$500,000 2003 - 2005).

Preclinical Mouse Models for Human Astrocytomas. *Gutmann D, Guha A: American Cancer Society* (\$675,000 2000 - 2003).

Radiological and clinical evaluation of STNDBS. *Saint-Cyr JA: PDF of Canada* (\$57,000 2001 - 2003)

Recordings of Movement-related Neurons in Parkinsonian Patients during Movement Disorders surgery. *William D. Hutchison: Parkinson Society Canada* (\$82,384 2001 - 2003).

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).

Studentship award to A. Ackery: Use of sodium channel blockers to protect the injured spinal cord. *Ackery A, Fehlings MG: Ontario Neurotrauma Foundation (01016-S)* (\$60,000 2001 - 2003).

Studentship award to J. Zhang: Mechanisms of excitotoxic injury to spinal cord white matter: Role of Glur6. *Zhang J, Fehlings MG: Ontario Neurotrauma Foundation (#01017-S)* (\$60,000 2001 - 2003).

The Role of Epigenetics in Neuronal Excitotoxicity and Apoptosis. *James H. Eubanks: Heart and Stroke Foundation of Ontario* (\$149,548 2003 - 2005).

The role of the p75 neurotrophin receptor in the death of neurons and glia after spinal cord injury. *Fehlings, MG: North American Spine Society (NASS)* (\$115,986 2003 - 2005).

Transgenic Mouse Modeling of Malignant Astrocytomas. *Guha A: Premiers Research Excellence Award* (\$150,000 2000 - 2003).

## HONOURS RECEIVED

**Fehlings MG:** Award of Merit (2nd place) in Basic Science for study on "Descending cardiovascular pathways in human with cervical spinal cord injury: Clinical and histopathological correlations" presented at the Heart and Stroke Clinical Update. Authors: JC Furlan, AV Krassioukov, P Shannon, and MG Fehlings., December 2003.

**Fehlings MG:** Julio Furlan (Postdoctoral Fellow) received the 2003 Elsevier Award for Best Poster Presentation at the 3rd International Meeting organised by the International Society for Autonomic Neuroscience (ISAN), Calgary, AB, July 4-8, 2003., July 2003.

**Lozano AM:** Lister Prize, Department of Surgery, University of Toronto, June 2004.

## **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 - Associate Professor**

**Dr. K.W. Marshall - Assistant Professor**

**Dr. D.J. Ogilvie-Harris - Associate Professor**

**Dr. Y.R. Rampersaud - Assistant Professor**

**Dr. H.P. von Schroeder - Assistant Professor**

## **PUBLICATIONS**

**Bridwell KH, Lewis SJ, Edwards C, Lenke L, Iffrig T, Berra A, Baldus C, Blanke K:** Complications and Outcomes of Pedicle Subtraction Osteotomies for Fixed Saggittal Imbalance. *Spine*: September 2003; 28/18: pp 2093-2101.

**Bridwell KH, Lewis SJ, Rinella A, Lenke LG, Baldus C, Blanke K:** Pedicle subtraction osteotomy for the treatment of fixed saggittal imbalance. *Surgical techniques. J Bone Joint Surg Am*: March 2004; 86-A Sup 1: pp 44-50.

**Charles MN, Bourne RB, Davey JR, Greenwald AS:** Soft-tissue balancing of the hip: the role of femoral offset restoration. *Journal of Bone and Joint Surgery (American)*: May 2004; 86: pp 1978-1089.

**Davis AM, Schemitsch E, Gollish JS, Szalai JP, Saleh K, Waddell JP, Davey R, Kreder H, Hutchison C, Mohamed N, Gross AE:** Classifying Failed Hip Arthroplasty: Generalizability of Reliability. *Clinical Orthopaedics and Related Research*: October 2003; 415: pp 171-179.

**Graham B, Regehr G, Wright JG:** Delphi as a method for establish consensus for diagnostic criteria. *Journal of Clinical Epidemiology*: December 2003; 56: pp 1150-1156.

**Lau JTC, Ferguson PC, Wunder JS:** Tumors. In: *Orthopaedic Knowledge Update: Foot and Ankle 3* (Richardson EG, ed). American Academy of Orthopaedic Surgeons, Rosemont, IL: 2003: pp 189-198.

**Nizar N. Mahomed, Lau JTC, Koo M, Lin S, Zdero R, Davey JR:** Significant Variation Exists in Home Care Services Following Total Joint Arthroplasty. *Journal of Rheumatology*: May 2004; 31 (5): pp 973.

**Shipton D, Bradley E, Mahomed N:** Critical Shortage of Orthopaedic Services in Ontario, Canada. *Journal of Bone and Joint Surgery (American)*: September 2003; 85-A: pp 1710-1715.

**Shipton D, Mahomed NN, David K, Badley E:** Hospital Services for Arthritis. In: *Arthritis in Canada* (Badley E, Des Mules M, eds). Health Canada, Ottawa: 2003: pp 77-98.

**Veillette CJH, von Schroeder HP:** Endothelin-1 down-regulates the expression of vascular endothelial growth factor-A associated with osteoprogenitor proliferation and differentiation. *Bone*: February 2004; 34: pp 288-296.

**von Schroeder HP:** Surgical management of osteoarthritis of the hand and wrist. *Geriatrics and Aging*: September 2003; 6: pp 16-19.

**von Schroeder HP, Scheker L:** Redefining the Arcade of Struthers. *Journal of Hand Surgery (A)*: November 2003; 28: pp 1018-1021.

**von Schroeder HP, Veillette CJ, Payandeh J, Qureshi A, Heersche JNM:** Endothelin-1 promotes osteoprogenitor proliferation and differentiation in fetal rat calvarial cell cultures. *Bone*: October 2003; 33: pp 673-684.

## **INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

**Davey JR:** Current Techniques in Knee Arthroplasty: Primary and Revision, Niagara-on-the-Lake, Ontario, September 2003. 1. Design issues in unicompartmental knee arthroplasty 2. Posterior stabilized versus cruciate refraining total knee replacement. Does it Matter?

**Davey JR:** 14th Annual Winter Total Joint and Sports Medicine Symposium, Vail, Colorado, January 2004. 1. The importance of femoral offset. 2. Surgical approaches for revision total hip.

**Davey JR:** Orthopaedic Grand Rounds, Emory University, Atlanta, Georgia, September 2003. Importance of femoral offset and a primary porous stem.

**Davey JR:** Regional Focus Meeting, Atlanta, Georgia, December 2003. Investigation looking at femoral offset and clinical results.



- Davey JR:** 4th Annual Midwest Arthroplasty Course, Minneapolis, Minnesota, May 2004. My preferred technique for replacing the patella.
- Davey JR:** 4th Annual Midwest Arthroplasty Course, Minneapolis, Minnesota, May 2004. Total knee replacement after high tibial osteotomy.
- Lewis SJ:** AO ASIF Nursing Continuing Education, Toronto, Ontario, April 2004. AO ASIF Spine Operating Room Personnel.
- Lewis SJ:** Medtronic, Barcelona, Spain, December 2003. Symposium on Spinal Deformity. A Lecture and Cadaver Course.
- Lewis SJ:** 30th Annual Scientific Meeting of the American Spinal Injury Association, Acute and Chronic Management Spine Trauma Patients, Denver, Colorado, May 2004. The management of pelvic obliquity in the setting of neurogenic scoliosis,.
- Mahomed N N:** The Canadian Orthopaedic Association 59th Annual Meeting, Calgary, Alberta, June 2004. 1). Avoiding Pitfalls in Total Hip Arthroplasty. 2). The Introduction of New Technologies. 3). Unicompartmental Knee Replacement.
- Mahomed N N:** 4th Annual Arthroplasty Course - The Knee: Ligament & Arthritis Surgery, Minneapolis, MN, May 2004. Knee Fusion.
- Mahomed N N:** NIH Consensus Conference on Total Knee Replacement, Bethesda, MD, USA, December 2003. Outcomes of Revision Total Knee Arthroplasty After Failed Primary TKR.
- Mahomed N N:** COA, Winnipeg, Manitoba, October 2003. RCT's - The Gold Standard.
- Mahomed N N:** AARC, Milton, Ontario, May 2004. Surgical Options for Hip and Knee Arthritis.
- Mahomed N N:** Halton Healthcare Services, Milton, ON, May 2004. Taking Charge of Your Arthritis.
- Rampersaud YR:** Maverick Lumbar Disc Replacement - Cadaveric Lab - Medtronic, Memphis, March 2004. 1) Lumbar disc arthroplasty.
- Rampersaud YR:** Minimal Access Spinal Technologies Symposium and Cadaveric Lab, Brisbane, Australia, August 2003. 1) Minimally invasive lumbar decompression. 2) Minimally invasive lumbar instrumented fusion. 3) Sextant percutaneous pedicle screw fixations system: Technique, tips and pitfalls.
- Rampersaud YR:** Minimal Access Spinal Technologies Symposium and Cadaveric Lab - Medtronic, Memphis, March 2004. 1) Minimally invasive lumbar instrumented fusion - TLIF/PLIF.
- Rampersaud YR:** LHSC Perioperative Blood Conservation Program, Ortho Biotech, London, Ontario, April 2004. Blood conservation practices in spine surgery: The UHN experience.
- Rampersaud YR:** 30th Annual Scientific Meeting of the American Spinal Injury Association, Denver, Colorado, May 2004. Late decompression is unlikely to improve pain, neurology and function.
- Rampersaud YR:** Canadian Orthopaedic Resident Forum, Calgary, Alberta, April 2004. Spine - Faculty.
- Rampersaud YR:** Ski with the Spine Institute, Whistler, British Columbia, January 2004. Timing of surgical intervention: Early/late and considerations in polytrauma.

## RESEARCH AND INVESTIGATIONS

### *Senior Investigator's Name Appears in Italics*

The biology of scaphoid fracture nonunions. *von Schroeder HP: The Physicians' Services Incorporated Foundation* (\$121,000 2004 - 2006).

Optimizing in vitro osteogenesis: applications towards the study of scaphoid fracture nonunions. *von Schroeder HP: Manus Canada* (\$2,500 2004 - 2006).

Elucidating differences in activity and activation mechanisms between large and small osteoclasts and between osteoclasts originating from diseased and healthy bone: implications for pharmacological intervention. *Heersche JN, Bogoch ER, Manolson MF, von Schroeder HP: Canadian Institutes of Health Research* (\$95,091 2002 - 2004).

Modifying osteoblast signalling pathways to increase vascular cell proliferation: co-culture experimental models. *von Schroeder HP: Division of Orthopaedics/Zimmer of Canada* (\$10,000 2004).

Defining the role of electrodiagnostic testing in the diagnosis of carpal tunnel syndrome. *Graham B, Ashby P: Research Advisory Council, Workplace Safety and Insurance Board* (\$45,472 2003 - 2004).

Defining the role of electrodiagnostic testing in the diagnosis of carpal tunnel syndrome. *Graham B, Ashby P: Workplace Safety and Insurance Board* (\$43,685 2003 - 2004).

Determinants and Consequences of Pain and Fatigue in Osteoarthritis (OA), Using a Biopsychosocial Approach. *Hawker G, Badley E, Gignac M, Davis A, Romans S, Gordan A, Murray B, Benazon n, Grigoriadis S, Mahomed N, Sale J, Juurlink D, Gagliese L, Steele L, Henry J: Canadian Institute of Health Research (CIHR)* (\$1,495,170 2004 - 2009).

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).

Investigating Physician Bias as a Possible Explanation of Gender Disparity in the Utilization of Knee Arthroplasty Surgery. *Wright J G, Hawker G, Kreder H, Borkhoff C, Glazier R, Mahomed N, Hudak P, Coyte P: Canadian Institute of Health Research (CIHR) (\$99,297 2003 - 2005).*

Mid-Term Followup of Primary and Revision Total Hip Arthroplasty. *Katz JN, Mahomed NN, Harris WH, Phillips CS, Baron J: The Arthritis Foundation (US) (\$450,000 2000 - 2005).*

Predictors of disability outcomes following revision total knee arthroplasty. *Mahomed NN, Davis A, Davey JR, Schemitsch E, Grabuz D, Sczali J, Gignac M, Waddell JP, Gross AE, MacDonald S, Sekundiak T: Canadian Institutes for Health Research (\$195,000 2001 - 2004).*

Shortening the WOMAC for Population Severity Screening: An Item Response Theory Approach. *Davis A, Wright J, Mahomed N, Hawker G, Bourne R, Abrahamowicz M, Kopec J: Canadian Institute of Health Research (CIHR) (\$42,808 2003 - 2004).*

## **HONOURS RECEIVED**

**Mahomed N N:** Smith and Nephew Chair in Orthopedic Research, July 2003.

**Rampersaud YR:** The Wightman-Berris Academy Award for Individual Teaching Excellence, May 2004.



## 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. A. Freiberg - Professor**  
**Dr. J.E. Lipa - Assistant Professor**  
**Dr. R.T. Manktelow - Professor**  
**Dr. P.C. Neligan - Professor (Division Head)**

## PUBLICATIONS

**Addison PD, Neligan PC, Ashrafpour H, Khan A, Zhong A, Moses M, Forrest CR, Pang CY:** Non-invasive remote ischemic preconditioning for global protection of skeletal muscle against infarction. *American Journal of Physiol. Heart Circ. Physiol.* Oct. 2003. 285(4) pp H1 435-443.

**Ang E, Black C, Irish J, Brown DH, Gullane P, O’Sullivan B, and Neligan PC:** Reconstructive options in the treatment of osteoradionecrosis of the craniomaxillofacial skeleton. *British Journal of Plastic Surgery* (2003), 56 – pp 92-99.

**Ashrafpour H, Huang N, Neligan PC, Forrest CR, Addison PD, Moses MA, Levine RH, Pang CY:** Vasodilator effect and mechanism of action of vascular endothelial growth factor (VEGF) in skin vasculature. *American Journal of Physiology:* November 2003: e-pub:

**Beasley NJ, Gilbert RW, Gullane PJ, Brown DH, Irish JC, Neligan PC:** Scalp and forehead reconstruction using free revascularized tissue transfer. *Arch Facial Plast Surg:* January 2004: 6: pp 16-20.

**Beausang ES, Ang EE, Lipa JE, Irish JC, Brown DH, Gullane PJ, Neligan PC:** Microvascular free tissue transfer in elderly patients: The Toronto experience. *Head and Neck:* July 2003: 25(7): pp 549-553.

**Beausang ES, McKay D, Brown DH, Irish JC, Gilbert R, Gullane PJ, Lipa JE, Neligan PC:** Deep inferior epigastric artery perforator flaps in head and neck reconstruction. *Annals of Plastic Surgery:* December 2003: 51(6): pp 561-3.

**Bray PW, Neligan PC, Bowen CV, Boyer MI:** Survival of microvascular epiphyseal allograft transplants following withdrawal of short-term postoperative immunosuppression. *Journal Bone Joint Surgery:* February 2004: 86: pp 281-289.

**Chen R, Anastakis DJ, Haywood CT, Mikulis DJ, Manktelow RT:** Plasticity of the human motor system following muscle reconstruction: A magnetic stimulation and fMRI study. *Clinical Neurophysiology:* December 2003: 114(12): pp 2434-2446.

**Dvali L, Mackinnon SE:** Basic Pathophysiology of the Hand, Wrist, and Forearm: Nerve. In: *Hand Surgery* (Arnold-Peter C Weiss, Richard A Berger, eds). Lippincott Williams & Wilkins, Philadelphia: 2003: 2 pp 37-48.

**Dvali L, Mackinnon SE:** Peripheral Nerve Anatomy, Injury, and Repair. In: *Basic Science for Surgeons* (Argenta, L, eds). WB Saunders, Philadelphia: 2003: Chapter 12: pp 148-162.

**Dvali LT, Brenner MJ, Mackinnon SE:** The Surgical Workforce Crisis: rising to the challenge of caring for an aging America. *Plastic Reconstructive Surgery:* January 2004: 113: pp 893-902.

**Graham B, Regehr G, Wright JG:** Delphi as a method for establish consensus for diagnostic criteria. *Journal of Clinical Epidemiology:* December 2003: 56: pp 1150-1156.

**Kronowitz SJ, Robb GL, Youssef A, Reece G, Chang SH, Koutz CA, Ng RL, Lipa JE, Miller MJ:** Optimizing autologous breast reconstruction in thin patients. *Plastic Reconstructive Surgery:* December 2003: 112(7): pp 1768-78.

**Li J, Shi W, Chai M, Sanchez-Sweetman O, Siatskas C, Huang D, Busson P, Klamut H, Yeh W, Richardson C, O’Sullivan B, Gullane P, Neligan PC, Medin J, Liu F:** Efficacy of targeted fasl in nasopharyngeal carcinoma. *Molecular Therapy:* December 2003: 8: pp 964-973.

**Lipa JE, Butler CE:** Enhancing the outcome of free latissimus dorsi muscle flap reconstruction of scalp defects. *Head & Neck:* January 2004: 26(1): pp 46-53.



**Makitie AA, Beasley NJP, Neligan PC, Lipa JE, Gullane PJ, Gilbert RW:** Head and neck reconstruction with anterolateral thigh flap. *Otolaryngology Head and Neck Surgery*: November 2003: 129(5): pp 547-55.

**Manktelow R, Binhammer P, Tomat L, Bril V, Szalai J:** Carpal tunnel syndrome: a cross sectional and outcome study in ontario workers. *The Journal of Hand Surgery*: March 2004: 29: pp 307-317.

**Neligan PC:** Current issues and future directions in head and neck reconstruction. *Plastic Surgery*: November 2003: 27: pp 345-349.

**Neligan PC:** Invited discussion: recipient vessel analysis for microvascular reconstruction of the head and neck. *Ann Plast Surg*: February 2004: 52: pp 156-157.

**Neligan PC:** Will the real plastic surgeon please stand up!. *Plastic and Reconstructive Surgery*: September 2003: 113: pp 1279-80.

**Neligan PC, Gullane PJ, Gilbert RW:** Functional reconstruction of the oral cavity. *World Journal of Surgery*: July 2003: 27: pp 856-62.

**O'Sullivan B, Gullane P, Irish J, Neligan PC, Gentili F, Mahoney J, Sellmann S, Catton C, Waldron J, Brown D, Witterick I, Freeman J, Bell R:** Preoperative radiotherapy for adult head and neck soft tissue sarcoma: assessment of wound complication rates and cancer outcome in a prospective series. *World Journal of Surgery*: July 2003: 27: pp 875-83.

