

July 1, 2001 – June 30, 2002

**R.S. McLaughlin Professor and Chair –**

Dr. J. H. Wedge 1992 - 2002

Dr. R. K. Reznick 2002 -

**Professor and Associate Chair –**

Dr. B. R. Taylor

**Surgeons-in-Chief**

Dr. J. Wedge – The Hospital for Sick Children

Dr. Z. Cohen – Mount Sinai Hospital

Dr. L. Smith – St. Joseph's Health Centre

Dr. E. Poulin – St. Michael's Hospital

Dr. R. Richards – Sunnybrook & Women's College Health Sciences Centre

Dr. L. Tate – Toronto East General Hospital

Dr. B. R. Taylor – James Wallace McCutcheon Professor and Chair – University Health Network

**University Division Chairs**

Dr. M. Wiley – Anatomy

Dr. L. Wilson-Pauwels – Biomedical Communications

Dr. R. Weisel – Cardiac Surgery

Dr. Z. Cohen – General Surgery

Dr. J. Rutka – Leslie Dann Professor and Chair of Neurosurgery

Dr. J. Waddell – J. Latner Professor and Chair of Orthopaedic Surgery

Dr. P. Neligan – Wharton Chair in Reconstructive Plastic Surgery

Dr. R. Ginsberg – Thoracic Surgery

Dr. S. Herschorn – Urology

Dr. K. W. Johnston – R. Fraser Elliot Chair in Vascular Surgery

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## Report from the Chair

### ***Dr. Richard Reznick - R.S. McLaughlin Professor and Chair***



It is with enthusiasm and enormous pride that I write this introduction to the 2001-2002 Annual Report, of the Department of Surgery, at the University of Toronto. The years ahead will no doubt pose many challenges but I am confident that we are facing these challenges from a strong platform of previous success. What an amazing department we have. Over the last decade, my predecessor John Wedge, has orchestrated tremendous growth in our research programs and populated our educational efforts with innovation and strength. We have a large faculty with national and international leaders in virtually every aspect of surgery and the co-participation in our academic enterprise of our fully affiliated and partially affiliated teaching hospitals.

We can be unequivocally proud of our accomplishments in research. Our annual research funding is about \$21 million. This makes us leaders in Canada and competitive with our peer group of publicly funded research-intensive, American Universities. What distinguishes us from many if not all other institutions in North America is our Surgeon Scientist Program. Under Ori Rotstein's terrific leadership, this program now has 34 residents engaged in research activities across a spectrum of endeavours, including fundamental biology, medical education and clinical epidemiology. This program is truly a jewel in our crown and speaks volumes about our past and magnificently about our future. With transformative changes in research funding across Canada having occurred in the last few years, there is now an unparalleled opportunity to capture more research dollars. I believe it is realistic to aspire to doubling our current research funding within a five-year time frame. To accomplish this goal we will need to augment the focus of research activities where there is critical mass and where major impact is a possibility. Landmark discoveries will be our driver. Training, collegial support, funding, programmatic emphasis, and research space will be our fuel.

We must take tremendous pride in our educational achievements. We participate in the education of 200 medical students each year, train approximately 250 residents and fellows each year and are fully invested in a multitude of continuing education programs. We have one of the largest and most mature skills unit in North America and our surgical education research group serves as a model for other universities. There are many educational challenges that lay ahead. We will need to work harder to attract the best and the brightest to surgery. We have to focus on transforming our model of residency education, as there are many existing threats to the continued delivery of a high-quality educational product. We need a fresh look at each and every task our residents do, and we need to put forward approaches to education that radically change the learning curves for technical and non-technical aspects of surgical training.

Toronto is the largest metropolitan area in North America, with just one medical school. This gives us enormous strength in that we have a large number of teaching hospitals which for all intents and purposes, are not competitive. This provides a fertile substrate for city-wide planning and collaboration. I believe we have to go further to develop focused arenas of excellence, as I believe surgery in the next 20 to 30 years, will no longer be what we know it as today. The notion of focused factories with high volumes linked to superb clinical results, will force us to ramp up rationalization of clinical and indeed academic activity, at our major campuses. Unquestionably, we must work toward city-wide co-ordinated electronic databases, to provide a platform for clinical trials for the future. We need to work quickly towards the goal of every case in a database.

As I write this introduction for our current annual report, I have been "on the job" for six weeks. I am just now beginning to understand the depth and breadth of this department and the amazing potential we have for the future. However successful we may have been in the past, it will be our job now to think boldly and look into the future with new initiatives and the desire to be better. This will involve some risk-taking, and an attempt at increasing the financial security of our future. I am dedicated to working hard to make these goals a reality and sharing with all of the members of our department, the intrinsic rewards that come from being part of a great organization.