**Panchapakesan V, Addison P, Beausang ES, Lipa JE, Gilbert RW, Neligan PC:** Role of thrombolysis in free flap salvage. *Journal of Reconstructive Microsurgery*: November 2003: 19(8): pp 523-30.

**Robert Chen, Dimitri J. Anastakis, Catherine T. Haywood, David J. Mikulis, Ralph T. Manktelow:** Plasticity of the human motor system following muscle reconstruction: a magnetic stimulation and functional magnetic resonance imaging study. *Clinical Neurophysiology*: July 2003: 114: pp 2434.

**Singham J, Manktelow RT, Zuker RM:** Mobius syndrome. *Plastic Surgery*: February 2004: 18: pp 39-45.

**Zhong T, Gullane PJ, Neligan PC:** Double latissimus dorsi flaps for reconstruction of extensive scalp defects. *The Canadian Journal of Plastic Surgery*. 2003. 11(2) pp 79-82.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Anastakis DJ:** 20th Annual Meeting of the American Society for Reconstructive Microsurgery, Palm Springs, California, January 2004. ASRM/ASPN Combined Panel: Functioning Muscle Transfers  
D. J. Anastakis: Shoulder and Elbow Reconstruction.

**Anastakis DJ:** The Atlantic Society of Plastic Surgeons, 10th Annual Meeting, Fredericton, New Brunswick, September 2003. 1). Assessment and Management of Acute Brachial Plexus Injuries. 2). Diagnosis and Management of Chronic Ulnar Collateral Ligament Injuries. 3). Two-Stage Flexor Tendon Reconstruction.

**Anastakis DJ:** Post IFSSH (International Federation for Societies of Surgery of the Hand) 2004 Conference, Bucharest, Romania, June 2004. Management of Axillary Nerve Lesions.

**Bell T:** Canadian Society of Aesthetic Plastic Surgeons, Edmonton, Alberta, September 2003. 1). Extended Temporal Incision in Rhytidectomy. 2). Review of 2002 Surgical Cases.

**Bell T:** IPRAS Scientific Congress XII, Sydney, Australia, August 2003. 1). Facelift- Invited Panelist. . 2). Necklift-Chairman of Panel.

**Bell T:** The Atlantic society of Plastic Surgeons, Fredericton, NB, September 2003. 1). Management of the Aging Face. 2). University of Toronto Aesthetic Clinic.

**Lipa JE:** Wellspring, Toronto, ON, May 2004. Breast Reconstruction: Information and Discussion.

**Lipa JE:** Plastic Surgery Research Council, Ann Arbor, MI, June 2004. Moderator: Scientific Session 6B - Micro/Limb Transplantation/ Flap Physiology & Nerve.



**Manktelow RT:** University of Michigan, Southfield, Michigan, June 2004. 1). Evaluation of Facial Reconstruction. 2). Facial Paralysis Reconstruction.

**Manktelow RT:** American Society of reconstructive microsurgery,,Palm Springs, California, U.S.A., January 2004. Functioning muscle transplatatiton to the extremity and face. 2).The workmanship of risk and the pursuit of excellence. 3). As we were then and where we are now.

**Neligan PC:** American Society of Plastic Surgeons, San Diego, California, October 2003. 1. Instructional Course: Multimedia presentations in education. 2. Instructional Course: Lip reconstruction following tumour ablation. 3. Session Moderator: Educational technology session. 4. Session Moderator: General reconstruction session.

**Neligan PC:** Gordon W. Bethune Visiting Professor, Department of Surgery, Dalhousie University, May 2004. 1. Management of skin cancer. 2. Reconstruction of the lip. 3. Management of complex surgical defects. 4. Gordon W. Bethune Lecture: Plagiarism, serendipity and bloody mindedness.

**Neligan PC:** 18th Annual Virgin Island Workshop in Plastic Surgery, St.John USVI, February 2004. 1. Palliative surgery: Reasonable or irresponsible 2. Pedicled anterolateral thigh flap: Useful addition in pelvic reconstruction.

**Neligan PC:** North American Skull Base Society, New Orleans, February 2004. 1. Session Moderator 2. Breakfast with the Professors: Anterior cranial base reconstruction 3. Panelist: Tumor Board 4. Panelist: Reconstructive approaches in skull base surgery.

**Neligan PC:** Canadian Society of Plastic Surgeons, Hamilton, Ontario, June 2004. Eye-opener session: Perforator flaps.

**Neligan PC:** American Society for Reconstructive Microsurgery, Palm Springs, January 2004. 1). Moderator: Head & Neck Reconstruction. 2). Instructional Course: Craniofacial Reconstruction. 3). Resident/Fellow Symposium: Iliac Crest. 4). Session Moderator: Head and Neck.

**Neligan PC:** Stanford University, Palo Alto, California, October 2003. Visiting Professor: Microsurgery: Past, present and future.

**Neligan PC:** University of Washington, Seattle, Washington, October 2003. Visiting Professor: The role of perforator flaps in reconstructive surgery.

**Neligan P:** Visiting Professor, University of Massachusetts, Worcester, Massachusetts, September 24, 2003. 1). Current status of reconstructive Microsurgery. 2). Flap Physiology.

**Neligan P:** Visiting Professor, McMaster University, Hamilton, Ontario. October 3, 2003. The Impact of Perforator Flaps in Reconstructive Surgery.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

Cortical mapping of surgical residents on tasks of surgical and mental rotations. *Wanzel KR, Anastakis DJ, Hamstra SJ, Mikulis D, McAndrews MP: Centre for Excellence in Surgical Education, Research and Training (CESERT) (\$26,787 2002 - 2003).*

Cortical plasticity following thumb reconstruction. *Murji A, Anastakis DJ: The Toronto Hospital Research Institute. University of Toronto, Faculty of Medicine (\$4,000 2003).*

Defining the role of electrodiagnostic testing in the diagnosis of carpal tunnel syndrome. *Graham B, Ashby P: Research Advisory Council, Workplace Safety and Insurance Board (\$45,472 2003 - 2004).*

Defining the role of electrodiagnostic testing in the diagnosis of carpal tunnel syndrome. *Graham B, Ashby P: Workplace Safety and Insurance Board (\$43,685 2003 - 2004).*

Development of a scoring system for evaluation of facial paralysis. *Dr. R. T. Manktelow, Zuker RM, Binhammer P, Lipa JE, Tomat L: The Physicians' Services Incorporated Foundation (\$47,600 2002 - 2003).*

Development of questionnaire to assess the effectiveness of facial paralysis reconstruction. *RT Manktelow, P Binhammer: Physicians Services Incorporated (\$68,000 2003 - 2004).*

Diversity practices at University Health Network: A needs assessment. *Guruge S, Silvera J, Sidani S, Ferguson-Pare M, Anastakis DJ: Nursing, University Health Network (\$4,305 2003 - 2004).*

Global protection of skeletal muscle against ischemic necrosis and vascular dysfunction by non-invasive remote ischemic preconditioning: Efficacy and mechanism. *Pang, CY, Forrest CR, Neligan, PC: Canadian Institutes for Health Research (\$72,648 2003 - 2006).*

Head and Neck Cancer Research. *Neligan PC, Gullane PJ: RE Wharton Esq (\$1,200,000 2002 - 2012).*

Ischemic preconditioning of human skeletal muscle. *Lipa JE, O'Blencs C: The Physicians Services Incorporated Foundation (\$20,000 2002 - 2004).*

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).*

Regional anesthesia versus general anesthesia for ambulatory upper limb surgery. *McCartney, C, Anastakis D, Chan V, Graham B, Katz J, von Schroeder H: Physician's Services Incorporated Foundation (\$43,685 2002 - 2003).*

Return to Work Outcomes After Digital Replantation: A Multidimensional Analysis. *Linda Dvali: Rehabilitations Solutions Research Advisory Board (\$9,750 2004 - 2005).*

Skin flap ischemia: Pathophysiology and pharmacological intervention. *Cho Y Pang, Peter C. Neligan: CIHR (\$402,800 2001 - 2006).*

## **HONOURS RECEIVED**

**Anastakis DJ:** University of Toronto, Medical School Research Day. Poster entitled "Cortical plasticity following thumb reconstruction". George Brown Memorial Award for Clinical Research, received by Year II, Medical Student, Ally Murji., January 2004.

**Lipa JE:** Arnis Freiberg Teaching Excellence Award - outstanding contributions to Plastic Surgery Resident Education, University of Toronto, March 2004.

**Neligan P:** University of Toronto Surgical Skills Lab Distinguished Teacher Award, 2004.

**Neligan P:** Plastic Surgery Research Council – Shenaq Award – Supervisor, June 2004.



## **DIVISION OF THORACIC SURGERY**

**Dr. G.E. Darling - Associate Professor**

**Dr. M.R. Johnston - Associate Professor**

**Dr. S. Keshavjee – Professor (Division Head)**

**Dr. M. Liu - Professor**

**Dr. A.F. Pierre - Assistant Professor**

**Dr. T.K. Waddell - Assistant Professor**

## **PUBLICATIONS**

**Cardella JA, Keshavjee S, Bai XH, Yeoh JS, Granton JT, Meade MO, Matte-Martyn A, Waddell TK, Liu M:** Increased expression of nitric oxide synthase in human lung transplants after nitric oxide inhalation. *Transplantation*: March 2004: 77(6): pp 886-90.

**Darling G, Brandt M, Miller L:** Symptoms, acid exposure, and motility in patients with Barrett's esophagus. *Canadian Journal of Surgery*: February 2004: pp 47.

**Davies, AM, Evans, WK, Mackay, JA, Shepherd, FA:** Treatment of recurrent small cell lung cancer. *Hematology/Oncology Clinics of North America*: April 2004: 18: pp 387-416.

**de Perrot M, Bril V, McRae K, Keshavjee S:** Impact of minimally invasive trans-cervical thymectomy on outcome in patients with myasthenia gravis. *European Journal of Cardiothoracic Surgery*: November 2003: 24(5): pp 677-83.

**de Perrot M, Chaparro C, McRae K, Waddell TK, Hadjiladis D, Singer LG, Pierre AF, Hutcheon M, Keshavjee S:** Twenty-year experience of lung transplantation at a single center - Influence of recipient diagnosis on long-term survival. *Journal of Thoracic and Cardiovascular Surgery*: May 2004: 127: pp 1493-1501.

**de Perrot M, Keshavjee S:** Lung preservation. *Chest Surgery Clinics of North America* WB Saunders Company, Philadelphia, PA: 2003: pp. 443-462.

**de Perrot M, Keshavjee S:** Lung Transplantation: Lung preservation. *Chest Surgery Clinics of North America*: August 2003: 13(3): pp 443-62.

**de Perrot M, Weder W, Patterson GA, Keshavjee S:** Strategies to increase limited donor resources. *European Respiratory Journal*: January 2004: 23: pp 1-6.

**De Perrot MK, Young Y, Imai M, Liu T K, Waddell S, Fischer L, Zhang S, Keshavjee S:** Recipient T cells mediate reperfusion injury after lung transplantation in the rat. *The Journal of Immunology*: November 2003: 171(10): pp 4995-5002.

**De Perrot M, M Liu, TK, Waddell S, Keshavjee S:** Ischemia-reperfusion-induced lung injury. *American Journal of Respiratory and Critical Care Medicine*: September 2003: 167(4): pp 490-511.

**DePerrot M, Young K, Imai Y, fischer S, Liu M, Waddell TK, Zhang L, Keshavjee S:** Involvement of donor T cells in the regulation of ischemia-reperfusion injury during lung transplantation. *Journal of Immunology*: November 2003: 171: pp 4995-5002.

**Dolmage TE, Waddell TK, Maltais F, Guyatt GH, Todd TR, Keshavjee S, van Rooy S, Krip B, LeBlanc P, Goldstein RS:** The influence of lung volume reduction surgery on exercise in patients with COPD. *European Respiratory Journal*: February 2004: 23(2): pp 269-74.

**Fischer S, de Perrot M, Cardella J, MacLean A, Imai Y, Suga M, Liu M, Keshavjee S:** IL-10 gene transfection of donor lungs ameliorates post transplant cell death by a switch from cellular necrosis to apoptosis. *Journal of Thoracic and Cardiovascular Surgery*: October 2003: 126(4): pp 1174-80.

**Janssen LJ, Tazzeo T, Zuo J, Pertens E, Keshavjee S:** KCI evokes contraction of airway smooth muscle via activation of Rho A and Rho-Kinase. *American Journal Physiology Lung Cell Molecular Physiology*: June 2004: ePubMed:

**Laurie SA, Logan D, Markham BR, Mackay JA, Evans WK, and the Lung Cancer Disease Site Group:** Practice guideline for the role of combination chemotherapy in the initial management of limited-stage small-cell lung cancer. *Lung Cancer*: February 2004: 43: pp 223-40.

**Lee JH, Del Sorbo L, Uhlig S, Porro, GA, Whitehead T, Voglis S, Liu M, Slutsky AS, Zhang H:** Intercellular adhesion molecule-1 mediates cellular cross-talk between parenchymal and immune cells after lipopolysaccharide neutralization. *Journal of Immunology*: January 2004: 172(1): pp 608-616.

**Liu J, Tsao MS, Pagura ME, Shalinsky DR, Khoka R, Fata J, Johnston MR:** Early combined treatment of Carboplatin and the MMP inhibitor, Primomastat, prolongs survival and reduces systemic metastasis in an aggressive orthotopic lung cancer model. *Lung Cancer*: August 2003: 42(3): pp 335-344.

**Maziak, DE, Markman, BR, Mackay, JA, Evans, WK, and the Lung Cancer Disease Site Group:** Photodynamic therapy in non-small cell lung cancer: A systematic review. *Annals of Thoracic Surgery*: April 2004: 77: pp 1484-91.

**McKneally MF, Daar AS:** "Introducing new technologies: Protecting subjects of surgical innovation and research". *World Journal of Surgery*: August 2003: 27: pp 930-934.

**Okawara, G, Ung, YC, Markman BR, Mackay JA, Evans WK, and the Lung Cancer Disease Site Group:** Postoperative radiotherapy in Stage II or IIIA completely resected non-small cell lung cancer: A systematic review and practice guideline. *Lung Cancer*: April 2004: 44: pp 1-11.

**Orens J, Waddell T, Boehler A, de Perrot M, Estenne M, Glanville A, Keshavjee S, Kotloff R, Morton J, Van Raemdonck D, Snell G:** A review of lung transplant donor acceptability criteria. *Journal of Heart and Lung Transplantation*: November 2003: 22(11): pp 1183-200.

**Parsons J, Johnston MR, Slutsky A,:** Predicting length of stay out of hospital following lung resection using preoperative health status measures. *Quality of Life Research*: September 2003: 12 (6): pp 645-654.

**Sekine Y, Waddell TK, Matte-Martyn A, Pierre AF, de Perrot M, Fischer S, Marshall J, Granton J, Hutcheon MA, Keshavjee S:** Risk quantification of early outcome after lung transplantation: Donor, recipient, operative and post-transplant parameters. *Journal of Heart and Lung Transplantation*: January 2004: 23(1): pp 96-104.

**Zlotnik Shaul R, McKneally MF:** Ethical aspects of clinical trials. *Seminars in Thoracic and Cardiovascular Surgery*: October 2003: 15: pp 380-385.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Darling GE:** National Cancer Institute of Canada, Toronto, Ontario, April 2004. Chemotherapy/XRT vs Chemotherapy/XRT/Surgery for Stage IIIA (N2) NSCLC- Final report.

**Darling GE:** Canadian Association of Thoracic Surgeons, Vancouver, British Columbia, August 2003. Clinical Trials.

**Darling GE:** Ontario Respiratory Residents' Symposium, Niagara, Ontario, February 2004. Pleural Disease.

**Darling GE:** Meeting of the Minds Symposium, International Association for the Study of Lung Cancer, Vancouver, British Columbia, August 2003. The role of surgery for N2 disease in non-small cell lung cancer.

**Johnston MR:** Plenary Session, International Association for the Study of Lung Cancer, Vancouver, BC, August 2003. Most Influential Papers in Thoracic Surgery.

**Keshavjee S:** Mayo Clinic, Rochester, Minnesota, May 2004. 1. Gene therapy in lung transplantation; 2. Management of primary graft dysfunction.

**Keshavjee S:** National Institutes of Health (NIH/NHLBI) Lung Transplant Workshop, Bethesda, Maryland, June 2004. 1. What are the limits of donor lung function?; 2. The role of bile acids in the development of bronchiolitis obliterans.

**Keshavjee S:** International Association for the Study of Lung Cancer 10th World Conference on Lung Cancer, Vancouver, British Columbia, August 2003. 1). 15 years single center experience with surgical resection of the superior vena cava for non-small cell lung cancer. 2). A phase II trial of induction chemotherapy followed by extrapleural pneumonectomy and high-dose hemithoracic radiation for malignant pleural mesothelioma.

**Keshavjee S:** University of Iowa, Division of Pulmonary Medicine and Gene Therapy Vector Core, Iowa City, Iowa, December 2003. Gene therapy in transplantation.

**Keshavjee S:** Canadian Council for Donation and Transplantation, Mt. Tremblant, Quebec, February 2004. Lung donor management.

**Keshavjee S:** University of Minnesota, Department of Surgery and Department of Pulmonary Medicine, Minneapolis, Minnesota, February 2004. Lung injury in transplantation.

**Keshavjee S:** Forum Recommendation Group, Canadian Council for Donation and Transplant, Mt. Tremblant, Quebec, February 2004. Lung Preservation.

**Keshavjee S:** Lion's Club, Kitchener, Ontario, April 2004. Lung Transplantation.

**Keshavjee S:** International Society for Heart and Lung Transplantation, Satellite Symposium: Primary Graft Dysfunction after Lung Transplantation, San Francisco, California, April 2004. Management of primary graft dysfunction.

**Keshavjee S:** European Respiratory Society, Vienna, Austria, September 2003. Mechanisms of fibrosis in bronchiolitis obliterans.

**Keshavjee S:** Myasthenia Gravis Society of Ontario, Toronto, Ontario, February 2004. Surgical therapy for myasthenia gravis.

**Keshavjee S:** Trillium Health Centre, Mississauga, Ontario, June 2004. Surgical treatment of lung cancer - Grand Rounds.

**Keshavjee S:** University of Hanover, Hanover, Germany, September 2003. The influence of recipient diagnosis on long term survival after lung transplantation.

**Keshavjee S:** International Association for the Study of Lung Cancer 10th World Conference on Lung Cancer, Vancouver, British Columbia, August 2003. The risk of right pneumonectomy: The role of bronchopleural fistula.

**McKneally MF:** Harvard Medical International, University of Lausanne, Lausanne, Switzerland, May 2004. "Ethics of Innovation".

**McKneally MF:** Joint meeting of the Canadian Bioethics Society and the American Society for Bioethics and Humanities, Montreal, QC, October 2003. "Protecting Participants in Surgical Innovation".

**Mingyao Liu:** 7th Meakins-Christie Workshop, McGill University, Montreal, Quebec, January 2004. Lung epithelial cells and acute inflammation.

**Mingyao Liu:** Meakins-Christie Laboratories, McGill University, Montreal, Quebec, October 2003. Molecular mechanisms of acute lung injury.



**Mingyao Liu:** Southern Ontario Gene Therapy Meeting, 2004, Langdon Hall, Cambridge, Ontario, May 2004. XB130, a potential gene for therapy.

**Pierre AF:** Trillium Gift of Life Network, Toronto, ON, December 2003. Management of the multi-organ donor for Lung Transplantation.

## RESEARCH AND INVESTIGATIONS

### *Senior Investigator's Name Appears in Italics*

A Phase III Prospective Randomized, Double-Blind, Placebo-Controlled Trial of the Epidermal Growth Factor Receptor Antagonist, ZD1839 (IRESSA) in Completely Resected Primary Stage IB, II and IIIA Non-Small Cell Lung Cancer (BR-19). *Darling, GE, National Cancer Institute of Canada* (\$72,000 2002 - 2004).

A prospective feasibility study to evaluate the safety and performance of the Exhale system with stents in patients with emphysema. *TK Waddell, Keshavjee S: Broncus Technologies Inc* (\$165,070 2003 - 2004).

A randomized double blind phase II study of preoperative Celecoxib/Paclitaxel/Carboplatin for Stage IIIA non-small cell lung cancer. *Darling, GE, N, Al-Torki, Shepherd, F, Leighl, N, Keshavjee, S, Johnston, M, Waddell, T, Pierre, A: Cornell University and Pfizer* (\$7,500 2004).

A Randomized Phase III Trial of Surgery Alone or Surgery -Plus Preoperative Paclitaxel/Carboplatin in Clinical Stage IB (T2N0,) II (T1-2N1, T3N0) and Selected IIIA (T3N1) Non-small Cell Lung Cancer (BR-22) (SWOG 9900). *Darling GE, National Cancer Institute of Canada* (\$30,000 2002 - 2004).

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 lung cancer (ZOO30). *M. Allen, G. Darling, R. Ginsberg: American College of Surgeons Oncology Group* (\$260,000 2000 - 2004).

CF Transplant Centre Grant. *Keshavjee S, Hutcheon M, Toronto Lung Transplant Program: Canadian Cystic Fibrosis Foundation* (\$57,654 2003 - 2004).

Development of a treatment protocol and small animal model for malignant mesothelioma. *Johnston MR, Feld R, Tsao MS: Canadian Conference of Asbestos Workers Fund* (\$39,000 2003 - 2004).

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

Gene expression in xenograft accommodation. *Waddell TK: Physician Services Incorporated Foundation* (\$123,321 2001 - 2003).

Gene therapeutic strategies for transplant related lung injury. *Keshavjee S: CIHR - Canadian Institutes of Health Research* (\$523,432 2003 - 2008).

Health related quality of life in advanced lung disease and transplantation. *Liane Singer, Thomas K. Waddell, John Granton, Elizabeth Tullis, Murray Krahn: Physician Services Incorporated Foundation* (\$154,000 2002 - 2004).

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

Mechanisms of tumour cell invasion and metastasis of lung cancer cells. *Hu J, Johnston MR, Tsao M: Grant Miller Cancer Research Fund* (\$20,000 2001 - 2003).

Mechanotransduction and ventilator-induced acute lung injury. *Dr. Mingyao Liu: Canadian Institutes of Health for Research, Operating Grant, MOP-13270* (\$600,000 2001 - 2006).

Molecular mechanisms of allograft transplant-induced airway obliterative lesions. *Shaf Keshavjee, Mingyao Liu: Canadian Cystic Fibrosis Foundation, Operating Grant* (\$240,000 2003 - 2006).

Novel molecular prognostic markers and potential therapeutic targets in non small cell lung cancer. *Tsao, Ming Sound, Johnston MR, Lam W, Der S, Pintilie M, Wigle D, Zhu CQ, Coe B, Liu J: National Cancer Institute of Canada* (\$750,000 2004 - 2009).

Role of esophageal reflux in chronic rejection of the transplanted lung. *Pierre, Andrew F, Keshavjee S: Ontario Thoracic Society / Block Term Grant* (\$10,000 2003 - 2005).

Signal cross-talk in acute lung injury. *Mingyao Liu: Canadian Institutes of Health for Research, Operating Grant, MOP-42546* (\$655,000 2003 - 2008).

The clinical impact of community-acquired viral respiratory tract infections in lung transplant recipients: a prospective study. *A Humar, S Keshavjee: Physicians' Services Incorporated Foundation* (\$92,000 2002 - 2004).

The impact of Positron Emission Tomography (PET) Imaging in staging potentially surgically resectable non-small cell lung cancers: A prospective multicenter randomized clinical trial. *Darling, GE, Maziak, D, Keshavjee, S, Johnston, M, Waddell, T, Pierre, A: Ontario Clinical Oncology Group* (\$1,250 2004).

Xenotransplantation. *Waddell TK: Canadian Foundation for Innovation, New Opportunities Grant* (\$150,000 2000 - 2003).

## HONOURS RECEIVED

**Darling GE:** Ross Fleming Surgical Educator Award, May 2004.

## DIVISION OF UROLOGY

**Dr. N. Fleshner – Associate Professor (Division Head)**

**Dr. M.M. Hassouna - Associate Professor**

**Dr. M.A.S. Jewett - Professor**

**Dr. S.B. Radomski - Associate Professor**

**Dr. M. Robinette - Associate Professor**

**Dr. J. Trachtenberg - Professor**

## PUBLICATIONS

**Binmahfooz A, Elmayergi N Abdelhady M, Wang J, Hassouna M:** Parametres of successful sacral nerve neuromodulation of the pelvic floor: a retrospective study. *Canadia Journal of Urology*: June 2004: 11: pp 1749-1754.

**Alibhai SM, Naglie G, Nam R et. al:** Do older men benefit from curative therapy of localized prostate cancer? *Journal of Clinical Oncology*: September 2003: 21 (17): pp 3318-27.

**Chung PW, Warde PR, Panzarella T, Bayley AJ, Catton CN, Milosevic MF, Jewett MAS, Sturgeon JFG, Moore M, Gospodarowicz MK:** Appropriate radication volume for stage IIA/B testicular seminoma. *International Journal of Radiation Oncology, Biology, Physics*: July 2003: 56: pp 746-748.

**Chung PWM, Gospodarowicz KM, Panzarella T, Jewett MAS, Sturgeon JFG, Tew-George B, Bayley AJS, Catton CN, Milosevic MF, Moore M, Warde PR:** Stage II testicular seminoma: patterns of recurrence and outcome of treatment. *European Urology*: March 2004: 45: pp 754-760.

**Evans AJ, Gallie BL, Jewett MAS, Pond GR, Vandezande K, Underwood J, Fradet YL, Lim G, Squire JA:** Defining a 0.5Mb minimal region of genomic gain on chromosome 6p22 in bladder cancer using quantitative-multiplex polymerase chain reaction. *American Journal of Pathology*: January 2004: 164: pp 285-293.

**Grober E, Matsumoto E, Chin J, Jewett MAS:** The Canadian Urology Fair: A model for minimizing the financial and academic costs of the residency selection process. *Canadian Journal of Surgery*: December 2003: 46: pp 458-462.

**Grober ED, Tshlias J, Jewett MA, Sweet JM, Evans AJ, Trachtenberg J, Robinette M, Nam RK:** Correlation of the primary Gleason pattern on prostate needle biopsy with clinico-pathological factors in Gleason 7 tumors. *Canadian Journal of Urology*: February 2004: 11 (1): pp 2157-62.

**Hassouna M, Abdelhady M and Elmayerghi N:** Update on sacral neuromodulation: Indications and Outcome. *Current Urology Reports*: October 2003: 4: pp 391-398.

**Hassouna M, Abdelhady M, Elmayergi N:** Hormonal replacement in men. *Parkhurst Exchange*: August 2003: 11: pp 79-84.

**Hassouna M, Elmayergi N, Abdelhady M:** Pathophysiology of Spinal Cord Injury. In: *Textbook of the Neurogenic Bladder Adult and Children* (J. Corcos and E. Schick, ed). Martin Dunitz LTD, London GB: 2004: pp 177-191.

**Jewett MAS, Grabowski A, McKiernan J:** Management of recurrence and follow-up strategies for pateints with nonseminoma testis cancer. *Urologic Clinics of North America*: December 2003: 30: pp 819-830.

**Nam RK, Zhang WW, Trachtenberg J, et. al:** Comprehensive Assessment of Candidate Genes and Serological Markers for the Detection of Prostate Cancer. *Clinical Epidemiology, Biomarkers & Prevention*: December 2003: 12 (12): pp 1429-37.

**Pop M, Molckovsky A, Chin L, Kolios MC, Jewett MAS, Sherar MD:** Changes in dielectric properties at 460 kHz of kidney and fat during heating: importance for radio-frequency thermal therapy. *Physics, Medicine, Biology*: July 2003: 48: pp 2509-2525.

**Radomski SB:** Canadian Diabetes Association Clinical Practice Guidelines Expert Committee. *Canadian Diabetes Assocation 2003 Clinical Practice Guidelines for the Prevention and Management of Diabetes in Canada: Erectile Dysfunction Section*. *Canadian Journal of Diabetes*: December 2003: 27(suppl): pp S81-S82.

**Radomski SB, Caley B, Reiz JL, Miceli PC, Harsanyi Z, Darke AC:** Preliminary evaluation of a new controlled-release oxybutynin in urinary incontinence. *Clinical Medical Research and Opinion*: January 2004: 20: pp 249-253.

**Teichman JMH, Matsumoto E, Smart M, Smith AE, Tongco W, MacNeilly A, Hosking D, Jewett M:** How do residents in Canada manage their personal finances? *Canadian Journal of Surgery*: May 2004:

**Trudel S, Trachtenberg J, Toi A, Sweet J, Li ZH, Jewett M, Tshlias J, Zhuang LH, Hitt M, Wan Y, Gaudie J, Graham FL, Dancey J, Stewart K:** A phase I trial of adenovector-mediated delivery of interleukin-2 (AdIL-2) in high-risk localized prostate cancer. *Cancer Gene Therapy*: October 2003: 10: pp 755-763.

**INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

- Hassouna MM:** Grand Rounds at The Lakeshore West Medical Professional center, Toronto Ontario, May 2004. Management of Nocturia.
- Hassouna MM:** International Society of Pelvic Neuromodulation, Lajolla, California, January 2004. Moderator Abstract session at the Third Annual Meeting of the International Society of Pelvic Neuromodulation.
- Jewett MAS:** Canadian Urological Association, Whistler, British Columbia, June 2004. A). Chair Educational Forum Laparoscopy in Uro-Oncology. B). Moderator UroOncology Session.
- Jewett MAS:** Mexican Society of Urological Oncology, Veracruz, Mexico, July 2003. A). Critical analysis of radical laparoscopic prostatectomy. B). High risk superficial bladder cancer treatment.
- C). Radical surgery vs brachytherapy: interactive discussion with clinical cases. D). Role of lymphadenectomy in bladder cancer. E). Stage I non-seminomatous germ cell tumor of the testis: role of surveillance. F). Tricks of the trade in radical retropubic prostatectomy.
- Jewett MAS:** Heinrich Warner Foundation Program 2003 VIII. Symposium Renal Cell Carcinoma: Progress in Basic Research, Diagnosis, Surgical and Surgical Therapy, Hamburg, Germany, October 2003. Current limitations of radiofrequency in RCC.
- Jewett MAS:** Washington Urological Society, Washington, District of Columbia, April 2004. Early stage kidney cancer: Active surveillance with delayed nephrectomy and less invasive management of small renal masses.
- Jewett MAS:** Clinica de Marly, Bogata, Columbia, March 2004. Early Stage Kidney Cancer: Are There Complimentary Roles for Immediate Surgery, Active Surveillance with Delayed Nephrectomy and the Less Invasive Therapies.
- Jewett MAS:** 21st World Congress on Endourology, Montreal, Quebec, September 2003. A). Highlights of the MIS-Oncology Day Plenary Session. B). MIS Oncology Day Plenary Session: Nephron sparing options for small renal masses: Observation.
- Jewett MAS:** George Washington University Department of Medicine, Washington, District of Columbia, April 2004. Kidney Cancer: Natural History and Less Invasive Management of Small Renal Masses.
- Jewett MAS:** Urology 2014: A Decade of Progress, Queen's University Department of Urology, Kingston, Ontario, April 2004. Management of Bladder Cancer.
- Jewett MAS:** GU Site Group Rounds, Cancer Care Manitoba, Winnipeg, Manitoba, May 2004. Management of High Risk Superficial Bladder Cancer.
- Jewett MAS:** Newmarket Prostate Cancer Support Group, Newmarket, Ontario, May 2004. Management of Prostate Cancer.
- Jewett MAS:** Interational Consultation on Prosate Cancer, Whistler, British Columbia, March 2004. Moderator Debate: Be it resolved that all men over 50 should undergo prosate biopsy.
- Jewett MAS:** Clinica de Marly, Bogata, Columbia, March 2004. Testis Cancer: Current Management Issues and Minimizing Morbidity of Treatment.
- Jewett MAS:** Division of Urology, University of Manitoba, Winnipeg, Manitoba, May 2004. Testis cancer: Current management issues and minimizing morbidity of treatment.
- Jewett MAS:** Haliburton Highlands Prostate Cancer Support Group, Minden, Ontario, July 2003. What you need to know about Prostate Cancer.
- Trachtenberg J:** 21st World Congress on Endourology, Montreal, Quebec September 2003. Novel treatments of localized prostate cancer.
- Trachtenberg J:** Weizmann Institute of Science, Rehovot, Israel, July 2003. Photodynamic Therapy for localized prostate cancer.

**RESEARCH AND INVESTIGATIONS***Senior Investigator's Name Appears in Italics*

A phase I/II study to examine the safety, feasibility, immunological response and measures of clinical antitumor activity after administering unselected, autologous, amplified tumor total RNA-transfected, dendritic cell vaccine (MB-002) to patients with metastatic renal cell carcinoma. *Jewett, MAS, Knox, J: Merix Bioscience Inc.* (\$150,000 2003 - 2004).

A phase II study of R115777 (Zarnestra) in superficial transitional cell carcinoma of bladder. *Chin, JL, Jewett MAS, Whelan P: NCI (US) Phase II Consortium* (\$30,000 2002 - 2004).

Canadian Study of the effectiveness of Alfuzocin 10 mg once daily in improving lower urinary symptoms and maintaining sexual function in patients with BPH. *Magdy M Hassouna: Sanofi-Synthelabo Canada Inc* (\$5,000 2002 - 2003).

Couple's Decision-Making and Adaptation in Prostate Cancer Treatment. *Ritvo P, Mathew A, Irvine J, Trachtenberg J, Jewett M, Shaw B, Krahn M: Canadian Prostate Cancer Research Initiative* (\$49,887 2003 - 2004).

Development and evaluation of Internet training courses in cancer patients. *Eysenbach G, Jewett MAS, Trachtenberg JT, Gospodarowicz MR, Catton P, Jadad A: The Change Foundation* (\$200,000 2002 - 2004).



Development of a prostate cancer prevention clinic. *Trachtenberg J, Ritvo P, Paterson A, Squire J, Yue C, Matthew AG: Princess Margaret Hospital Foundation* (\$1,000,000 2000 - 2010).

Development of Novel Minimally Invasive Surgical Techniques. *Trachtenberg J: Princess Margaret Hospital Foundation* (\$2,500,000 2003 - 2008).

Differential Gene Expression in Prostate Cancer. *Squire J, Zeielensa M, Sweet J, Jewett MAS, Trachtenberg J., Klotz L, Kapusta L: National Cancer Institute of Canada* (\$366,550 2000 - 2003).

Effects of an alpha adrenergic blocker in men with a first episode of acute urinary retention. *Trachtenberg J: Sanofi-SyntheLabo* (\$30,000 2002 - 2003).

Effects of an endothelin inhibitor on hormone naive prostate cancer. *Trachtenberg J: Abbott Laboratories* (\$36,000 2002 - 2003).

Effects of photodynamic therapy on recurrent or persistent localized prostate cancer following radiation therapy failure. *Trachtenberg J, Wilson BC, Haider M: Negma Lerads* (\$375,000 2002 - 2003).

Efficacy of EB1089 enteric-coated capsules (5 ug) or placebo in inducing apoptosis in patients with prostate cancer. *Klotz L, Jewett MAS, Morash D: Leo Pharmaceuticals* (\$16,000 1999 - 2003).

Flourescence-guided radical prostatectomy. *Trachtenberg J, Wilson B, Sharir S, Bogaards A, Evans A: National Cancer Institute of Canada* (\$49,951 2003 - 2004).

Genetic immunotherapy of cancer. *Alexander Keith Stewart, Gauldie J, Graham FL, Hitt MM, Trachtenberg J: CIHR* (\$843,500 2001 - 2005).

Identification of preoperative prognostice factors for small RCC. *Rendon R, Nassar, Jewett MAS, Klotz LH: Capital District Health Authority Research Foundation* (\$100,000 2003 - 2005).

Novel Minimally Invasive Surgery for GU Tumours. *Sherar MD, Trachtenberg J, Wilson BC: Ontario Consortium Image Guided Therapy & Surgery* (\$1,000,000 2003 - 2004).

Population-based Estimates of Cost and Quality of Life in Prostate Cancer Survivors. *Krahn M, Holowaty E, Naglie I, Irvine MJ et al: CIHR* (\$106,196 2002 - 2007).

Protocol C-100-12, a multi-center, randomized phase III study of adjuvant Oncophage<sup>ae</sup> versus observation in patients with high risk of recurrence after surgical treatment fro renal cell carcinoma. *Jewett, MAS: Antigenics* (\$30,000 2001 - 2004).