## Departmental and External Awards and Honours

Dr. Wayne Johnston, 2002 E. Bruce Tovee Postgraduate Teaching Award; Dr. Sender Herschorn, 2002 E. Bruce Tovee Undergraduate Award; Dr. Peter Chu, University of Toronto Surgical Skills Centre Distinguished Teaching Award; Dr. James Wright, 2002 Lister Prize; Dr. Yasser Botros, 2002 D.R. Wilson Award; Dr. Robert Gryfe, 2002 Bernard Langer, Surgeon-Scientist Award; Dr. Michael Tymianski, 2002 George Armstrong-Peters Prize; Dr. Richard Weisel, Charles Tator Surgeon Scientist Mentoring Award; Dr. Clare Baker, Officer of the Order of Canada; Dr. Bernard Langer, Officer of the Order of Canada; Dr. Leo Mahoney, Officer of the Order of Canada; Dr. Carin Wittnich, Order of Ontario; Dr. Ori Rotstein, Chair, Connaught Life Sciences Molecular, Cellular and Integrative Biology Review Panel; Dr. Steven Gallinger, Israel Cancer Research Fund (ICRF) Scientific Award; Dr. Robin McLeod, President, 2002-2003, Canadian Association of General Surgeons (CAGS); Dr. Robin McLeod, President-Elect, 2001-2002, Canadian Association of General Surgeons (CAGS); Dr. Ren-Ke Li, Society of Biomaterials Clemens Award for Applied Research; Dr. Richard Reznick, Governor of the American College of Surgeons (ACS); Dr. Charles Tator, 2001 Jonas Salk Prize from the Ontario March of Dimes; Dr. Darius Bagli, 2001 Basic Science Research Prize of the section on Urology of the American Academy of Pediatrics; Dr. James Wright, 2002 Kappa Delta Award, American Academy of Orthopaedic Surgeons (AAOS); Dr. Alan Hudson, President and CEO, Cancer Care Ontario; Dr. Benjamin Alman, 2002 Medalist for Surgery, Royal College of Physicians and Surgeons of Canada Award; Dr. Richard Reznick, 2002 Gallie Lecturer, Royal College of Physicians and Surgeons; Dr. Dave Williams (Adjunct Professor) First Canadian Astronaut to be awarded the NASA Outstanding Leadership Medal; Dr. Bernard Goldman, Editor-in-Chief of the Journal of Cardiac Surgery; Dr. Tony Khoury, Chairman of the Canadian Urological Association Scholarship Foundation; Dr. Mark Catral, Member of the Editorial Board of the Journal of Surgical Research; Dr. Ab Guha, Member of the Editorial Board of the Journal of Neuro-Oncology; Dr. Ab Guha, appointed to the Cancer Review Panels of the National Cancer Institute of Canada and the CIHR; Dr. Ren-Ke Li, Career Investigator Award from the Heart and Stroke Foundation of Ontario; Dr. James Rutka, appointed to the Executive Council of the Society of Neurological Surgeons; Dr. Andres Lozano, Chair, Stereotactic and Functional Neurosurgery Committee for the World Federation of Neurological Surgeons; Dr. James Rutka, Chair, Neuro-Oncology Committee for the World Federation of Neurological Surgeons; Dr. Ab Guha, Member of the Board of Directors (Basic Science) for SNO; Dr. John Semple, President of the Canadian Society of Plastic Surgeons; Dr. Earl Bogoch, Fitzgerald Academy 2001 Teaching Award for Clerkship Teaching; Dr. David Latter, Fitzgerald Academy 2001, Teaching Award for PBL Tutoring; Dr. Thomas Lindsay, Wightman-Berris Academy Teaching Award 2000/2001; Dr. Lloyd Smith, Wightman-Berris Academy Teaching Award 2000/2001; Dr. Michael Fehlings, Director, Neural & Sensory Science Program; Dr. Michael Fehlings, Krembil Chair in Neural Repair and Regeneration at the University Health Network; Dr. David Backstein, Dean's Excellence Fund in Medical Education Award; Dr. Patricia Stewart, Dean's Excellence Fund in Medical Education Award, Dr. Linda Wilson-Pauwels, Dean's Excellence Fund in Medical Education Award; Dr. Ab Guha, Alan and Susan Hudson Chair in Neuro-Oncology; Dr. Charles Tator, Robert Compeau Family Chair in Brain and Spinal Cord Research, University Health Network; Dr. Howard Clarke, 2002 PAIRO Excellence Award in Clinical Teaching; Dr. Dimitri Anastakis, Arnis Freiberg Teaching Excellence Award and the W.K. Lindsay Research Supervisor Award; Dr. Rod Davey, R.B. Salter Award for Excellence in Teaching; Dr. Charles Peniston, 2001 University of Toronto Cardiac Surgery Teaching Award; Dr. Ian Taylor, Dr. E. Hollington Award in preclerkship teaching for the pre-clinical or basic science portion of the curriculum; Dr. Vivek Rao, Connaught New Staff Matching Grant Program 2001; Dr. Cari Whyne, Connaught New Staff Matching Grant Program 2001; Dr. Subodh Verma, 2002 Canadian Research Award for Specialty Residents.

**Promotions**

Congratulations to the following members of the Department of Surgery whose academic contributions to the Department and to the University were recognized by promotions July 1, 2002. Dr. Michael Ford, Dr. Raja Rampersaud, Dr. Christopher Schlachta were promoted to Assistant Professor. Dr. Darius Bagli, Dr. Lee Errett, Dr. Joel Fish, Dr. Neil Fleshner, Dr. John Honey, Dr. William Hutchison, Dr. Andras Kapus, Dr. Michael Tymianski, and Dr. Armand Zini were promoted to Associate Professor. Dr. Christopher Feindel, Dr. Shaf Keshavjee, Dr. Ren-Ke Li, Dr. Gordon McLorie, Dr. Anthony Miniaci, Dr. Peter Neligan, and Dr. Lorne Rotstein were promoted to Full Professor.