Randomized study to investigate the efficacy and safety of treatment with Dutasteride and Tamsulosin once daily for 4 years on the improvement of symptoms and outcome of beign prostatic hyperplasia. *Magdy M. Hassouna: Glaxo-Smith-Kline Pharmaceutical* (\$15,000 2004 - 2008).

Self-efficacy in response to dietary counseling related to prevention of the onset and recurrence of prostate cancer. *Ritvo PG, Matthew AG, Irvine J, Willms D, Katz J, Shaw B, Trachtenberg J, Jewett M, Fleshner N: Princess Margaret Hospital Foundation* (\$10,000 2004).

Surgical Oncology Fellowship to Dr. A. Volpe, Research Fellow. *Jewett M: Ontario Cancer Research Network* (\$25,000 2004).

The SELECT Trial. *Trachtenberg J, Jewett M, Tshilias J: National Cancer Institute (USA), SWOG* (\$250,000 2000 - 2009).

## HONOURS RECEIVED

**Jewett MAS:** Supervised Mr. Sanoj Punnen, UofT IMS Summer Student Poster Session, 1st Prize for Poster “Gene Expression Profiling for Gene Identification and Prognosis in Renal Cell Carcinoma”, August 2003.

**Jewett MAS:** Visiting Professor, Department of Medicine and Division of Urology, George Washington University, Washington, DC, April 2004.

**Jewett MAS:** Visiting Professor, Mexican Society of UroOncology Annual Meeting, July 2003.

**Radomski SB:** The Wightman-Berris Academy Award for Individual Teaching Excellence (University of Toronto), May 2004.



## **DIVISION OF VASCULAR SURGERY**

**Dr. K.W. Johnston - Professor**

**Dr. T.F. Lindsay - Associate Professor**

**Dr. B.B. Rubin - Associate Professor (Division Head)**

**Dr. Y. Sternbach - Assistant Professor**

## **PUBLICATIONS**

**Al-Omran M, Kucey DS, Johnston KW, Mamdani MM, Tu JV:** Outcomes of revascularization procedures for peripheral arterial occlusive disease in Ontario between 1991 and 1998: A population-based study. *Journal of Vascular Surgery*: August 2003: 38: pp 279-95.

**Bonert M, Leask RL, Butany J, Ethier CR, Myers JH, Johnston KW, Ojha M:** The relationship between wall shear stress distributions and intimal thickening in the human abdominal aorta. *BioMedical Engineering on Line*: November 2003: 2: pp 18.

**Harkin DW, Rubin BB, Romaschin A, Lindsay TF:** Complement C5a Receptor Antagonist Attenuates Multiple Organ Dysfunction following Ruptured Abdominal Aortic Aneurysm. *Journal of Vascular Surgery*: January 2004: 39(1): pp 196-206.

**Illig K, Shortell C, Zhang R, Sternbach Y, Rhodes J, Davies M, Ouriel KI, Tanski W, Johansson M, Green R, Edwards S:** Carotid endarterectomy then and now. *Surgery*: October 2003: 134(4): pp 705-11.

**Illig K, Zhang R, Tanski W, Benesch C, Sternbach Y, Green R:** Is the rationale for carotid angioplasty and stenting in patients excluded from NASCET/ACAS justified? *Annals of Vascular Surgery*: July 2003: 37(3): pp 575-81.

**Johnston KW, Kalman PG:** Aortoiliac occlusive disease. In: *Vascular surgery: Principles and practice*, 3rd Edition (Hobson RW II, Veith FJ, Wilson SE, eds). Marcel Dekker Publishing Inc., New York: 2003.

**Kalman PG, Johnston KW:** Abdominal aortic aneurysms. In: *Vascular Surgery: Principles and practice*, 3rd Edition (Hobson RW II, Veith FJ, Wilson SE, eds). Marcel Dekker Publishing Inc., New York: 2003.

**Mbachu EM, Klein LV, Rubin BB, Lindsay TF:** A monoclonal antibody against cytokine-induced neutrophil chemoattractant attenuates injury in the small intestine in a model of a ruptured abdominal aortic aneurysm. *Journal of Vascular Surgery*: May 2004: 39(5): pp 1104-11.

**Sidhu RS, Ko M, Rotstein L, Johnston KW:** Vascular surgery training in general surgery residency programs: The Canadian situation. *Journal of Vascular Surgery*: November 2003: 38: pp 1012-7.

## **INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

**Johnston KW:** Japanese Society for Vascular Surgery, Kanazawa City, Japan, July 2003. 1). Abdominal aortic aneurysm - an example of complex medical decision making. 2). Issues in the editorial management of a major surgical journal.

**Johnston KW:** American College of Surgeons, Chicago, Illinois, October 2003. Argument favouring open repair of abdominal aortic aneurysms.

**Lindsay TF:** Banff Vascular Surgery, Banff, Alberta, April 2004. Banff Vascular Course.

**Rubin BB:** Karolinska Institute, Stockholm, Sweden, March 2004. Molecular regulation of prostaglandin E2 synthase gene expression in myocardium. Visiting Professor.

**Sternbach Y:** Winnipeg Vascular and Endovascular Symposium, Winnipeg, Manitoba, April 2004. Endovascular repair of abdominal aortic aneurysms.

**Sternbach Y:** Transfemoral endovascular aneurysm management symposium (TEAMS), Victoria, British Columbia, October 2003. Endovascular repair of abdominal aortic aneurysms session.

**Sternbach Y:** Hockley Valley Endovascular Symposium, Caledon, Ontario, July 2003. EVAR: dealing with difficult anatomy.

**Sternbach Y:** Heart and Circulation Professional Development Symposium, Northern Health Network, Toronto, Ontario, November 2003. Vascular surgery in evolution: Endovascular therapy.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

Biological functions of secretory phospholipase A2 enzymes in human neutrophils. *Rubin, B: Physicians Services Incorporated Foundation* (\$160,000 2001 - 2003).

Combination Therapy for Ruptured Abdominal Aortic Aneurysm. *Lindsay TF, Gryn, Steve: Lifeline Foundation - William Von Libeg Summer Scholarship* (\$3,500 2003).

Fundamental Ultrasound Studies. *Johnston KW, Cobbold RSC: CIHR* (\$320,880 2003 - 2007).

Magnetic resonance imaging for ischemia. *Graham Wright, Barry Rubin, Naeem Merchant: Medical Research Council of Canada* (\$468,000 2000 - 2004).

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).

Molecular regulation of myocardial cyclooxygenase-2-expression and prostaglandin biosynthesis in neonatal rat cardiac myocytes. *Rubin, Barry B: Canadian Institutes of Health Research* (\$461,000 2002 - 2007).

Peri operative ischemic evaluation study. *Yang, Homer, Rubin, Barry et al: CIHR* (\$1,700,000 2001 - 2004).

Role of c-Jun N-terminal kinases in neutrophil activation and neutrophil mediated skeletal muscle ischemia reperfusion injury. *Rubin, B: Physicians Services Incorporated Foundation* (\$158,000 2003 - 2005).

Ruptured Abdominal Aortic Aneurysm: Early Organ Injury Prevention Strategies. *Lindsay, Thomas F: The Physicians Services Incorporated Foundation* (\$157,500 2002 - 2004).

Ruptured Abdominal Aortic Aneurysm: Molecular Mechanisms to Clinical Studies. *Lindsay TF: The Physicians' Services Incorporated* (\$162,000 2004 - 2006).

## HONOURS RECEIVED

**Lindsay TF:** Nasir Khan received the Richard Lewar Heart and Stroke Center of Excellence - Summer Scholarship, May 2004.

**Lindsay TF:** Received the Lifeline Summer Scholarship, May 2004.



# DIVISION OF ANATOMY

*Dr. Mike Wiley*  
*Professor and Division Head*

**Dr. A. Agur - Associate Professor**

**Dr. B. Balyk - Lecturer Dr.**

**C. Morshead - Assistant Professor**

**Dr. J. Saint-Cyr - Professor**

**Dr. P. Stewart - Professor**

**Dr. I. Taylor - Professor**

**Dr. M. Wiley - Associate Professor**

## **Publications: Papers**

**Agur AM, Ng-Thow-Hing V, Ball KA, Fiume E, McKee NH:** Documentation and three-dimensional modelling of human soleus muscle architecture. 2003 July *Clinical Anatomy* 16(4) 285-293.

**Eltahawy HA, Saint-Cyr J, Giladi N, Lang AE, Lozano AM:** Primary dystonia is more responsive than secondary dystonia to pallidal interventions: outcome after pallidotomy or pallidal deep brain stimulation. 2004 March *Journal of Neurosurgery* 54(3) 613-619.

**Kim M, Morshead CM:** Distinct populations of forebrain neural stem and progenitor cells can be isolated using side-population analysis. 2003 November *Journal of Neuroscience* 23(33) 10703-10709.

**Kleiner-Fisman G, Kleiner D, Saint-Cyr JA, Lozano A, Lang AE:** Long-term follow up of bilateral subthalamic nucleus deep brain stimulation in patients with advanced Parkinson's disease. 2003 September *Journal of Neurosurgery* 99(3): pp 489-495.

**Loh EY, Agur AM, McKee NH:** Intramuscular innervation of the human soleus muscle: a 3D model. 2003 September *Clinical Anatomy* 16(5) 378-382.

**Morshead CM, van der Kooy D:** Disguising adult neural stem cells. 2004 February *Current Opinion in Neurobiology* 14(1) 125-131.

**Morshead CM, Garcia AD, Sofroniew MV, van der Kooy D:** The ablation of glial fibrillary acidic protein-positive cells from the adult central nervous system results in the loss of forebrain neural stem cells but not retinal stem cells. 2003 July *European Journal of Neuroscience* 18(1) 76-84.

**Paradiso G, Saint-Cyr JA, Lozano AM, Lang AE, Chen R:** Involvement of the human subthalamic nucleus in movement preparation. 2003 December *Journal of Neurosurgery* 61(11) 1538-1545.

**Richter EO, Hoque T, Halliday W, Lozano AM, Saint-Cyr JA:** Determining the position and size of the subthalamic nucleus based on magnetic resonance imaging results in patients with advanced Parkinson disease. 2004 March *Journal of Neurosurgery* 100(3) 541-546.

**Robinson P, White LM, Agur A, Wunder J, Bell RS:** Obturator externus bursa: anatomic origin and MR imaging features of pathologic involvement. 2003 July *Radiology* 228(1) 230-234.

**Stefurak T, Mikulis D, Mayberg H, Lang AE, Hevenor S, Pahapill P, Saint-Cyr J, Lozano A:** Deep brain stimulation for Parkinson's disease dissociates mood and motor circuits: a functional MRI case study. 2003 December *Movement Disorders* 18(12) 1508-1516.

**Zhang R, Zhang Z, Wang L, Wang Y, Gousev A, Zhang L, Ho KL, Morshead C, Chop M:** Activated neural stem cells contribute to stroke-induced neurogenesis and neuroblast migration toward the infarct boundary in adult rats. 2004 April *Journal of Cerebral Blood Flow and Metabolism* 24(4) 441-448.

## **Publications: Books**

**Agur A and Dalley AF:** *Grant's Atlas of Anatomy* 2004 Lippincott Williams and Wilkins Baltimore 848 pages.

## **Invited Lectures**

**Morshead C -** Identifying neural stem cells and their role in stroke recovery. Department of Cellular and Molecular Biology, Ottawa Hospital Research Institute, Ottawa, Canada. December, 2003

**Morshead C -** Charles H. Tator and Barbara Turnbull Lectureship Series in Spinal Cord Injury. Adult Neural Stem Cells. Toronto, Canada. September 2003.

**Saint-Cyr JA:** Centre Hospitalier Universitaire, Ottawa, Ontario, Dec 2003. Visualization et ciblage du noyau subthalamique en IRM.

## Research and Investigations

- Approaches to self-repair: Characterizing the endogenous response of neural stem cells following brain injury. *Morshead C*: PREA, 2004-2009, \$150,000.
- Adult stem cells to treat stroke. *Miller F, Weiss S, Morshead CM, Bhatia M, Slack R*: Stem Cell Network – NCE, 2003 – 2005, \$143,600.
- An analysis of the fundamental properties of stem cells in the adult mammalian eye: A source of new cells for retinal regeneration. *Morshead CM*: E.A. Baker Foundation – CNIB, 2001 – 2003, \$31,327.
- Deep brain stimulation effects on task-driven fMRI. *Saint-Cyr JA, McAndrews M-P, Mikulis DJ*: Natural Sciences and Engineering Research Council, 2000 – 2004, \$64,000.
- Do serotonin transporter gene polymorphisms influence serotonin transporter expression in human brain? *Kish SJ, Guttman M, Houle S, Saint-Cyr JA*: CIHR, 2001 – 2004, \$332,883.
- Examining the regulation and modification of neural stem cell behaviour. *Morshead, CM*: Connaught Award - University of Toronto, 2003 – 2005, \$10,000.
- Functional anatomy of the human larynx. *Wiley MJ, Liebgott B, Stewart PA*. The Provost's Information Technology Development Fund, University of Toronto, 2002-2003 \$20,000.
- Long term imaging and cell tracking for stem cell lineage analysis. *Morshead CM, Jervis E*: Stem Cell Network – NCE, 2003 – 2005, \$212,000.
- Neurons - animated cellular and molecular concepts. *Stewart PA, Wilson-Pauwels L*. Dean's Excellence Fund/Information Technology Courseware Development Fund, 2002-2003, \$30,000.
- Neurophysiological studies in human subthalamic nucleus. *Dostrovsky J, Saint-Cyr JA, Hutchison HD, Lozano, A*: CIHR, 2000 – 2003, \$262,801.
- Neurophysiological studies in human subthalamic nucleus. *Saint-Cyr JA, Hutchison WD, Lozano AM*: CIHR, 2000 – 2003 \$262,801.
- Radiological and clinical evaluation of STNDBS. *Saint-Cyr JA*: PDF of Canada, 2001 – 2003, \$57,000.
- Serotonin transporter in Parkinson's disease. *Kish S, Guttman M, Houle S, Saint-Cyr: M.J. Fox Foundation*, 2001 – 2003, \$200,000.
- Stem cell plasticity. *Aubin J, van der Kooy D, Morshead CM, Dick J, Eaves C, Iscove N, Miller F, Nagy A, Rossant J, Ossi J, Rancourt D, Roskams J, Underhill M, Hassell N*: Stem Cell Network – NCE, 2003 – 2005, \$60,000.
- Teaching technology integration fund. *Agur A, Cusimano M*: McGraw-Hill Ryerson, 2003-2004, \$1,000.
- The identification and regulation of neural stem cells. *Morshead CM*: CIHR - Neurosciences A, 2002 – 2004, \$149,844.
- The role of EPO in regulating neural stem and progenitor cells. *Morshead C*: Janssen-Ortho Biotech., 2004, \$30,000
- The therapeutic potential of adult neural stem cells. *Morshead CM*: Connaught Grant - University of Toronto, 2003 – 2005, \$20,000.

## Honours and Awards

- Amy Yuen** (Bernie Liebgott, Supervisor) – Dentsply Award for the Best Student Presentation at the combined meetings of the Canadian Dental Association and The International Association of Dental Research. March, 2003
- Anne Agur** was named a Friend of the Fitzgerald Academy by the graduating medical students of the Fitzgerald Academy. June 2004.
- Anne Agur** received a Rising Star Award for excellence in teaching and mentoring by the Department of Physical Therapy. October 2003.
- Bernie Liebgott** was awarded the "Teacher of the Year Award" by the Class of '06 in the Faculty of Dentistry in recognition of his outstanding contributions to undergraduate dental education. June 2004
- Cindi Morshead** received a Rising Star Award for excellence in teaching and mentoring by the Department of Physical Therapy. June 2004.
- Cindi Morshead** received the Premier's Research Excellence Award, Government of Ontario, for academic and research excellence. April 2004.
- Howard McGill** (Cindi Morshead, Supervisor) - Stem Cell Network Trainee Award, January 2004.
- Ian Taylor** was awarded the E. Mary Hollington Award for teaching with distinction in the undergraduate preclinical curriculum. June, 2004
- Ian Taylor** received The Harry Whittaker Award for teaching. June, 2004
- Mike Wiley** was named a Friend of the Fitzgerald Academy by the graduating medical students of the Fitzgerald Academy. June, 2004.
- Mina Kim** (Supervisor Cindi Morshead) – McMurrich Award for Best Basic Science Poster at the annual Gallie Day poster competition, Department of Surgery. June 2004.
- Pat Stewart** received the Association of Canadian Medical Colleges John Reudy Award for Innovation in Medical Education. April 2004
- Pat Stewart** received the W.T. Aikens Faculty Teaching Award for Development and Use of Instructional Media. May, 2004.
- Tom Kertesz** (Bernie Liebgott, Supervisor) – Best Poster Award, Meeting of the Canadian and American Association of Maxillofacial Surgeons. September, 2003
- Vanessa Scanga** (Cindi Morshead, Supervisor) - James Crothers Family Fellowship. June 2004.
- Vanessa Scanga** (Cindi Morshead, Supervisor) – Ontario Neurotrauma Fellowship. June 2004.



# DIVISION OF BIOMEDICAL COMMUNICATIONS

**Dr. L. Wilson-Pauwels**  
**Professor and Division Head**

**K. Brine - Assistant Professor**  
**K. Chorney - Lecturer**  
**S. Gilbert - Professor Emeritus**  
**J. Jenkinson – Assistant Professor**  
**N. Joy - Professor Emerita**  
**L. Lax - Assistant Professor**  
**M. Mackay - Professor**  
**D. Mazierski - Associate Professor**  
**S. Nancekivell - Assistant Professor**  
**P. Reid – Lecturer**  
**Dr. S. Tulk - Assistant Professor**  
**Dr. L. Wilson-Pauwels - Professor**  
**N. Woolridge - Associate Professor**

## **Publications (Peer and Non-Peer Reviewed):**

**Jenkinson J, Woolridge N, Wilson-Pauwels L, McCready D, Brierley M.** Development and Evaluation of the Sentinel Node Biopsy Continuing Professional Development Course. *Journal of Biomedical Communications*. 2004; 29(4) - online publication.

**Polk J, Woolridge N, Wilson-Pauwels L, Jenkinson J, Mackay M.** Improving Parents' Early Recognition and Understanding of Infant Cranial Abnormalities Through Web-based 2-D Animations of 3-D Structures. *Journal of Biomedical Communications*. 2004; 29(4) - online publication.