**New Faculty Appointments**

Dr. Barbara Ballyk, Anatomy, Dr. Eamon Beausang, Plastic Surgery, Mount Sinai Hospital, Dr. Peter Bray, Plastic Surgery, University Health Network, Dr. Melanio Catre, Orthopaedic Surgery, Toronto East General Hospital, Dr. Amr Elmaraghy, Orthopaedic Surgery, St. Joseph's Health Centre, Dr. Walid Farhat, Urology, The Hospital for Sick Children, Dr. Johnny Lau, Orthopaedic Surgery, University Health Network, Dr. Eric Massicotte, Neurosurgery, University Health Network, Dr. Andrea McCart, General Surgery, Mount Sinai Hospital, Dr. Robert Nam, Urology, Sunnybrook & Women's College Health Sciences Centre, Dr. Unni Narayanan, Orthopaedic Surgery, The Hospital for Sick Children, Dr. Andrew Pierre, Thoracic Surgery, University Health Network, Dr. Yaron Sternback, Vascular Surgery, University Health Network, Dr. George Vincent, Orthopaedic Surgery, St. Joseph's Health Centre.

**Reviews, Searches and Appointments**

Dr. Richard Reznick was appointed R.S. McLaughlin Professor and Chair of the Department of Surgery, Faculty of Medicine, University of Toronto. Dr. Earl Bogoch was appointed Medical Director of the Mobility Program at St. Michael's Hospital. Dr. Lloyd Smith was appointed Surgeon-in-Chief at St. Joseph's Health Centre. Dr. James Waddell was re-appointed Chair of the Division of Orthopaedic Surgery in the Department of Surgery. Dr. Peter Neligan was re-appointed Chair of the Division of Plastic Surgery in the Department of Surgery.

## The Surgeon Scientist Program

### **Dr. Ori Rotstien - Director**



The major objective of the Surgeon Scientist Program (SSP) is to prepare surgical trainees for future careers in academic institutions as Clinician-Scientists. The SSP provides a mechanism whereby individuals engaged in clinical training in surgery can obtain a graduate level research experience within the context of their overall training period. To accomplish this, SSP participants are relieved of clinical responsibilities, while being simultaneously enrolled in a graduate level degree programs at the Masters or PhD level. Research supervision is provided by individuals from across the University of Toronto Health Science Complex, thus ensuring interdisciplinary interactions as well as a breadth of opportunity for trainees. The quality of the program is evidenced by the large number of scientific presentations made nationally and internationally by SSP members, their publication of work in the highest quality peer reviewed journals and their frequent recognition through awards for their work. Approximately 50% of individuals who have completed their program are now faculty at academic institutions throughout the world including more than 30 at the University of Toronto. These individuals are engaged in research across the range of scientific inquiry from fundamental biology to health services research and work across the breadth of clinical disciplines.

The SSP has become a model program for training of future Clinician-Scientists across all disciplines in medicine. It has been emulated locally by other Departments in the Faculty of Medicine, and has gained national prominence as the template for the development of the Clinician-Investigator Program in the Royal College of Physicians and Surgeons of Canada. The program has also engaged in strategic partnerships with industry as well as other academic centres as a means of supporting and promoting the program.

*Dr. Bernard Langer, a recipient of the Order of Canada, established this program in 1984. Included in his citation was a commendation for his founding of the SSP. This program has successfully integrated research in training into a clinical residency program and has sown the seeds for outstanding scientific advances in surgery by the next generation of Surgeon Scientists.*

## Undergraduate Education

### **Dr. William Tucker - Director**



The academic year 2001-02, was the final year of Dr. John Wedge's tenure as Chair of the Department of Surgery. All of us involved in the organization and administration of the undergraduate surgery program owe Dr. Wedge our sincere appreciation for his genuine interest, wise counsel and unflagging support.

The Phase I Surgical Clerkship Curriculum Website (<http://surgclerk.med.utoronto.ca>), envisioned and implemented by Drs. Ted Ross and Stan Hamstra, was introduced for the first time this year, and was well received by the students. This application of Information Technology should improve the quality, consistency and timely revision of the standard material presented to our third year students, as the basis for their formal seminar program, presented at the individual Academy sites.

In the coming academic year, Drs. Ross and Hamstra hope to add the Phase II seminars to the site. A special thanks is due to the many faculty who prepared the content for the website, and to Carmela Calorendi in the Office of Surgical Education, who pursued the faculty until their presentations were submitted.

Dr. Charles Peniston became the coordinator for the surgical component of the Year IV OSCE examination. Dr. David Backstein was appointed the Department of Surgery's representative to the PBL Case Development Committee of the Faculty. Dr. Ron Kodama rejoined the UEC as the representative of the Peters-Boyd Academy.

Dr. Jameel Ali's TEAM (Trauma Evaluation and Management) program was introduced to the Phase II clerkship central seminar teaching, and was extremely well-received. It was decided to make this program a regular and mandatory part of the surgical curriculum.

Each of the Academies has made provision for the hands-on teaching of surgical skills to its Phase I clerks. This is the first year that this type of instruction has been organized at the Academy level to ensure that all students are given this type of training.

Dr. John Murnaghan organized and chaired the proceedings at a Resident as Teacher Day on July 25, 2001. These sessions recognize and promote the important role that our residents play in the education of our undergraduate students, particularly the clinical clerks. Dr. Murnaghan's sustained enthusiasm for resident and faculty development has contributed substantially to our Department for a number of years now.

Again this year, the University of Toronto's Department of Surgery was well represented at the Association for Surgical Education meeting, held in Baltimore April 4-6, 2002. Drs Ross and Hamstra conducted a workshop concerning the development of the Clerkship Curriculum Website, and their presentation was well-received. Dr. Dimitri Anastakis and co-authors won the "Outstanding Paper Award" accolade at the ASE meeting for their work on the Evaluation of the Two-Year Surgical Skills Course for Core Residents at the University of Toronto. Dr. John Murnaghan will be the Vice-President at the annual ASE meeting for 2002-03 and President in 2003-04.

This year's E. Bruce Tovee award for excellence in Undergraduate Surgical Education went to Dr. Sender Herschorn, University Chair of the Division of Urology. Despite an increasing administrative load over the years, Dr. Herschorn has maintained a keen interest in undergraduate teaching, and his contributions have been consistently highly evaluated.

This year's D.R. Wilson Award for the best Resident Teacher of Undergraduate Students went to Dr. Yasser Botros, a PGY5 resident in General Surgery. Dr. Botros has received stellar evaluations for his teaching of undergraduates and has sustained this exemplary effort over time.

Dr. Colin Bayliss stepped down from the Undergraduate Education Committee at the end of this academic year, as he retired from the University of Toronto. Dr. Bayliss was first appointed to the Committee by Dr. D. R. Wilson in 1975, and has been a productive contributor ever since. Dr. Bayliss has been instrumental in bringing Surgery to the attention of undergraduate students in the early preclerkship years, and has initiated the recruitment of many fine students to surgical careers. Our best wishes and thanks go to Dr. Colin Bayliss, the students' friend.

I hope that the entire Department joins me in thanking the student and faculty members of the Undergraduate Education Committee, for their contributions to the success of our undergraduate teaching mandate, over the past year.



## Postgraduate Education

### **Dr. John Bohnen - Director**



University of Toronto's Department of Surgery residents and faculty members continued to thrive in the 2001-2002 year.

Twenty-four of the 25 of our first-year entry positions were filled in July 2001 through the Canadian resident match. In 2001-2002 we had 215 trainees in our 11 programs (Cardiac Surgery, General Surgery, Neurosurgery, Orthopaedic Surgery, Plastic Surgery, Thoracic Surgery, Urology and Vascular Surgery residencies; and Colorectal Surgery, Pediatric General Surgery and Surgical Oncology fellowship programs). Thirty-six residents received research training with the Surgeon Scientist Program, led by Dr. Ori Rotstein.

Our residents did well in the Royal College of Physicians and Surgeons of Canada (RCPSC) exams. All but one of our residents who sat the Principles of Surgery (POS) examination passed, as did 38 of 39 candidates who attempted their fellowship examinations for specialty certification (98%). Congratulations to our trainees on their great results!

All of the Program Directors have done an outstanding job running their divisional programs. Many thanks to: Dr. Gail Darling (Thoracic Surgery); Dr. Dough Hedden (Orthopaedic Surgery); Dr. K. Wayne Johnston (Vascular Surgery); Dr. Ron Kodama (Urology); Dr. Jack Langer (Pediatric General Surgery); Dr. Ron Levine (Plastic Surgery); Dr. Charles Peniston (Cardiac Surgery); Dr. Lorne Rotstein (General Surgery); Dr. Marcus Burnstein (Colorectal Surgery); Dr. Carol Swallow (General Surgical Oncology); and Dr. Chris Wallace (Neurosurgery) for continuing to make my job easy.

The divisional Program Directors, chair their respective residency program committees, which include elected resident representatives. Each division sponsors numerous educational events, including a half-day per week, away from clinical duties. Overall direction at the Department level comes from the Postgraduate Education Committee. The Core Surgery Committee oversees the Core Surgery Program, which trains first and second-year residents in all aspects of surgical theory and practice. Dr. Stan Hamstra, Director of the Office of Surgical Education, co-ordinates the trainees' evaluations of teaching programs and faculty members. Each surgeon receives a "teaching effectiveness score" based on the residents' feedback.

The Department of Surgery sponsors a number of educational offerings that complement the residents' clinical exposure. Dr. Martin McKneally is stepping down as Co-ordinator of the Principles of Surgery (POS) lecture series for Core Surgery residents, which provides the scientific knowledge they need for clinical practice and success in the POS exam. He has done an exceptional job coordinating this popular series and will turn the job over to Dr. Bob Mustard next season. Dr. Jameel Ali has run the POS practice exam once again this year. The residents themselves are continuing to help build a bank of questions. In special "resident forum" sessions twice annually, the Core Surgery residents provide feedback to Dr. Hamstra and me about issues such as work conditions. On July 9, 2001, the Core Surgery residents attended a half-day program "The Surgeon in Society" on topics of professional interest, such as information management and surgical error. The many other events include orientation day for incoming PGY1s in July; a carer night for senior year medical students interested in Surgery; a senior residents' day led by Dr. Martin McKneally; a resident as teacher workshop conducted by Dr. John Murnaghan; and a session in Advanced Trauma Life Support training led by Dr. Jameel Ali.