**Kreindler D, Levitt A, Woolridge N, Lumsden CJ.** *Structure and validation of a wireless telemetry method for daily mood assessment*. *Psychiatry Research*. September 2003 (120), 165-177.

**Watt-Watson J, Hunter J, Pennefather P, Librach L, Raman-Wilms L, Schreiber M, Lax L, Stinson J, Dao T, Gordon A, Mock D, Salter M.** An Integrated Undergraduate Pain Curriculum, Based on IASP Curricula, for Six Health Science Faculties. *Pain: International Association for the Study of Pain*. Elsevier Science. (2004).

**Nancekivell S.** Writing a publishable journal article: A perspective from the other side of the desk. *Science Next Wave* 2004 April 16. Available at <http://nextwave.sciencemag.org/cgi/content/full/2004/04/14/2>.

**McLeod RS:** Surgery for Crohn's Disease pages: 681-696. In : *Inflammatory Bowel Disease. From Bench to Bedside*. Second Edition. Eds: Targan SR, Shanahan F, Karp LC. Publisher: Kluwer Academic Publishers BV, Dordrecht, Netherlands, 2003 (**Mackay MB** 11 illustrations).

**McLeod RS:** Surgery for Crohn's Disease pages 614-630 In: *Kirsner's Inflammatory Bowel Diseases*. Sixth Edition. Eds: Publication Sartor RB, Sandborn WJ Publisher: Saunders, Philadelphia, 2004 (**Mackay MB** 8 illustrations).

**Child Development Centre.** *Autism spectrum disorder: Information for parents*. Toronto, Ontario: Booklet for The Hospital for Sick Children, 2003. (**Nancekivell S**, editor).

**Division of Paediatric Emergency Medicine.** *Vomiting and diarrhea*. Toronto, Ontario: Brochure for The Hospital for Sick Children, 2003. (**Nancekivell S**, editor).

**Public Affairs.** *Information for patients: Protecting your privacy at Sick Kids*. Toronto, Ontario: Brochure for The Hospital for Sick Children, 2004. (**Nancekivell S**, editor).

### **New Media Program Development:**

**Lax, L. and Brierley, M.** Interfaculty Pain Curriculum Website, University of Toronto Centre for the Study of Pain. Updated Mar. 2004. <http://icarus.med.utoronto.ca/pain2004>.

**Mazierski D** (illustrator): Peregrine medical image acquisition and manipulation software. Cedara Software Corporation, Mississauga, 2004. Approx. 40 icons for software interface.

**Mazierski D** (illustrator and designer): mySmartSimulation minimally invasive hip replacement surgery e-learning module. Web site 2003. Interactive web training software. For mySmartSimulation, Gansevoort, NY.

Singh, A., **Lax, L.**, Librach, L., Kirshen, A., Ryan, D. and **Brierley, M.** End-of-Life Care Distance Education Program for Family Physicians. An OCPS accredited continuing professional development course, Office of Continuing Education, Faculty of Medicine, University of Toronto and Ontario Ministry of Health and Long-Term Care, 2004. <http://db.ikit.org:19005>.

### **Invited Visits:**

Agur AM, Van Furth WR, Cusimano MD, **Woolridge N.** Teaching video of the orbito-zygomatic approach. Joint Meeting of the European Association of Clinical Anatomy and the American Association of Clinical Anatomists; Graz, Austria. July 8, 2003.

Lumsden CJ, **Woolridge N**, Kreindler D. EMOCAP: Driving 3D Characters With Real Mood Dynamics. Siggraph 2003, San Diego, California. July 31, 2003.

**Mackay MB:** AEIMS, Association of European Medical and Scientific Illustrators, Leiden, Netherlands, November, 2003. JCB Grant; his museum, atlas and artists.

**Nancekivell S.** Organizing the biomedical paper. Workshop presented at the 63rd Annual Conference of the American Medical Writers Association. September 18–20, 2003. Miami, Florida.

**Nancekivell S.** Plain language. Workshop presented at the 63rd Annual Conference of the American Medical Writers Association. September 18–20, 2003. Miami, Florida.

**Nancekivell S.** How to get published in a medical journal. Workshop presented at Canadian Transplant Coordinators Advisory Forum IV. April 30 – May 2, 2004. Toronto, Ontario.

**Woolridge N.** Realistic Human Modeling using Subdivision Surfaces. Art as Applied to Medicine, John's Hopkins University. Baltimore, Maryland, April 17, 2003.

### **Honours Received:**

**Chorney K.** Excellence in Teaching Award, Biomedical Communications.

**Lax L.** Excellence in Teaching Award, Biomedical Communications

### **Research and Investigations:**

*Senior Investigator's Name Appears in Italics*

Institute for Knowledge Innovation and Technology and Hamilton Health Sciences Research Group, Interprofessional Knowledge Building in Health Care, CANARIE-OLT E-learning Program, 2003 Competition, March 2003 – March 2004. (**Lax, L.** knowledge building iterative design and evaluation, \$20K).

*Salter M (P.I.)*, Bushnell C, Choynière M, Coderre T, Collet J, Davis K, De Koninck Y, Dostrovsky J, Henry J, Katz J, Lavigne G, Mogil J, Ribeiro-Da-Silva A, Seguela P, Sessle B, Stevens B, **Wilson-Pauwels L.** CIHR Grant, "Pain Research from Molecules to Community – Collaborative National Training Program" \$336,240 for 2003-04 (\$20,000 for MScBMC scholarships). The total grant is \$2,018,040 for 6 years.

*Singh, A. and Lax, L.*, End-of-Life Care Distance Education Program research and development funding, Ontario Ministry of Health, April 2003 – March 2004 (\$10K).

*Singh, A. and Lax, L.*, End-of-Life Care Distance Education Program research and development funding, Ontario Ministry of Health, April 2004 – March 2005 (\$10K).

**Wilson-Pauwels L** (co-P.I.), *Bajcar J* (co-P.I.), **Jenkinson J**, **Woolridge N**, **Brierley M**, Sutherland B, Merck Frosst Canada Inc. – second year of funding for the "Development of Prototype Tools Phase" for PharmaPlanner (\$50,000). 2003-2005.

**Woolridge N** (co-P.I.), *Lumsden CJ* (co-P.I.). Interpretive Visualization: Understanding cell systems dynamics through computer animation. Natural Sciences and Engineering Research Council of Canada Collaborative Research and Development Grant. \$100,000 matching \$100,000 from Bell Canada University, 2004.

# RESEARCH IN EDUCATION

**Dr. A. Dubrowski - Assistant Professor**

**Dr. S.J. Hamstra - Associate Professor**

**Dr. G. Regehr – Associate Professor (Psychiatry)**

## PUBLICATIONS

**Dubrowski, Adam:** Department of Obstetrics and Gynecology's Grand Rounds, University of Vermont, Vermont,, January 2004. Surgical training out of the operating room: Research at the Surgical Skills Centre at Mount Sinai Hospital.

**Grober, ED, Hamstra, SJ, Wanzel, KR, Reznick, RK, Matsumoto, ED, Sidhu, RS, & Jarvi, KA:** Validation of novel and objective measures of microsurgical skill: Hand-motion analysis and stereoscopic visual acuity. *Microsurgery*: August 2003: 23(4): pp 317-322.

**Mihailidis A, Barbenel JC and Fernie GR:** The efficacy of an intelligent orthosis to facilitate handwashing by persons with moderate-to-severe dementia. *Neuropsychological Rehabilitation*: December 2004: 14(1/2): pp 135-171.

**Regehr C, Kjerulf M, Popova S, Baker AJ:** Trauma and Tribulation: the experiences and attitudes of operating room nurses working with organ donors. *Journal of Clinical Nursing*: May 2004: 13: pp 430-437.

**Regehr G:** Report of the AAMC:GEA Research in Medical Education (RIME) 2003 Conference. *Medical Education*: April 2004: 38: pp 791-792.

**Sidhu RS, Tompa D, Jang RW, Grober ED, Johnston KW, Reznick RK, Hamstra SJ:** Interpretation of three-dimensional structure from two-dimensional endovascular images: Implications for educators in vascular surgery. *Journal of Vascular Surgery*: June 2004: 39(6): pp 1305-1311.

**Wanzel KR, Hamstra SJ, Caminiti MF, Anastakis DJ, Grober ED, Reznick RK:** Visual-spatial ability correlates with efficiency of hand motion and successful surgical performance. *Surgery*: November 2003: 134(5): pp 750-757.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Fernie GR:** School of Biomedical Engineering, Dalhousie University, Halifax, Nova Scotia, May 2004. Assistive device development is an important and challenging activity for academic bioengineers. (Keynote) Annual Research Day.

**Fernie GR:** CIHR Institute on Aging, Regina, Saskatchewan, June 2004. From research to product. CIHR Regional Seniors' Workshop on Research.

**Fernie GR:** CIHR Institute of Aging, Toronto, Ontario, October 2003. From research to products. Enhancing aging research capacity in Canada: teams in aging workshop.

**Fernie GR:** Price Waterhouse Coopers, Toronto, Ontario, June 2004. Healthcare technologies and devices for the aging Canadian. Living Colours, a mini-symposium.

**Fernie GR:** MEDEC (Canada's medical device company association), Mississauga, Ontario, May 2004. Investing in technology to improve lives. (Invited) 31st Annual General Meeting of MEDEC. Medical devices as an economic driver.

**Fernie GR:** International Conference on Aging, Disability and Independence, Washington, District of Columbia, December 2003. Low-technology solutions to assist people of all ages with disabilities. (Invited track keynote).

**Fernie GR:** Third Annual Kunin-Lunenfeld Applied Research Unit Conference, Toronto, Ontario, October 2003. Technical innovations that improve safety and accessibility. Promoting well-being in older adults: environment, body, mind and spirit.

**Hamstra SJ:** British Academic Conference in Otolaryngology (BACO), Birmingham, United Kingdom, July 2003. Brown, D. & Hamstra, S.J. Technical Skills Instruction in Surgery: Research and Implementation.

**Hamstra SJ:** South-Western Ontario Psychomotor Behavior Meeting, Toronto, Ontario, May 2004. Psychomotor and Visuospatial Components of Technical Skills Instruction in Surgery.

**Hamstra SJ:** Plenary Speaker, Annual Medical Education Day, Department of Medical Education, University of Michigan, Ann Arbor, Michigan, May 2004. Technical Skills Training in Surgery: Implications for Simulator Use and Design.

**Regehr G:** Associated Medical Services / Council of Faculties of Medicine Annual Meeting., Toronto, ON, October 2003. Revisioning the research and evaluation imperative in continuing education.



## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

Applications of spatial vision research to problems in surgery. *Hamstra, S.J.: Natural Sciences and Engineering Research Council of Canada (NSERC) (\$15,000 2003 - 2004).*

Assistive technology for mobility. *Fernie GR: Ontario Ministry of Enterprise, Opportunity & Innovation and Ontario Rehabilitation Technology Consortium (\$153,850 2003 - 2004).*

Assistive technology for mobility. *Fernie GR: Ontario Ministry of Enterprise, Opportunity & Innovation & Ontario Rehabilitation Technology Consortium (\$26,034 2004).*

Balance. *Maki BE, Fernie GR: Medical Research Council of Canada (\$340,000 1999 - 2004).*

Behavioral Performance in Anesthesia Crisis Resource Management with Repeated Exposure to High Fidelity Patient Simulation. *Yee B, Naik VN, Joo HS, Savoldelli GL, Chung DY, Hamstra SJ: Canadian Anesthesiologists' Society Research Award, (\$30,000 2004 - 2005).*

Design and efficacy of novel interface sling systems for patients. *Dr. Geoff Fernie, Dr. Diane Marie Doran: Canadian Institutes of Health Research (\$316,327 2003 - 2006).*

Does Training on a Colonoscopy Simulator Transfer to Real Patients? *Musselman, LJ, Hamstra, S.J., Reznick, R.K., Rossos, P.G., & MacRae, H: Royal College of Physicians and Surgeons of Canada - Resident Research Competition (\$15,000 2002 - 2003).*

Effect of sleep deprivation on resident surgeon psychomotor skills. *Woodrow SI, Murray BJ, Bernstein M, Dubrowski A, Reznick RK, Hamstra SJ: Physicians' Services Incorporated Foundation (\$108,000 2004 - 2005).*

Enabling safe independent powered wheelchair mobility in long term care residents with cognitive and other impairments that currently limit powered mobility use. *Fernie GR, Cott, CA, Herrmann, N, Jutai, JW: Canadian Institutes of Health Research (CIHR) (\$348,571 2002 - 2005).*

Functional magnetic resonance imaging (fMRI) study of surgical residents on tasks of surgical skill and mental rotations. *D.J. Anastakis, Wanzel, K.R., Hamstra, S.J., Mikulis, D. & McAndrews, M.P.(CESERT - \$25,205): Association for Surgical Education - Center for Excellence in Surgical Education, Research and Training (\$25,205 2002 - 2003).*

Health Care Technology and Place - research training program. *Coyte PC and McKeever P, Fernie GR et al: Canadian Institutes of Health Research (CIHR) (\$1,980,000 2002 - 2007).*

iDAPT Innovative Rehabilitation for people in challenging environments. *Fernie GR, Numerous: Canadian Foundation for Innovation (40%) with matching funds from Ontario Innovation Trust (40%) and Toronto Rehabilitation Institute Foundation (20%) (\$18,398,061 2004 - 2007).*

Innovative approaches to optimizing balance and mobility in older adults. *Maki BE, Fernie GR, Liu B, McIlroy WE, Popovic MR, et al: Canadian Institutes of Health Research (CIHR) (\$1,085,000 2002 - 2007).*

Motor adaptations to sensory perturbations. *Dubrowski A: Natural Sciences and Engineering Research Council of Canada (\$100,000 2003 - 2006).*

Optimization of the faculty to resident ratio when teaching fundamental surgical skills. *Dubrowski A, McRae H: Dean's Excellence Fund for Medical Education (\$22,275 2003 - 2004).*

Optimizing surgical training outside of the operating room: An important analysis of surgical experience and model fidelity on skills acquisition. *Dubrowski A, Sidhu R, McRae H: The Royal College of Physicians and Surgeons of Canada (\$24,700 2003 - 2004).*

Optoelectric three-dimensional motion analysis system. *Dubrowski A: Natural Sciences and Engineering Research Council of Canada (\$75,065 2003 - 2006).*

Perception of Three-Dimensional Structure from Two-Dimensional Images in Endovascular Training. *Sidhu RS, Hamstra SJ, Jang RW, Reznick RK, Johnston KW: Physicians' Services Incorporated Foundation - Resident Research Competition (\$20,000 2002 - 2003).*

The development of an intelligent cognitive orthosis to facilitate independent toileting in Alzheimer's disease. *Fernie GR: Alzheimer Society of Canada (\$47,225 2003 - 2004).*

The effects of part-whole practice of acquisition and retention of long bone plating orthopaedic procedure. *Backstein D, Dubrowski A, Carnahan H: Physicians' Services Incorporated (\$27,400 2003 - 2004).*

The effects of progressively more challenging practice on the acquisition of laparoscopic suturing. *McRae H, Dubrowski A, Schlachta C: Physicians' Services Incorporated (\$16,700 2003 - 2004).*

The evaluation of patient simulator performance as an adjunct to the oral exam for senior anesthesia residents. *Savoldelli GL, Naik, VN, Yee B, Joo H, Houston P, Hamstra SJ: Physicians' Services Incorporated Foundation (\$25,000 2004 - 2005).*

Use of hand motion and applied drilling force characteristics in the evaluation of surgical bone drilling task. *Dubrowski A, Backstein D: Faculty of Medicine Dean's Fund (\$10,000 2003 - 2008).*

## HONOURS RECEIVED

**Fernie GR:** 2003 MEDEC Annual Award for medical achievement for "innovative leadership and inventions in the research and development of mobility technology". MEDEC is Canada's medical and assistive devices industry association and this is its highest award., September 2003.

# CROSS APPOINTMENTS

Dr. A.J. Baker - Assistant Professor (Anesthesia)  
Dr. P. Birek - Associate Professor (Dentistry)  
Dr. A. Campbell - Lecturer (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 (Anesthesia)  
Dr. D. Depetrillo - Professor (Department of Obstetrics and Gynaecology)  
Dr. F. DiCosmo - Associate Professor (Botany)  
Dr. R.J. Eby - Lecturer (Medicine)  
Dr. V.L. Fornasier - Associate Professor (Laboratory and Pathobiology)  
Dr. A. Fox - Professor (Department of Medical Imaging)  
Dr. R. Gilbert - Assistant Professor (Otolaryngology)  
Dr. M. Greenberg - Associate Professor (Pediatrics)  
Dr. M.D. Grynbas - 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 - Associate Professor (Laboratory Medicine and Pathobiology)  
Dr. W. Kucharczyk - Professor (Medical Imaging)  
Dr. M. Lee - Lecturer (Anatomy)  
Dr. G.A. Levy - Professor (Medicine)  
Dr. C. Lumsden - Professor (Medicine)  
Dr. A. McDonald - Assistant Professor (Medicine)  
Dr. J. McGlade - Associate Professor (Medical Biophysics)  
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. A.S. Slutsky - Professor (Medicine)  
Dr. B. Steinhart - Instructor (Medicine)  
Dr. D.E. Stewart - Professor (Psychiatry)  
Dr. K.G. terBrugge - Professor (Medical Imaging)  
Dr. Wan Q. - Assistant Professor (Physiology)  
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)

## PUBLICATIONS

- Acharya T, Daar AS, Singer PA:** Biotechnology and the UN's millenium development goals. *Nature Biotechnology*: December 2003: 21: pp 1434-1436.
- Acharya T, Kumar NK, Muthuswamy V, Daar AS, Singer PA:** Harnessing genomics to improve health in India: An executive course to support genomics policy. *Headache Journal*: May 2004: 19(2): pp 1.
- Agid R, Willinsky RA, Haw C, Souza MP, Vanek IJ, terBrugge KG:** Targeted compartmental embolization of cavernous sinus dural arteriovenous fistulae using transfemoral medial and lateral facial vein approaches. *Neuroradiology*: February 2004: 46(2): pp 156-160.
- Agid R, Ducreux D, Hallida W, Kucharczyk, terBrugge K, Mikulis D, Willinsky RA:** MR diffusion-weighted imaging in a case of West Nile virus encephalitis. *Neurology*: December 2003: 61(12): pp 1821-1823.
- Aihua A, Ng E, Shi W, Lee A, Chia M, Liu TJ, Huang D, O'Sullivan B, Gullane P, Liu F:** Potential efficacy of p16 gene therapy for ebv-positive nasopharyngeal carcinoma. *International Journal of Cancer*: June 2004: 110: pp 452-458.
- Arya N, Girgrah N, Levy GA:** Progress in understanding and Treatment of (HCV) Infection. In: McGraw-Hill 2003 Yearbook of Science and Technology, E. (Geller E, ed). The McGraw-Hill Companies, Inc., New York, N.Y: 2003: pp 168-171.
- Auyeung KM, Laughlin S, terBrugge K, Willinsky RA:** Prenatal Diagnosis of unusual fetal pial arteriovenous malformation. A case report. *Interventional Neuroradiology*: November 2003: 9: pp 163-168.
- Backstein D, Agnidis Z, Regehr G, Reznick R:** The effectiveness of video feedback in the acquisition of orthopedic technical skills. *American Journal of Surgery*: March 2004: 187: pp 427-432.
- Baker A:** Ischemic preconditioning in the brain. *Canadian Journal of Anaesthesia*: March 2004: 51: pp 201-205.
- Bandiera G, Regehr G:** Reliability of a structured interview scoring instrument for a Canadian postgraduate emergency medicine training program. *Academic Emergency Medicine*: January 2004: 11: pp 27-32.
- Bannister S, Regehr G, Lingard L:** Technical skill in the paediatric setting: A qualitative study of acquisition, attitudes and assumptions. *Medical Education*: December 2003: 37: pp 1082-1090.
- Beasley NJ, Gilbert RW, Gullane PJ, Brown DH, Irish JC, Neligan PC:** Scalp & forehead reconstruction using free revascularized tissue transfer. *Arch Facial Plastic Surgery*: January 2004: 6: pp 16-20.
- Beasley NJP, Gilbert RW, Gullane PJ, Brown DH, Irish JC, Neligan PC:** Scalp and forehead reconstruction using free vascularized tissue transfer. *Archives of Facial Plastic Surgery*: February 2004: 6: pp 16-20.
- Beusang E, Ang E, Lipa JE, Irish JC, Brown DH, Gullane PJ, Neligan PC:** Microvascular free tissue transfer in elderly patients: The Toronto Experience. *Head & Neck Journal*: April 2004: 25(7): pp 549-553.
- Beusang ES, McKay D, Brown DH, Irish JC, Gilbert R, Gullane PJ, Lipa JE, Neligan PC:** Deep Inferior Epigastric Artery Perforator Flaps in Head and Neck Reconstruction. *Annual Plastic Surgery*: December 2003: 51(6): pp 561-563.
- Beusang ES, Ang Ea, Lipa JE, Irish JC, Brown DH, Gullane PJ, Neligan PC:** Microvascular free tissue transfer in elderly patients: The Toronto experience. *Head & Neck*: July 2003: 25(7): pp 549-553.
- Brown DH, Hilgers FJM, Irish JC, Balm AJM:** Post-laryngectomy voice rehabilitation: State of the art at th millenium. *World Journal of Surgery*: July 2003: 27: pp 824-831.
- Carr M, Irish JC, Papsin B, Cushing S, Nichols A, Beurlein M, Kogon M:** Otolaryngology - Head & Neck Surgery. In: MCGQE Review Notes 2003 Toronto: 2003: pp 1-55.
- Cattral MS, Molinari M, Vollmer CM, McGilvray I, Wei A, Walsh M, Adcock L, Marks N, Lilly L, Girgrah N, Levy GA, Greig PD, Grant DR:** Living-Donor Right Hepatectomy with or without Inclusion of Middle Hepatic Vein: Comparison of Morbidity and Outcome in 56 patients. *American Journal of Transplantation*: May 2004: 4(5): pp 751-757.
- Chu EK, Whitehead T, Slutsky AS:** Effects of cyclic opening and closing at low- and high-volume ventilation bronchoalveolar lavage cytokines. *Critical Care Medicine*: August 2003: 32(1): pp 168-174.
- Chuang NA, Shroff MM, Willinsky RA, Drake JM, Dirks PB, Armstrong DC:** Slow-flow spinal epidural AVP with venous ectasias: two paediatric case reports. *AJNR Am J Neuroradiol*: October 2003: 24(9): pp 1901-1905.
- Clark DA, Foerster K, Fung LS, He W, Lee L, Mendicino M, Markert UR, Gorczynski RM, Marsden PA, Levy GA:** The Fg12 Prothrombinase/Fibroleukin Gene is Required for Lipopolysaccharide-Triggered Abortions and For Normal Mouse Reproduction. *Molecular Human Reproduction*: February 2004: 10(2): pp 99-108.
- Culfied T, Sheremeta L, Daar AS:** Somatic cell nuclear transfer - how science outpaces the law. *Nature Biotechnology*: September 2003: 21: pp 969-970.
- Cybulski C, Borski B, Debniak T, Matyjasik J, Gliniewicz B, Sikorski A, Narod SA, Lubinski J:** NBS1 is a prostate cancaer susceptibillity gene. *Cancer Research*: February 2004: 64(4): pp 1215-1219.
- Cybulski C, Huzarski T, Gorski B, Masojc B, Mizejewski M, Debniak T, Gliniewicz B, Matyjasik J, Zlowocka E, Kurzawki G, Sikorski A, Posmyk M, Szwiec M, Czajka R, Narod SA, Lubinski J:** A novel found CHEK2 mutation is associated with increased prostate cencer risk. *Cancer Research*: April 2004: 64(8): pp 2677-2679.
- Daar A, Dowdeswell E, Singer PA:** Genome diplomacy: Canada's crucial role. *Policy Options*: September 2003: 24(8): pp 934-935.
- Daar AS:** Xenotransplantation - Recent scientific developments and continuing ethical discourse. *Transplantation Proceedings*: November 2003: 35: pp 2821-2822.

- Daar AS, McKneally MF:** Ethical, social, and policy issues: Introduction. *World Journal of Surgery*: August 2003: 27(8): pp 928-929.
- Daar AS, Sheremeta L:** The science of stem cells: ethical, legal and social issues. *Experimental and Clinical Transplantation*: December 2003: 1(2): pp 139-146.
- dos Santos CC, Slutsky AS,:** Protective ventilation of patients with acute respiratory distress syndrome (Commentary). *Critical Care Medicine*: May 2004: 8(3): pp 145-147.
- Ducreux D, Desal H, Bittoun J, Mikulis D, terBrugge K, Lasjuanias P, Willinsky RA:** Diffusion, perfusion and activation functional MRI studies of brain arteriovenous malformations. *Neuroradiology*: January 2004: 31(1): pp 25-34.
- Ducreux D, Wu RH, Mikulis DJ, terBrugge K, Willinsky RA:** Diffusion Weighted imaging and single-voxel MR spectroscopy in a case of malignant cerebral lymphoma. *Neurology*: December 2003: 45(12): pp 865-868.
- Foulkes WD, Metcalfe K, Hanna W, Lynch HT, Ghadirian P, Tung N, Olopade O, Weber B, McLennan J, Olivotto IA, Sun P, Chappuls PO, Begin LR, Brunet JS, Narod SA:** Disruption of the expected positive correlation between breast tumor size and lymph node status in CRBA1-related breast carcinoma. *Cancer*: October 2003: 98(8): pp 1569-1577.
- Foulkes WD, Metcalfe K, Sun P, Hanna W, Lynch HT, Ghadirian P, Tung N, Olopade O, Weber BL, McLennan J, Olivotto IA, Begin LR, Narod SA:** Estrogen receptor status in BRCA1 and BRCA2-related breast cancer: the influence of age, grade and histological type. *Clinical Cancer Research*: March 2004: 10(6): pp 2029-2034.
- Fowler RA, Lapinsky SE, Hallett D, Detsky AS, Sibbald WJ, Slutsky AS, Stewart TE; Toronto SARS Critical Care Group:** Critically ill patients with severe acute respiratory syndrome. *JAMA*: July 2003: 290(3): pp 367-73.
- Fung AWL, Risch H, McLaughlin J, Rosen B, Cole C, Vesprini, Narod SA:** The N314D polymorphism of galactose-1-phosphate uridylyl transferase (GALT) does not modify the risk of ovarian cancer. *Cancer Epi Bio. Preview*: July 2003: 12(7): pp 678-680.
- Ghai S, Rajan D, Murray R, Asch M, Muradali D, Simons M, terBrugge K, Willinsky RA:** Efficacy of embolization in Traumatic Uterine Vascular Malformations. *Vascular Interv. Radiology*: November 2003: 14: pp 1401-1409.
- Ghanekar A, Mendicino M, Liu H, He W, Liu MF, Zhong R, Phillips MJ, Levy GA, Grant D:** Endothelial induction of fg12 contributes to thrombosis during acute vascular xenograft rejection. *Journal of Immunology*: May 2004: 172: pp 5693-5701.
- Goggel R, Winoto-Morbach S, Vielhaber G, Imai Y, Lindner K, Brade L, Brade H, Ehlers S, Slutsky AS, Schultze S, Gulbins E, Uhlig S:** PAF-mediated pulmonary edema: A new role for acid sphingomyelinase and ceramide. *Nature Medicine*: February 2004: 10(2): pp 155-60.
- Graham B, Regehr G, Wright JG:** Delphi as a method to establish consensus for diagnostic criteria. *Journal of Clinical Epidemiology*: December 2003: 12: pp 1150-1156.
- Grasso S, Terragni P, Mascia L, Fanelli V, Quintel M, Herrmann P, Hedenstierna G, Slutsky AS, Ranieri VM:** Airway pressure-time curve profile (stress index) detects tidal recruitment/hyperinflation in experimental acute lung injury. *Critical Care Medicine*: March 2004: 32(4): pp 1018-1027.
- Gronwald J, Gorski B, Byrski T, Huzarski T, Jakubowska A, Menkiszak J, Narod SA, Lubinski J:** Non-random transmission of mutant alleles to female offspring of BRCA1 carriers in Poland. *Journal of Medical Genetics*: September 2003: 40(9): pp 719-720.
- Groome PA, O'Sullivan B, Irish JC, Rothwell DM, Warde PR et al:** Management and outcome differences in supraglottic cancer between Ontario, Canada and the SEER areas of the United States. *Journal of Clinical Oncology*: February 2004: 21: pp 496-505.
- Gullane P, O'Sullivan B:** Organ Preservation and Functional Rehabilitation in head and neck: Introduction. *World Journal of Surgery*: July 2003: 27(7): pp 804.
- Halbert CH, Wenzel L, Lerman C, Pashkin BN, Narod SA, Marcus A, Corio C, Demarco T, Bellamy S:** Predictors of participation in psychosocial telephone counselling following genetic testing for BRCA1 and BRCA2 mutations. *Cancer Epi Biomarkers*: May 2004: 13(5): pp 875-881.
- Hall FT, Perez-Ordóñez B, Irish JC:** Laryngeal plasmacytoma. *Archives of Otolaryngology-Head and Neck Surgery*: March 2004: 130: pp 366-367.
- Hare GMT, Kavanagh MB, Mazer CD, Hum KM, Kim SY, Coackley C, Bar A, Baker AJ:** Hypercapnia increases cerebral tissue oxygen tension in anaesthetized rats. *Canadian Journal of Anaesthesia*: December 2003: 50 (10): pp 1061-1068.
- Haw C, Willinsky RA, Agid R, terBrugge K:** The endovascular management of superior cerebellar artery aneurysms. *Canadian Journal of Neurological Science*: February 2004: 31: pp 53-57.
- Humar A, McGilvray I, Phillips MJ, Levy GA:** Severe acute respiratory syndrome (SARS) and the liver. *Hepatology*: February 2004: 39(2): pp 291-294.
- Imai Y, Slutsky AS:** Systemic effects of mechanical ventilation. In: *Update in Intensive Care and Emergency Medicine 40: Mechanical Ventilation* (Slutsky AS, Brochard L, eds). Springer Verlag, Heidelberg: 2004: pp 259-271.
- Jakubowska A, Scott RJ, Menkiszak J, Narod SA, Lubinski L:** A High Frequency of BRCA2 Gene Mutations in Polish Families with Ovarian and Stomach Cancer. *Journal of Human Genetics*: December 2003: 11(12): pp 955-958.
- Jha P, Stirling B, Slutsky AS:** Weapons of mass salvation: Canada's role in improving the health of the global poor. *Canadian Medical Association Journal*: January 2004: 170(1): pp 66-67.
- Katz MR, Irish JC, Devins GM, Rodin GM, Gullane PJ:** Psychosocial adjustment in head and neck cancer: The impact of disfigurement, gender and social support. *Head and Neck Journal*: February 2004: 25: pp 103-112.

- Kennedy T, Regehr G, Rosenfield J, Roberts W, Lingard L:** Degrees of gap between knowledge and behaviour: A qualitative study of clinician action following an educational intervention. *Academic Medicine*: March 2004: 79(5): pp 386-393.
- Kumar D, Prasad R, Zaltzman GV, Levy GA, Humar A:** A Community-acquired West Nile Virus Infection in solid organ transplant recipients. *Transplantation*: February 2004: 77(3): pp 399-402.
- Kumar D, Tellier R, Draker R, Levy G, Humar A:** Severe acute respiratory syndrome (SARS) in a liver transplant recipient. Guidelines for donor SARS screening. *American Journal of Transplantation*: August 2003: 3(8): pp 977-981.
- Lai JH, Vesprini D, Zhang W, Yaffe MJ, Pollak M, Narod SA:** A polymorphic locus in the promoter region of the IGF1R gene is related to mammographic breast density. *Cancer Epidemiology and Prevention*: April 2004: 13(4): pp 573-582.
- Lasjaunias P, Berenstein A, terBrugge K, Willinsky RA:** *Surgical Neuroangiography Vol 2, 2nd Edition, Clinical and Endovascular Treatment Aspects in Adults* Springer-Verlag, Toronto: 2004:
- Lee JH, Del Sorbo L, Uhlig S, Porro GA, Whitehead T, Voglis S, Liu M, Slutsky AS, Zhang H:** Intercellular adhesion molecule-1 mediates cellular cross-talk between parenchymal and immune cells after lipopolysaccharide neutralization. *Journal of Immunology*: February 2004: 172(1): pp 608-616.
- Lee SK, terBrugge K:** Cerebral venous thrombosis in adults: the role of imaging evaluation and management. In: *Neuro Imaging Clinics of North America. Venous Disorders of the Central Nervous System* (Willinsky MD, Guest Editor, eds). W.B. Saunders Company, A Division of Elsevier Science, Philadelphia, USA: 2003: pp 139-52.
- Lee SK, Willinsky RA, Montanera W, terBrugge K:** Imaging of dural arteriovenous fistulas draining into cerebellar cortical veins. *AJNR Am J Neuroradiol*: September 2003: 24(8): pp 1602-1606.
- Levy GA, Berger L, Dennis JW:** STAT1 and STAT3 alpha/beta splice from activation predicts host responses in mouse hepatitis virus type 2 infection. *Journal of Medical Virology*: December 2003: 69: pp 306-312.
- Levy GA, Cole EH:** Neoral C2 Monitoring in Maintenance Liver Transplant Patients: A Step Forward? *Liver Transplantation*: February 2004: 10(2): pp 190-192.
- Li JH, Shi W, Chia M, Sanchez-Sweetman O, Medin J, Huang D, Busson P, Klamut H, Yeh WC, Richardson C, Pinitilie M, O'Sullivan B, Gullane P, Neligan P, Liu F:** Efficacy of targeted fasL in Nasopharyngeal carcinoma. *Molecular Therapy*: December 2003: 8(6): pp 964-973.
- Liede A, Karlan BY, Narod SA:** Cancer risks for male carriers of germline mutations in BRCA1 or BRCA2: A review of the literature. *Journal of Clinical Oncology*: February 2004: 22(4): pp 735-742.
- Liede A, Zhang W, De Leon L, Matsuda M, Tan A, Narod SA:** Androgen receptor gene polymorphism and breast cancer susceptibility in the Philippines. *Cancer Epidemiology and Prevention*: September 2003: 12(9): pp 848-852.
- Loutfy MR, Blatt LM, Siminovitch KA, Ward S, Wolff B, Levy GA et al:** Therapeutic potential of interferon alfacon-1 plus corticosteroids in severe acute respiratory syndrome: a pilot study. *JAMA*: December 2003: 290(24): pp 3222-3228.
- Lubinski J, Phelan CM, Gadirian P, Lynch HT, Garber J, Weber B, Tung N, Horsman D, Isaacs C, Monteiro ANA, Sun P, Narod SA:** Cancer variation associated with the position of the mutation in the BRCA2 gene. *Familial Cancer*: March 2004: 3(1): pp 1-10.
- MacRae H, Regehr G, Brennenman F, McKenzie M, McLeod R:** Assessment of critical appraisal skills. *American Journal of Surgery*: April 2004: 187: pp 120-123.
- Makdessian A, Ellis DA, Irish JC:** Informed consent in facial plastic surgery: Effective of a simple education intervention. *Archives of Facial Plastic Surgery*: March 2004: 6: pp 26-30.
- Makitie A, Gullane PJ, Irish J:** Pharyngocutaneous Fistula. *Current Opinion. Journal of Otolaryngology & Head & Neck Surgery*: November 2003: 11: pp 78-84.
- Makitie AA, Beasley NJ, Neligan PC, Lipa JE, Gullane PJ, Gilbert RW:** Head and neck reconstruction with anterolateral thigh flap. *Journal of Otolaryngology - Head and Neck Surgery*: November 2003: 129(5): pp 547-555.
- Marra LE, Zhang ZX, Joe B, Campbell J, Levy GA, Penninger J, Zhang L:** IL-10 induces regulatory T cell apoptosis by up-regulation of membrane form of TNF- $\alpha$ . *Journal of Immunology*: January 2004: 172(2): pp 1028-35.
- Marsden P, Fung L.S., Mendicino M, Ghanekar A, Miller T, Chan C, Chan M, He W, Gorczynski RM, Grand D, Clark DA, Phillips MJ, Levy GA:** The Fg12/fibrinolytic prothrombinase contributes to immunologically-mediated thrombosis in experimental and viral hepatitis. *Journal of Clinical Investigation*: July 2003: 112: pp 58-66.
- McCready D, Aronson K, Chu W, Fan W, Vesprini D, Narod SA:** Breast tissue organochlorine levels and metabolic genotypes in relation to breast cancer risk. *Cancer Causes and Control*: May 2004: 15(4): pp 399-418.
- McKneally MR, Daar AS:** Introducing new technologies: Protecting subjects of surgical innovation and research. *World Journal of Surgery*: August 2003: 27(8): pp 930-934.
- Menkiszak J, Gronwald J, Gorski B, Bryski T, Huzarski T, Jakubowska A, Foszcznska-Kloda M, Rzepka-Gorska I, Narod SA, Lubinski J:** Clinical and pathologic features of familial ovarian cancers lacking mutations in BRCA1 or BRCA2. *European Journal of Gynaecological Oncology*: March 2004: 25: pp 99-100.
- Menkiszak J, Rzepka-Gorska I, Gorski B, Gronwald J, Huzarski T, Bryski T, Jakubowska A, Metcalfe KA, Narod SA, Lubinski J:** Attitudes toward preventive oophorectomy among BRCA1 carriers in Poland. *European Journal of Gynaecological Oncology*: February 2004: 25: pp 93-95.