The Surgical Skills Centre (SSC), under the leadership of Dr. Helen MacRae, trains Core Surgical residents in basic operating room skills and theory in a controlled setting, under the supervision of mater teachers of surgical technique. Besides teaching Core residents basic skills, the SSC is used to provide advanced skills training for surgical divisions and the Departments of Otolaryngology and Obstetrics/Gynecology.

In the past year, numerous faculty members and residents were granted awards by hospitals, surgical divisions and the Department of Surgery for excellence in postgraduate teaching. Among them, Dr. Wayne Johnston won the 2002 Tovee Postgraduate Award for sustained, outstanding contributions to postgraduate training. Dr. Yasser Botros won the D. R. Wilson Education Prize for outstanding teaching of medical students by a surgical resident.

A major reason for the success of our postgraduate education programs has been the strong leadership and support provided by Chairman Wedge. In his last year as chair, as in all other years, Dr. Wedge demonstrated his commitment to postgraduate surgical education in many ways, including administrative actions, supportive editorials, sage advice, and his own performance as an outstanding teacher and educator.

Once again, we have all benefited from the outstanding administrative support from Tess Weber, Miriam Rotman and Jean DeFazio. We look forward to another great year in 2002-2003!

## Research

### **Dr. Ori Rotstien - Director**



Research continues to be one of the great strengths of the Department. The most glowing evidence of this was provided by the research successes of the residents in the Surgeon Scientist Program (SSP) this year. Eighteen new residents entered the SSP, giving the Program 21 MScs, five Meds, two MAScs and 12 Phd surgical residents involved in full-time research. These trainees are consistently recognized locally, nationally and internationally, for their research through publications in peer reviewed journals, presentations at innumerable meetings and their competitiveness for grants and awards. Over 85% of our SSPs were successful in receiving full or partial salary support from external granting agencies. Some noteworthy achievements were: the Canadian Institutes of Health Research (CIHR) Postdoctoral Fellowships granted to Steven Casha, Gordon Chu, Paul Fedak, Anand Ghanekar, Howard Ginsberg, Rebecca Gladly, Bradley Jacobs, Erin Kennedy, Nicolas Phan, Kinga Powers, Michael Taylor and Eve Tsai. Not to be forgotten, are the Physicians' Services Incorporated Foundation Resident Research Awards, which were presented to Steven Casha, Ethan Grober, Nellesh Jain, Rachael Khadaroo, Laura Musselman, Kinga Powers, Danny Ramzy, Michael Taylor, Mylene Ward and Dennis Wigle. Out of 18 University of Toronto Postgraduate Awards, 11 were awarded to the SSPs. The total salary supported external fellowship received by the SSPs in 2001, was \$841,622, a tremendous feat on its own. The Bernard Langer Surgeon Scientist Award recipient, given to the most outstanding graduate of the Surgeon Scientist Program, was presented to Dr. Robert Gryfe. Finally, the Johnson & Johnson Medical Products Surgeon Scientist Fellowship program's third year of commitment, allowed us to support four of the SSPs. These were Tracey Asano, Syed Mohammed Quadri, Kyle Wanzel, and Mylene Ward.

The Gallie Day event took on a new format this year. In order to highlight the breadth of research in the Department, a poster session on the evening before Gallie Day attracted approximately 50 submissions, highlighting work from both clinician-scientists and research scientist in the Department, as well as from the Department of Anatomy. J.K. Kus working with Dr. Lori Burrows was the winner of the McMurrich Award, given for basic science research, while C.M. Ribic, working with Dr. Steven Gallinger, was the first-place Wyeth-Ayerst awardee, and C.L. Kwan, working with Dr. Karen Davis was the second-place awardee. The Gallie-Bateman Competition consisted of presentations from 12 of our residents in the SSP. First prize was awarded to Dr. Michael Taylor, with Drs Kyle Wanzel and Dennis Wigle tied as runners-up. The afternoon proceedings highlighted our Gordon Murray Lecturer, Professor Ara Darzi, Professor of Surgery and Head of the Department of Surgical Oncology and Technology, Division of Surgery Anaesthesia and Intensive Care, Imperial College of Science Technology and Medicine, London, United Kingdom. His lecture which focused on the impact of technology on surgical practice, was superb. This lecture served as a springboard for a Symposium addressing the issues related to Technological Advances in Surgery. Drs. John Bohnen, Eric Poulin and Peter Singer, were joined by The Honourable Bob Rae and Ms. Marnie Weber in this Panel Discussion.

The George Armstrong-Peters Prize for best young investigator in the Department, was awarded to Dr. Michael Tymianski for his research investigating the cellular mechanisms of neuroal injury following stroke, while the Lister Prize for the best Senior Investigator was awarded to Dr. James Wright, citing his worldwide reputation in the field of epidemiology and population health research. This year, the inaugural Charles H. Tator Surgeon Scientist Mentoring Award, intended to honour outstanding achievements in SSP supervision, was given to Dr. Richard Weisel of the Division of Cardiac Surgery

The Research Committee continued to provide organizational leadership for the research activities of the Department. One focus of this year's Research Committee, was to organize a Workshop on Surgical Mentoring. Drs. John Marshall and Carol Swallow hosted the Workshop with staff and residents participating throughout the day. Dr. Charles Tator, Mrs. Dayle Allen and Dr. Mel Silverman stressed the importance of the right mentor for the new faculty, as well as the residents in the SSP. A set of guidelines will be developed to formalize a mentoring program within the Department.