- Metcalfe K, Lynch HT, Ghadirian P, Tung N, Olivott I, Warner E, Olopade O, Elsen A, Weber B, McLennan J, Sun P, Foulkes WD, Narod SA:** Contralateral breast cancer in BRCA1 and BRCA2 mutation carriers. *Journal of Clinical Oncology*: June 2004; 22(12): pp 2328-2335.
- Metcalfe KE, Esplan MJ, Gaol V, Narod SA:** Metcalfe KE, Esplan MJ, Goel V, Narod SA. *Psycho-Oncology*: January 2004; 13(1): pp 14-26.
- Mohsin N, Mahuby H, Maimani Y, Aghanishankar P, Al-Hassani M, Daar AS:** Development of morbid obesity after transplantation in laurence moon biedle syndrome. *Transplantation Proceedings*: November 2003; 35: pp 2619.
- Mohsin N, Mahuby H, Maimani Y, Aghanishankar P, Al-Hassani M, Daar AS:** Living kidney donation for the mentally impaired: A case report. *Transplantation Proceedings*: November 2003; 35: pp 2571-2572.
- Narod SA:** The Prevention of Hereditary Breast and Ovarian Cancer: A Personal View. *Hereditary Cancer CL Practice*: June 2004; 2: pp 5-9.
- Neligan P, Gullane P, Gilbert R:** Functional reconstruction of the oral cavity. In: *World Journal of Surgery* (Ronald K Tompkins, ed): 2003; 27(7): pp 856-862.
- Newman S, Yoo J, Jones N, Beasley N, Gullane P:** Radiation induced leiomyosarcoma of the ethmoid sinus: Expert's corner. *Skull Base*: August 2003; 13(3): pp 179-183.
- Nie J, Li SS, McGlade J:** Related Articles, Links Abstract A Novel PTB-DHZ domain interaction mediates isoform-specific ubiquitylation of mammalian Numb. *Journal of Biological Chemistry*. May 2004; 279(20): pp 20807-15.
- O'Sullivan B, Audet N, Catton C, Gullane P:** Soft tissue and bone sarcomas of the head and neck. In: *Head and Neck Cancer: A multidisciplinary approach 2<sup>nd</sup> edition* (Harrison, Sessions, Hong Ki, eds). Lippincott, William & Wilkins: 2003.
- O'Sullivan B, Gullane P, Irish J, Neligan P, Gentili F, et al:** Preoperative radiotherapy for adult head and neck soft tissue sarcoma: Assessment of wound complication rates and cancer outcome in a prospective series. *World Journal of Surgery*: July 2003; 27(7): pp 875-883.
- O'Sullivan B, Gullane PJ, Irish JC:** Preoperative radiotherapy for adult head and neck soft tissue sarcomas: Assessment of wound complication rates and cancer outcome in a prospective series. *World of Surgery*: July 2003; 27: pp 875-883.
- Palme C, Gullane P, Gilbert R:** Current treatment options in squamous cell carcinoma of the oral cavity. In: *Surgical Oncology Clinics of North America* (Dr. Wesley Hicks, ed). WB Saunders Company, 2003: pp 47-70.
- Palme C, Gullane P, Irish J:** Solitary neck mass. (Section on skin & soft tissue). In: 8th edition of *Current Surgical Therapy* (J Cameron, ed). Elsevier/Mosby, 2003: pp 1061-1066.
- Palme C, Gullane PJ, Irish JC:** Management of the colitary neck mass. In: *Current Surgical Therapy*, 8th edition. (Cameron J, ed). Elsevier Mosby Publishers, Philadelphia: 2004: pp 1-54.
- Parsons JA, Johnston MR, Slutsky AS:** Predicting length of stay out of hospital following lung resection using preoperative health status measures. *Quality Life Research*: September 2003; 12(6): pp 645-54.
- Patel S, Singh B, Polluri A, Bridger P, Cantu G, Cheesman A, DeSa G, Donald P, Fliss D, Gullane P et al:** Craniofacial surgery for malignant skull base tumors: Report of an international collaborative study. *Cancer*: August 2003; 98(6): pp 1179-1187.
- Propst EJ, Barrett JFR, Irish JC:** Toxoplasma Neck Mas in a Pregnant Woman: diagnosis and management. *Journal of Otolaryngology*: January 2004; 33: pp 55-57.
- Rebbeck TR, Friebel T, Lynch HT, Neuhausen SL, Van't Veer L, Garber JE, Evans GR, Narod Sa, Isaacs C, Matloff E, Daly MB, Olopade OI, Weber BL:** Bilateral prophylactic mastectomy in carriers of BRCA1 and BRCA2. *Journal of Clinical Oncology*: March 2004; 22(6): pp 1055-1062.
- Sarma D, Farb RI, Mikulis DJ, terBrugge K, Willinsky RA:** Reversl of restricted diffusion in cerebral venous thrombosis: case report. *Neuroradiology*: February 2004; 46: pp 118-121.
- Sarma D, Iyengar P, Marotta T, terBrugge K, Gentili F, Halliday W, Willinsky RA:** Cerebellar endometriosis. *AJR AM J Roentgenol*: June 2004; 182(6): pp 1543-1546.
- Segal J, Esplan MJ, Toner B, Baedorf S, Narod SA, Butler K:** An investigation of the disclosure process and support needs of BRCA1 and BRCA2 carriers. *American Journal of Medical Genetics*: March 2004; 125a(3): pp 267-272.
- Singer PA, Benatar SR, Bernstein M, Daar AS, Dickens BM, MacRae S, Upshur REG, Wright L, Zlotnick Shaul R:** Ethics and SARS: Learning lessons from the Toronto experience. *British Medical Journal*: December 2003; 327: pp 1342-1344.
- Slutsky AS, Imai Y:** Ventilator-induced lung injury, cytokines, PEEP, and mortality: Implications for practice and for clinical trials. *Intensive Care Medicine*: August 2003; 29(8): pp 1218-21.
- Slutsky AS, Lavery JV:** Data safety and monitoring boards. *New England Journal of Medicine*: March 2004; 350(11): pp 1143-1147.
- Smith RD, Thorsteindottir H, Daar AS, Gold ER, Singer PA:** Geonomics knowledge and equity: A global public goods perspective of the patent system. *Bulletin of the World Health Organization*: May 2004; 82(5): pp 385-389.
- Thiffault I, Hamel N, Pai T, Marcus VA, Farber D, Cowie S, Deschenes GT, Odefrey F, Goldgar A, Narod SA, Watters AK, MacNamara E, Du Sart D, Chong G, Foulkes WD:** Germline truncating mutations in both MSH2 and BRCA2 in a single kindred. *British Journal of Cancer*: February 2004; 90: pp 483-491.
- Thompson MD, van Gravesande KS, Galezenski H, Siminovitch KA, Zamel N, Slutsky A, Drazen JM, George SR, Burham WM, Evans JF, O'Dowd BF:** A cysteinyl leukotriene 2 receptor variant is associated with atopy in the opulation of Tristan da Cunha. *Pharmacogenetics*: July 2003; 13(10): pp 641-649.

**Varmus H, Klausner R, Zerhouni E, Acharya T, Daar AS, Singer PA:** Public health: Grand challenges in global health. *Science*: October 2003: 302: pp 398-399.

**Warner G, Reid P, Makitie A, Sukhai M, Arora S, Jurisica I, Wells R, Gullane P, Irish J, Kamel-Reid S:** Current applications of microarrays in head and neck cancer research. *Laryngoscope*: February 2004: 114: pp 241-248.

**Warner GC, Makitie AA, Reiss PP, Sukhai M, Jurisica I, Wells RA, Gullane P, Irish J, Kamel-Reid S:** The Current Application of Microarrays in Head and Neck Cancer Research. *Laryngoscope Journal*: February 2004: 114: pp 241-248.

**Warner GC, Reiss PP, Jurisica I, Sultan M, MacMillan C, Beasley N, Makitie AA, Arora S, Sukhai M, Grenman R, Wells RA, Brown D, Gilbert R, Freeman J, Gullane P, Irish J, Kamel-Reid S,:** Molecular classification of oral cancer by cDNA microarrays identifies overexpressed genes correlated with nodal metastasis. *International Journal of Cancer*: March 2004: 110: pp 857-868.

#### INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Baker AJ:** Pittsburgh Neurotrama Residents Forum, Pittsburgh, PA, February 2004. (A) Brain injury identification, classification and pathology. (B) ICU/medical management of spinal cord injured patients.

**Baker AJ:** 24th International Symposium on Intensive Care and Emergency Medicine., Brussels, Belgium, April 2004. (A) Resuscitation of white matter. (B) Use of hypertonic solutions in brain edema. (C) Plenary lecture: Development of an organ donations system.

**Baker AJ:** 13th World Congress of Anaesthesiologists., Paris, France, April 2004. Clinical monitoring of head trauma.

**Baker AJ:** Beth Israel Deaconess Medical Center, Harvard Medical School., Boston, MA, December 2003. Neurocritical care and neuroanaesthesia update: severe head injury.

**Carson J:** Humber College, Toronto, Ontario, May 2004. Concussion - dealing with protocols not panic.

**Carson J:** Ontario Medical Association SportMed conference, Toronto, Ontario, January 2004. Women collision sport safety controversies.

**Daar A:** Ditchley Foundation, England, February 2004. Biogenetics: The impact of advances on politics and society.

**Daar A:** Rockefeller Foundation, Barcelona, March 2004. Diaspora Development.

**Daar A:** Transplantation Institute, Warsaw Medical School, Warsaw, Poland, July 2003. Ethical, societal, legal and economic aspects of transplantation.

**Daar A:** World Health Organization, Madrid, Spain, October 2003. Ethics, access and safety in tissue and organ transplantation: Issues of global concern.

**Daar A:** Global Health Forum, Zurich, April 2004. Genomics and global health.

**Daar A:** Government of Canada Discussion, Ottawa, November 2003. Nanotechnology: Policy implications arising from health, environmental and other issues.

**Daar A:** Human Genome Organization, Berlin, April 2004. Pharmacogenomics and global health.

**Daar A:** King Faisal University, Saudi Arabia, February 2004. Technology and choice in the 21st century.

**Daar A:** Government of Canada. Biotechnology Conference, Ottawa, January 2004. Top 10 biotechnologies and millennium development goals.

**Gullane PJ:** Department of Otolaryngology, University of Colorado, Denver, Colorado, October 2003. (1) Advanced skull base neoplasms: Analysis & management (2) Surgical decision making in hypopharyngeal cancer.

**Gullane PJ:** AAO-HNS Meeting, Orlando, Florida, September 2003. (1) Lip reconstruction (2) Adult laryngotracheal stenosis course.

**Gullane PJ:** Canadian Society of Otolaryngology - Head and Neck Surgery, Qubec, May 2004. (1) Osteosarcoma of the mandible and maxilla: The U of T Experience (2) Quality of life analysis in patients after anterior skull base surgery (3) Patient co-morbidity as a predictor of outcome in free tissue transfer to the head & neck (4) Quality of life with maxillofacial prosthetic reconstruction for palate defects.

**Gullane PJ:** American College of Surgeons Meeting 10th Clinical Congress (Lebanon Chapter), Beirut, Lebanon, September 2003. (1) Skull base neoplasms: Analysis & management (2) Surgical salvage following organ preservation strategies in the head and neck (3) Laryngotracheal stenosis: Analysis & management. (4) Panel Member: Future of head and neck surgery.

**Gullane PJ:** Annual Meeting of the North American Skulls Base Society, New Orleans, February 2004. (1) Surgical approaches to the clivus (2) Moderator of panel - Construction in skull base surgery.

**Gullane PJ:** XX1 Annual Polish Surgical Oncology Society, Zakapone, Poland, May 2004. (1) The role of pedicled and free tissue transfer in head and neck reconstruction (2) Cancer of the lip: Management and reconstruction (3) Surgical salvage following radiation or chemo-radiation treatment.

**Gullane PJ:** COSM Annual Meeting, Phoenix, Arizona, April 2004. (1) Moderator of Panel Laryngotracheal reconstruction: A therapeutic dilemma. (2) Synchronous laryngotracheal stenosis: Management.

**Gullane PJ:** Colorado ENT Society, Denver, Colorado, October 2003. Reconstruction of the oral cavity.

**Gullane PJ:** Centre of Oncology Maria Sklodowska-Curie Memorial Institute Branch, Gliwice, Poland, May 2004. Role of pedicled and free tissue transfer in head and neck reconstruction.

**Gullane PJ:** Annual Cartesian Society Meeting, London, United Kingdom, July 2003. SARS The Toronto Experience.

**Irish J:** McGill Update in Otolaryngology, Montreal, March 2004. Life threatening infections of the head and neck.

**Irish J:** North American Skull Base Society Annual Meeting, New Orleans, Louisiana, February 2004. Moderator - Quality of life in skull base patients.

**Kucharczyk W:** International Society of Magnetic Resonance in Medicine (ISMRM), Kyoto, Japan, May 2004. 12th Annual Meeting of "Spin Gymnastics".

**Kucharczyk W:** Shanghai, China, May 2004. iMRI for Guidance of Neurological Procedures. The Shanghai Workshop.

**Kucharczyk W:** Davos, Switzerland, April 2004. International Diagnostic Course. The Pituitary Gland and Central Skull Base.

**Kucharczyk W:** Bangkok, Thailand, November 2003. STAR International Teaching Program: (a) CNS Infections. (B)The Pituitary Gland. (C) MRI Physics. (D) Expert Film Panel.

**Levy GA:** University of Colorado, Denver, CO, December 2003. C2 in Liver Transplantation.

**Levy GA:** 2003 Canadian Transplant Fellows Symposium, Toronto, ON, October 2003. Viral Hepatitis in Solid Organ Transplantation.

**Levy GA:** Tongji University, Wuhan, China, April 2004. Visiting Professor.

**McGlade J:** Department of Pharmacology, University of North Carolina at Chapel Hill. Chapel Hill, NC. Regulation and Function of the Cell Fate Determinant Numb. November 2003.

**McGlade J:** The 5<sup>th</sup> Meeting on Signaling in Normal and Cancer Cells. Banff, Alberta. Function and Regulation of the Cell Fate Determinant Numb. March 2004.

**McGlade J:** Grand Rounds, Department of Oncology, London Regional Cancer Centre, University of Western Ontario, London, ON. Function and Regulation of the Cell Fate Determinant Numb. May 2004.

**Narod S:** Department of Oncology, Ohio State University, Columbus, OH, June 2004. Bilateral Breast Cancer in BRCA Carriers: Clues to Prevention.

**Narod S:** CHS Educational Conference on Cancer Prevention, Dead Sea, Israel, May 2004. Clinical Management of Breast Cancer and Ovarian Cancer Families.

**Narod S:** Lynne Cohen Foundation Symposium, New York, N.Y., April 2004. Demographics of BRCA1 and BRCA2.

**Narod S:** National Ovarian Cancer Association, Ottawa, ON, May 2004. Prevention of Ovarian Cancer Among Women with BRCA1 and BRCA2 Mutations.

**Narod S:** CHS National Cancer Control Centre: Cancer Prevention Workshop, Haifa, Israel, May 2004. Preventive Interventions in Carriers of BRCA1 and BRCA2 Mutations.

**Pritzker KPH:** National Institutes of Health, Washington, DC, June 2004. (1) Arthritis, musculoskeletal and skin diseases, (2) Spontaneous osteoarthritis in monkeys and man.

**Pritzker KPH:** Aventis Pharma, Frankfurt Main, Germany, May 2004. Osteoarthritis: Experimental models and human disease.

**Slutsky AS:** Canarian-Canadian Conference on Severe Acute Respiratory Distress Syndrome (SARS), Las Palmas de Gran Canaria, Santa Cruz de Tenerife, Canary Islands, Spain, February 2004. (1) Co-Director of Course (2) ICU management of patients with SARS.

**Slutsky AS:** 10th International Conference on Mechanical Ventilation and 2nd World Conference on Acute Lung Injury, Maspalomas, Gran Canaria, Spain, February 2004. (1) Co-Director of Course (2) Lung injury and recruitment: The opening and collapse story.

**Slutsky AS:** IPOKRATES Seminar in Critical Care, Zhengzhou, China, April 2004. (1) Approach to hypoxemia, (2) Ventilator-induced lung injury, (3) Ventilator management of ARDS, (4) Non-conventional methods of ventilation, (5) SARS, the Toronto experience.

**Slutsky AS:** 3rd Annual Summer Conference in Intensive Care Medicine - Mechanical Ventilation: Current trends and future directions, New York City, NY, June 2004. (1) Chair, (2) Ventilator-induced lung injury: Implications for clinical practice.

**Slutsky AS:** Toronto Critical Care Medicine Symposium 2003, Toronto, Ontario, October 2003. (1) Member of the Conference Executive Organizing Committee, (2) presentation: VILI and MODS.

**Slutsky AS:** American Thoracic Society 100th International Conference, Orlando, Florida, May 2004. (1) Postgraduate course speaker, (2) Preventing VILI with PEEP (Presenter and Chair).

**Slutsky AS:** IPOKRATES Adult Critical Care Seminar, University of Stellenbosch, Bellville, South Africa, January 2004. (1) Scientific Organizer for Meeting, (2) An approach to hypoxemia, (3) Ventilator-induced lung injury (VILI): Relevance to ARDS, (4) Review of recent clinical trials of lung protection in ARDS, (5) Non-conventional methods of ventilation.

**Slutsky AS:** 24th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 2004. (1) The influence of neuroimmune mechanisms - VILI, (2) Albumin may protect the lungs - IV fluids, (3) Constant flow ventilation - mechanical ventilation, (4) Impedance tomography and stress index - Monitoring techniques in ARF, (5) VILI - Plenary Lecture, (6) Moderator: Gas exchange and lung mechanics, (7) The rationale-HFV.

**Slutsky AS:** 16th Annual Congress European Society of Intensive Care Medicine, Amsterdam, The Netherlands, October 2003. Data Safety Monitoring Boards: Ethical Consideration.

**Slutsky AS:** Shock Society, Halifax, Nova Scotia, June 2004. Mechanical ventilation and MODS: A success story.

**Slutsky AS:** The John Butler Memorial Lecture, University of Washington, Seattle, Washington, October 2003. Mechanical ventilation: From Biotrauma to barotrauma to bedside.

**Slutsky AS:** Henan Provincial People's Hospital, Zhengzhou, China, April 2004. Mechanical ventilation and MODS.

**Slutsky AS:** Tuscany Critical Care Society, Florence, Italy, October 2003. Severe Acute Respiratory Syndrome.



**Willinsky R:** AANS/CNS CV Section & the ASITN Joint Annual Meeting., San Diego, CA., February 2004. (1) Intracranial dural arteriovenous shunts: etiology and angioarchitecture & natural history. (2) Intracranial dural arteriovenous shunts and venous congestive encephalopathy: clinical and radiological findings. (3) Spinal dural arteriovenous fistular angioarchitecture and the role of gadolinium enhanced MRA.

**Willinsky R:** 6th Meeting Asian-Australasian Federation of Interventional and Therapeutic Neuroradiology, Bangkok, Thailand, March 2004. (A) Management of occlusive Vascular diseases. "Should we dilate all the narrowing?" (B) Current Management of brain AVM. "What do we discuss about partial treatment?" (C) DAV shunt: Classification and Management.

**Willinsky R:** Zurich, Switzerland, March 2004. 12th Zurich Course on Interventional Neuroradiology.

**Willinsky R:** Annual Interventional Neuroradiology Symposium, Toronto, ON, September 2003. 5th Annual Interventional Neuroradiology Symposium.

**Willinsky R:** ABC/WIN 2004, Val d'Isere, France, January 2004. Classification of DAVMs.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

An evaluation of the potential for organ and tissue donation at four Canadian tertiary health care centres. *Baker A, Beed S, Boiteau P, Fenwick J, Shepherd J: Clarica Life Insurance Company (\$50,000 2002 - 2004).*

An evidence-based health services evaluation of informational and management continuity in heart patients. *Stewart DE, Grace SL, Abramson B, Brooks D, Jaglal S, Scholey P, Suskin N, Arthur H, Evindar E: Canadian Health Services Research Foundation (\$196,994 2003 - 2006).*

Applied ethics and biotechnology. *Singer PA, Daar AS: Ontario Research and Development Challenge Fund (\$5,800,000 2001 - 2008).*

Biotrauma: Mechanisms of lung injury and distal organ dysfunction. *Slutsky AS: Canadian Institutes of Health Research (\$650,769 2004 - 2009).*

Biotrauma: physiological mechanisms, biological consequences. *Slutsky AS: Medical Research Council of Canada (\$579,651 1999 - 2004).*

Bridging the genomics divide. *Singer PA, Daar AS: Genome Canada (\$2,830,006 2002 - 2004).*

Canadian program in genomics and global health. *Singer PA, Daar AS: Genome Canada (\$7,200,000 2001 - 2005).*

Canadian Women's Health Surveillance Report: A multidimensional look at the health of Canadian women. *Semeules M, Stewart DE, Payne J, Vissandjee B, Kazanjion A, Maclean H, Mao Y: Canadian Population Health Initiative (\$125,000 2001 - 2003).*

Cellular and molecular mechanisms of organ injury. *Levy GA, Cybulsky M, Downey G, Marsden P, Rotstein O, Zhang L: Canadian Institutes of Health Research (\$587,578 2000 - 2004).*

Community outreach and heart health risk reduction trials (COHRT): (1) Component study 2: Cultural and sociogeographic moderators of risk factor reduction (2) Component study 3: Gender-based mediators of risk factor reduction. *Nolan RP, Ruckholm E, Stewart DE, Angus J, Rouleau JL, Franche RL, Rosser W, Alter D, Picard L, Michel I, Crichton T, Haider L, Micevski V, Grace SL: Toronto Rehabilitation Research Institute (\$21,450 2002 - 2006).*

Community outreach and heart health risk reduction trials (COHRT): Component study 1: Efficacy of group outreach methodology. *Nolan RP, Ruckholm E, Stewart DE, Angus J, Rouleau JL, Franche RL, Rosser W, Alter D, Picard L, Michel I, Crichton T, Haider L, Micevski V, Grace SL: Heart and Stroke Foundation of Ontario (\$1,164,283 2002 - 2006).*

Compelling values: privacy access to data & Health research competition. *Upshur R., Daar A, et al: Canadian Institutes for Health Research (\$38,807 2004 - 2005).*

Critical Care Unit for Research Excellence (CCURE) [Group grant including approximately 20 critical care physicians/specialists from southern Ontario]. *Slutsky AS, St. Michael's Hospital: Canada Foundation for Innovation (CFI) (40%) and Ontario Innovative Trust (60%) (\$4,588,720 2002 - 2006).*

Development of migration and reproductive health studies. *Gagnon AJ, Oxman-Martinez J, Janssen PA, Stewart DE, Wahoush O, et al: Canadian Institutes for Health Research (\$100,000 2003 - 2004).*

Effect of vanadium treatment on bone loss and bone quality in rat models of osteoporosis and diabetes. *Grynepas M: Canadian Institutes of Health Research CIHR (\$125,426 2002 - 2005).*

Effects of aryl hydrocarbon receptor ligands on osteoporosis and reproductive function. *Casper R, Grynepas MD, Savouret JF: Medical Research Council of Canada (\$200,000 1998 - 2003).*

Establishment of an advanced biomaterials and regeneration surgery research unit. *Davies JE: ORDCF Match, 3I Implant Innovations Inc (\$728,830 1999 - 2004).*

Ethical challenges in the preparedness and response for SARS: An interdisciplinary research study. *Daar A, Upshur R., Singer P, Wilson K et al: Canadian Institutes for Health Research (\$202,850 2004 - 2006).*

Failure to fail: The perspectives of clinical supervisors. *Dudek N, Marks M, Regehr G: Royal College of Physicians and Surgeons of Canada. (\$11,500 2003 - 2004).*

Fitting voice prostheses in laryngectomy patients: Does the type of reconstruction determine the length & time to downside. *Zaitlin-Gencher S., Durkin L, Brown D, Gilbert R, Gullane P, Irish J: Allied Health Research - PMH (\$459,000 2004).*

- Formation of functional tissue engineered spinal disk unit. *Hunter G, Kandel R, Grynepas M, Pilliar: Arthritis Society of Canada* (\$75,000 2002 - 2005).
- Fullerene based photodynamic therapy. *Wilson B, Pritzker K, Chiang L: C 60, Inc.* (\$420,000 2001 - 2004).
- Fullerene based photodynamic therapy. *Pritzker KPH, Chiang L, Wilson B: C 60 Inc.* (\$675,000 2000 - 2004).
- Functional imaging research network. *Kucharczyk W, Stuss D, Henkelman M, Vaccarino F: Canadian Foundation for Innovation/Ontario Institute for Technology* (\$6,200,000 2000 - 2005).
- Genomics and global health: Developing a global CIHR network to address ethical, policy and regulatory issues. *Daar A, Gold R, Knoppers BM, Singer P: Canadian Institutes for Health Research* (\$62,700 2003 - 2004).
- Immunopathogenesis of viral hepatitis. *Levy GA, Clark DA: Canadian Institutes of Health Research* (\$186,419 2000 - 2005).
- Importance of harikiri in regulation of oocyte and embryo survival. *Juriscova A, Grynepas M: Canadian Institutes of Health Research CHIR* (\$90,326 2002 - 2006).
- Improving the population impact of telephone-based counselling for the treatment of smoking. *McDonald P., Cameron R, Brown KS, McCarville R, Sen A, Irvine J, Reid R: Heart and Stroke Foundation of Ontario* (\$6,048,090 2001 - 2005).
- Interventions to promote the prevention of cardiovascular disease: Physical activity for the secondary prevention of cardiovascular disease. *Reid R., Irvine J, McDonald P, Dafoe W, Morrin L, Pipe A, Cheung T, Cameron R, Brown S, Sharratt M, Wells G: Heart and Stroke Foundation of Ontario* (\$6,389,605 2001 - 2006).
- Ischemic preconditioning of the myocardium: Role of cell volume regulation. *Wilson GJ, Backx, PH.: Heart and Stroke Foundation of Ontario* (\$460,000 2003 - 2006).
- LNX family ubiquitin ligases in cellular signaling and polarity. *McGlade J. Canadian Institutes of Health Research.* (\$785,000 – 2004 – 2009).
- Low intensity laser irradiation during healing of infected skin lesions: Influence of bacterial species, laser wavelength, radiant exposure and intensity modulation frequency. *Nussbaum EL, Pritzker K, Lilge L, Mazzulli T, Nikain T: CIHA Institute of Musculoskeletal Health and Arthritis* (\$119,572 2004).
- Maintenance and support for the advance bioimaging centre. *Grynepas M, Adamson SL, Quaggin S, Wrana J, Bazett-Jones D, Klip A, Keeley F, Yip C, Goh M: Canadian Institutes of Health Research CHIR* (\$100,000 2003 - 2006).
- Maintenance of a core robotics facility. *Wrana, J, Pritzker K, Attisano L, Dennie J, Jongstra J, Schimmer AD: CIHR* (\$271,491 2004 - 2007).
- Mechanisms of degradation of calcium polyphosphates. *Grynepas M: National Science Engineering and Research Council of Canada* (\$30,800 2002 - 2007).
- Mechanisms of neuroprotection by albumin following traumatic brain injury. *Mazer D, Baker AJ, Tian GF, Hare G: Bayer Health Care Division* (\$189,614 2002 - 2004).
- MHSc in international bioethics. *Singer PA, Daar AS: Fogarty International Centre, US National Institutes of Health* (\$1,800,000 2000 - 2004).
- Microsatellite instability in young patients with head and neck squamous cell carcinoma. *Kamel-Reid S., Gullane P, Irish J, MacMillan C: Canadian Institutes of Health (CIHR)* (\$308,772 2002 - 2005).
- Modeling agricultural biotechnology intellectual. *Gold R., Daar A, Castle D, de Langevant G, Adams W, et al: Social Sciences and Humanities Research Council* (\$2,989,500 2003 - 2007).
- Modulation of GABA-A receptor by melatonin in suprachiasmatic nucleus. *Wan Q: Canadian Institutes of Health Research (CIHR)* (\$225,000 2000 - 2003).
- Molecular mechanism of AMPA receptor-mediated excitotoxicity. *Wan Q: Heart & Stroke Foundation of Canada (HSF)* (\$140,000 2000 - 2005).
- Needs of refugee mothers after pregnancy (NORMAP-ERS) Phase 1. *Gagnon AJ, Oxman-Martinez J, Stewart DE: Canadian Institutes for Health Research* (\$235,229 2002 - 2003).
- New emerging team: aging. *Grynepas M, Kandel R, Grynepas M, Pilliar: Canadian Institutes of Health Research (CHIR)* (\$239,000 2002 - 2007).
- Ontario rehabilitation technology consortium. *Milner M, Cleghorn W, Fernie GR, Jamieson D, Naumann S, Shein F, Strong G, Zaiee S: Ministry of Enterprise, Opportunity and Innovation* (\$1,500,000 2003 - 2004).
- Optimizing clinical and public health management of influenza-like-illnesses of undetermined etiology in a world changed by SARS. *Khan K, Gardam M, Slutsky AS, Jha P: Canadian Institutes of Health Research* (\$55,640 2004 - 2005).
- POGO operating grant for Centre of Comprehensive Research in Childhood Cancer. *Greenberg C, Barr R, Greenberg M: Ministry of Health* (\$600,000 1997 - 2003).
- Popular health promotion strategies among Chinese and East Indian immigrant women. *Stewart DE, Ahmad F: Social Sciences and Humanities Research Council* (\$57,750 2001 - 2003).
- Population based estimates of cost and quality of life in prostate cancer survivors. *Krahn M, Holowaty E, Naglie G, Irvine J, Ritvo P: Canadian Institutes of Health Research (CIHR)* (\$520,474 2002 - 2007).
- Pregnancy and childbearing in refugees: Transitional health (PACBIRTH) phase 1. *Gagnon AJ, Oxman-Martinez J, Stewart DE: Canadian Institutes for Health Research* (\$289,265 2002 - 2003).
- Prevention of delayed cardiac xenograft rejection by modulation of the potent fg12 prothrombinase gene. *Levy GA: Heart and Stroke Foundation of Canada* (\$215,157 2003 - 2005).

Prospective Study of Familial Breast Cancer Risk in BRCA-negative Women. *Narod SA: Canadian Breast Cancer fundation* (\$197,100 2004 - 2007).

Psychological factors and platelet activation: Predictors and mechanisms of re-stenosis. *Reid G., Irvine J, Kop WJ, Lau HK, Nolan RP, Schwartz L, Seidelin P, Strauss P, Yeo EL: Canadian Institutes of Health Research (CIHR)* (\$250,230 2001 - 2003).

Psychosocial determinants of attrition in diabetes education service use. *Stewart DE, Gucciardi E: Canadian Diabetes Association* (\$19,983 2003 - 2005).

Psychosocial determinants of attrition in diabetes education service use and its impact on diabetes management outcomes. *Stewart DE, Gucciardi E: Canadian Diabetes Association* (\$87,539 2003 - 2005).

Psychosocial Functioning in Women Treated with Mastectomy With or Without Breast Reconstruction. *Metcalfe K, Narod SA: Canadian Breast Cancer Foundation* (\$183,168 2004 - 2007).

Reconciling growth with ethics: Models of intellectual property protection for biotechnological innovation. *Gold ER, Daar AS: Canadian Institutes for Health Research* (\$281,802 2002 - 2005).

Reducing environmental tobacco smoke exposure in private places: A qualitative study of postpartum women, partners, and tobacco control advocates. *Stewart DE, Bercovitz K, Poland BD, Cohen JE, Selby PL, Ferrence RG: Canadian Tobacco Research Initiative (SSHRC)* (\$145,869 2001 - 2004).

Research in Immune Tolerance in Transplantation. *Levy GA: Canadian Foundation for Innovation* (\$10,000,000 2004 - 2007).

Role of adaptor proteins in hematopoietic cell signaling. *McGlade J: Canadian Institutes of Health Research* . (\$801,590 2003 – 2008).

Role of phosphatase PTEN in traumatic spinal cord injury. *Wan Q: Christopher Reeve Paralysis Foundation (CRPF)* (\$197,492 2002 - 2004).

Role of TCPTP in FLT3 Induced Acute Myelogenous Leukemia. *McGlade J: Leukemia Research Fund of Canada*. (\$55,000 2004 – 2005).

The Contribution of BRCA2 to ovarian cancer. *Narod SA: National Cancer Institute of Canada - CIHR* (\$904,000 2004 - 2007).

The Development of a Decision Aid for Breast Cancer in BRCA1 and BRCA2 Mutation Carriers. *Metcalfe K, Narod SA: Canadian Institutes of Health Research* (\$147,866 2004 - 2006).

The relationship between socio-economic status, quality of care, and outcomes following acute myocardial infarction. *Alter DA., Morgan CD, Naylor C, Irvine J, Tu J, Williams J, Mustard C, Wheaton B, Autin PC: Canadian Institutes of Health Research (CIHR)* (\$373,803 2001 - 2004).

The Role of anemia and red blood cell substitutes in traumatic brain injury. *Mazer D, Baker AJ, Tian FG, Hare G: Anemia Institute for Research & Education* (\$60,000 2003 - 2004).

The role of stem cell antigen (Sca-1) in bone development and homeostasis. *Stanford WI, Aubin J, Gryn timer M: Canadian Institutes of Health Research (CHIR)* (\$123,987 2002 - 2006).

The social science of novel bio technology integration theme of CANVAC. *Irvine J: Medical Research Council of Canada/Canadian Network for Vaccines and Immunotherapeutics of Cancer and Chronic Viral Diseases* (\$482,000 2000 - 2004).

Three dimensional polymer matrices for bone tissue engineering. *Davies JE, Shoichet MS: BoneTec Corporation* (\$112,774 1998 - 2004).

Tissue engineered for cartilage repair. *Gryn timer M, Pillar RM, Gryn timer M, Kandel R: National Science Engineering Research Council* (\$189,000 2002 - 2005).

Towards a comprehensive speech rehabilitation for glossectomy patients: tongue sharpe, tongue motility and speech intilibility following partial glossectomy surgery. *Bressmann T, Irish J, Gilbert R, Gullane P, Brown D, Neligan P: Canadian Institutes of Health Research* (\$330,000 2003 - 2006).

When home care ends and institutional care begins: A longitudinal study of stroke survivors and their family caregivers. *Cheung AM, Cameron JI, Stewart DE, Coyte PC, Streiner DL, Feldberg GD: Social Sciences and Humanities Research Council* (\$121,820 2001 - 2004).

## HONOURS RECEIVED

**Kucharczyk W:** First Canadian to be elected President of the International Society for Magnetic Resonance in Medicine. With 4,000 members, it is the largest scientific group in the world dealing MR science and techniques., January 2004.

**Narod S:** UBC Medical Alumni Association - Class of 1979 Silver Anniversary Award, May 2004.

**Stewart DE:** Awarded “University Professor” for her pioneering and groundbreaking work in women’s health research, which has a major impact., July 2003.

# *E M E R G E N C Y M E D I C I N E*

**Dr. P.A. Arnold - Assistant Professor (University Health Network)**

**Dr. J.C. Fallis - Assistant Professor (The Hospital for Sick Children)**

**Dr. L. Fulton - Lecturer (Sunnybrook and Women's College Health Sciences Centre)**

**Dr. B.A. McLellan - Associate Professor (Sunnybrook and Women's College Health Sciences Centre)**

**Dr. S. Reicheld - Instructor (University Health Network)**

**Dr. D. Saslove - Instructor (St. Michael's Hospital)**

**Dr. D. Williams - Assistant Professor (Sunnybrook and Women's College Health Science Centre)**

## **INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

**McLellan BA:** Defence Canada Development and Research Centre, Toronto, Ontario, March 2004. The coroner's role in air crash investigations.