The Research Office under the direction of Ms. Val Cabral, served a critical role in communicating research issues across the Department, coordinating all programs in the Department, including the SSP, and finally nurturing the research database containing a collation of information regarding grant-funding and awards in the Department. All applaud Ms. Cabral for her excellent efforts in this role.

In summary, this has been a banner year for research, in the Department of Surgery. We must 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. Richard Weisel, Chair*



#### **Clinical Programs**

The Division of Cardiac Surgery provides clinical services at three adult teaching hospitals and the Hospital for Sick Children. The University Division works closely with the Cardiac Care Network of Ontario, to provide sufficient Cardiac Surgical Services for Central Ontario. The original goal was to provide 6,000 cardiac surgical procedures per year. Unfortunately, this goal could not be attained and each of the teaching hospitals are struggling to maintain their current volume. The Ministry of Health has been very supportive in providing funding for the anticipated needs of the province. Therefore, the University Division and the Cardiac Care Network have supported the opening of three new Cardiac Surgical Centres around the Toronto area: Trillium, Southlake and Kitchener. Surgeons from the University of Toronto will be staffing each of these units. In addition, the University Division and the Cardiac Care Network have supported the opening of additional cardiac catheterization facilities, in the greater Toronto area, which have increased the number of patients being referred for surgical procedures. The closing of the paediatric cardiac surgical programs in London, Ottawa, Winnipeg and Halifax will continue to increase the number of procedures at the Hospital for Sick Children. Therefore, the University of Toronto Division of Cardiac Surgery, is seeking to recruit and retain academic surgeons for the teaching hospitals and the community surgeons for the new units.

#### **Education Programs**

The Program Director in the Division of Cardiac Surgery is Dr. Charles Peniston. We have selected one or two residents per year, who plan to pursue a career in academic Cardiac Surgery. Dr. Peniston and his committee have had a difficult time selecting among excellent candidates. The University of Toronto has been successful in receiving its first choice each year. The educational program for the residents has expanded and a large number of individuals pursuing academic endeavours, have strengthened the productivity of the Division.

#### **Research Programs**

The Research Director is Dr. Stephen Fremes, who has encouraged the development of an extensive program, which involves clinical and basic research. Dr. Fremes works closely with the group at the Institute for Clinical Evaluative Studies (ICES), at Sunnybrook & Women's College Health Sciences Centre, with clinical efforts performed at all four hospitals. Basic science laboratories are flourishing at the University Health Network, St. Michael's Hospital, the Hospital for Sick Children and recently, at Sunnybrook & Women's College Health Sciences Centre. Both staff and residents have received peer-reviewed funding for their research endeavours.

#### **Recruitment**

Drs. Vivek Rao and Michael Borger have recently joined the staff at the Toronto General Hospital. Drs. Gideon Cohen and Marc Pelletier have recently joined the staff at the Sunnybrook & Women's College Health Sciences Centre. Both St. Michael's Hospital and the Hospital for Sick Children are seeking recruits with a strong academic background.

#### **Academic Achievements**

The number of awards attained by staff and residents, are too numerous to list.

#### **Academic Events**

The Division will host three visiting professors this year: Drs. Pat McCarthy, Rand Griep and Sir Magdi Yacoub. The University Division will host four Coach House presentations and bi-weekly resident seminars. The wet lab program is under the direction of Dr. David Latter which will be conducted at the Surgical Skills Centre at the Mt. Sinai Hospital, St. Michael's Hospital Operating Room, St. Michael's Hospital Robotic Centre and at the Toronto Western Hospital.

#### **Summary**

In summary, the Division of Cardiac Surgery has maintained its pre-eminent position. The clinical programs have stabilized with the opening of community-based Cardiac Surgical Services at three hospitals in the Toronto area. The training program and the research endeavours are well-established and flourishing. The future of academic development is secure in Toronto.

## Division of General Surgery

### **Dr. Zane Cohen, Chair**



I take this opportunity to firstly thank Dr. Lorne Rotstein, Program Director, of our General Surgical Program. I would also like to thank Drs. Marcus Burnstein, Jack Langer and Carol Swallow for their roles in the Colo-rectal Program, the Paediatric General Surgeon Program and the Surgical Oncology Program respectively.

Ten new PGY-1 residents have been accepted into our General Surgical Program for the academic year of 2002-2003. These individuals are Timothy Cheang, Anir Gupta, Marilyn Innes, Shima Kassirian, Steve Lopushinsky, Lynn Mikula, Ted Rapanos, Peter Stotland, Patrick Tawadros and George Zogopoulos. We wish them success in the General Surgical Residency Program which began July 1, 2002.

### **Postgraduate Training**

All of our final year general surgical residents were successful in completing the general Surgical Training Program in the year 2001-2002. They are as follows: Drs. Eddie Akbari, Yasser Botros, Priscilla Chiu, Cameron Gelder, Ali, Jawas, Asher Khitab, Laz Klein, Deepa Kumar, MacMillan Jennifer, Mandelbaum Saul, George Oreopoulos, Crystal Pallister, Stewart Martin, Rakesh Suri, Tang Bao, Shannon Trainor and Leonard Tse.

The residents engaged in full time research in the Surgeon Scientist Program during 2001-2002 were: Drs. Neelesh Jain (Supervisor: M. Cybulsky), Rebecca Gladdy (Supervisor: J. S. Danska), Kouros Moozar (Supervisor: S. Gallinger), Anand Ghanekar (Supervisor: D. Grant), Mylene Ward (Supervisor: H. MacRae), Mary Anne Aarts (Supervisor: J. Marshall), Tracy Asano and Erin Kennedy (Supervisor: R. McLeod), Rachel Khadaroo, Kinga Powers and Giuseppe Papia (Supervisor: O. Rotstein).

### **Promotions**

During this academic year Dr. Lorne Rotstein was promoted to the rank of Full Professor and Dr. Chris Schlachta was promoted to the rank of Assistant Professor.

### **New Faculty**

During the academic year 2001-2002 Dr. Najma Ahmed joined the General Surgical Division at St. Michael's Hospital and is a welcome addition to the University Division of General Surgery in the area of critical care and trauma. Dr. Calvin Law joined the Division of General Surgery at Sunnybrook and Women's College Health Science Centre with a specific interest in Gastrointestinal Oncology. Dr. Andrea McCart joined the Division of General Surgery at Mount Sinai Hospital, with a specific interest in Colorectal Oncology, and a special research interest in gene therapy as it relates to cancer. Slated to join the Division of General Surgery in 2002-2003 will be Dr. Alexandra Easson, Mount Sinai Hospital/University Health Network, Dr. Rob Gryfe, Mount Sinai Hospital/University Health Network, Dr. Sandro Rizoli, Sunnybrook and Women's College Health Science Centre, Dr. Lorraine Tremblay, Sunnybrook and Women's College Health Science Centre and Dr. Paul Wales, The Hospital for Sick Children.

### **Honours and Awards**

Our General Surgical Faculty achieved much recognition during this academic year. A few of the highlights included Dr. Mark Cattral, who was nominated to the Canadian Society of Clinical Investigation, Dr. Alan Dackiw who was awarded the third surgical alumni scholarship in surgical science, Dr. Steven Gallinger, who received the Israel Cancer Research Fund (ICRF) Scientific Award in June 2001. In addition, Drs. Bernard Langer and Leo Mahoney were both named Officers of the Order Canada. Dr. Robin McLeod was elected as President-Elect of the Canadian Association of General Surgeons, and Dr. Richard Reznick was elected Governor of the American College of Surgeons, for a two-year term and named the Gallie Lecturer for the Royal College of Physician and Surgeons of Canada, for 2002.

The Division of General Surgery through its entire membership and with the aid of the faculty matching program at the University of Toronto, has made its first financial contribution to the Bernard and Ryna Langer Chair, in the Division of General Surgery. This is a major accomplishment for all of the Division members and I wish to thank the Division members for their continuing contributions and for their dedication to this cause. A financial commitment to this named chair is expected to be completed by December of 2003.

There were numerous grants achieved by our faculty from the Canadian Institute of Health Research (CIHR), the National Cancer Institute of Canada (NCIC), the National Institutes of Health (NIH), the Physician's Services Incorporated Foundation (PSI) and the Crohn's and Colitis Foundation of Canada, as well as numerous local faculty awards. The total value of all grants received by our faculty during the academic year, as principal investigators was \$3,584,01.00. This is a 30% increase in grant funding from the previous academic year.

Our surgical residents, particularly those in the Surgical Scientist Program were also extremely successful in their grant capture, as well as overall in their academic productivity. Dr. Neelesh Jain received a Physicians Services Incorporated (PSI) Foundation Grant, the Richard Lewar Centre of Excellence Grant and a Health Research Partnership Fund Fellowship. Dr. Rebecca Gladly received a Hospital for Sick Children Fellowship. Dr. Kouros Moozar received an American Society of Colon and Rectal Surgeons Research Foundation Fellowship and Dr. Anand Ghanekar received a CIHR Fellowship and a Faculty of Medicine Postgraduate Award-Chisholm Memorial Fellowship. Dr. Mylene Ward received an Association for Surgical Education Grant, a PSI Grant and a CIHR/ACMC Grant. Dr. Mary Anne Aarts received a Surgical Infection Society Fellowship and Dr. Tracy Asano received a Johnson & Johnson Medical Product Fellowship. Dr. Erin Kennedy received a CIHR Fellowship and Dr. Rachel Khadaroo received an Alberta Heritage Foundation for Medical Research Fellowship, PSI Grant, and a University of Toronto Post-graduate Edward Christie Stevens Award. Dr. Kinga Powers received the CIHR Fellowship and Dr. Giuseppe Papia received a Surgical Infection Society Fellowship.

### **Special Events**

The Annual Assembly of General Surgeons took place in May of 2002. This was once again, a tremendous success. Drs. Steven Gallinger and Carol Swallow organized it and I wish to thank them both. The highlight of this academic day was the presence of Dr. Michael Sarr from the Mayo Clinic who was the Bruce Tovee Lecturer. He did an outstanding job in assessing the presentations and making the awards for best papers to: Drs. Anand Ghanekar and Priscilla Chiu for Best Presentation and Dr. Rachel Khadaroo for Best Poster.

The 42<sup>nd</sup> Annual Update Course for General Surgeons and Residents was held at the end of April 2002. This was once again a two and half-day session, devoted to a variety of topics. The Guest lecturers were, Dr. Chip Cody from Memorial Sloan-Kettering and Dr. Nat Soper from Washington University in St. Louis. Both did an outstanding job! Again, there were a record number of registrants and because of this, we require a larger space for the upcoming Update Courses.

Dr. David McCready again organized the post-graduate course in breast surgery and the second annual minimally invasive surgical post-graduate course was held in the fall. This was organized by Drs. Eric Poulin and Joe Mamazza. Featured guests were Dr. Frederick Greene, Chairman, Department of Surgery, Carolinas Medical Center, Charlotte, North Carolina and Dr. Namir Kathkouda, Professor of Surgery, and Director of the Minimally Invasive Surgery Program and Service, University of Southern California, Los Angeles, California. In addition and once again, live Telesurgery from two of the operating rooms at St. Michael's Hospital, demonstrated their excellent laparoscopic skills.

## Division of Neurosurgery

### Dr. James T. Rutka, Dan Family Chair



#### Resident Achievements

Royal College Examinations

All three graduating residents who took their Royal College Examinations in Neurosurgery passed and received FRCSC: They are: Drs. Mubarak Al-Gahtany; Abhaya Kulkarni; Ayman Al-Shayji

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

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

Dr. Steve Casha: KG MacKenzie Memorial Award (CCNS), 1<sup>st</sup> prize; PSI Foundation Resident Research Award; outstanding paper award at the Neurotrauma Society Symposium. Dr. Brad Jacobs: CIHR Postdoctoral Fellowship; AP North America Resident Trauma Research Award; Codman

Neurotrauma Young Investigator's Award for 2002. Dr. Nicolas Phan: 2001 Synthes Award for Resident Research in Spinal Cord and Spinal Column Injury. Dr. Michael Taylor: PSI Resident Research Award; 2<sup>nd</sup> place research award, American Academy of Neurological Surgeons; runner-up resident research prize winner; KG McKenzie award for best basic science paper, CCNS; Gallie-Bateman First Prize Research Award 2002. Dr. Eve Tsai: 1<sup>st</sup> place poster prize at the CNS Meeting; Women In Neurosurgery and Science Resident Research Award, American Association of Neurological Surgeons. Dr. Abhaya Kulkarni – KG McKenzie 1<sup>st</sup> place award for best clinical research paper, CCNS. Dr. Charles Matouk – Research Fellowship Award, NREF, AANS. Dr. Sheila Singh – Research Fellowship Award from the American Brain Tumor Association. Dr. Gelareh Zadeh – CIHR/CSCI Award for Excellence in Resident Research; Angiogenesis Foundation Research Award; NCIC Student Travel Award.

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

Dr. Steve Casha won 1<sup>st</sup> prize for graduate student seminar presentation, Toronto Western Research Institute Research Day. Dr. Eve Tsai won 2<sup>nd</sup> prize for her poster presentation at the Toronto Western Research Institute Research Day. Dr. Ash Singhal received an Ontario Graduate Scholarship in Science and Technology from the Institute of Medical Science. Dr. Nicolas Phan won 2<sup>nd</sup> prize in the University of Toronto Trauma Research Day, 2002. Dr. Gelareh Zadeh and Dr. Sheila Singh received Postgraduate Medical Education Awards.

Dr. Charles Matouk won this year's Horsey Prize for best clinical research in the Division of Neurosurgery and Dr. Bradley Jacobs, second.

The Morley Prize winners for best basic science research were Dr. Nicolas Phan – first place and Drs. Eve Tsai and Gelareh Zadeh tied for second.

Dr. Moji Hodaie received the Hudson Resident Teaching Award.

Dr. Eve Tsai was the recipient of the Warren Ho Memorial Scholarship.

Dr. Michael Taylor successfully defended his PhD.

#### Faculty Achievements - Awards

Dr. Raj Midha: Premier's Research Excellence Award (PREA); The Hospital for Sick Children Grant; PSI Grant; three-year CIHR grant. Dr. Michael Tymianski: three-year CIHR grant; George Armstrong Peters Award. Dr. Michael Fehlings: CIHR Equipment Grant; Christopher Reeve Paralysis Foundation Grant. Dr. Jim Rutka: three-year renewal of his CIHR grant; a three-year grant from the National Cancer Institute of Canada; and a two-year grant from Katies Kids for the Cure Foundation. Dr. Richard Perrin received the Distinguished Service Award from the Congress of Neurological Surgeons. Dr. Charles Tator received the 2001 Dr. Jonas Salk Prize from the Ontario March of Dimes; and the 2002 Grass Award of the Society of Neurological Surgeons. Dr. Ab Guha: 2002 Farber Foundation Award, American Association of Neurological Surgeons; a Cleveland Clinical Foundation grant; and a five-year grant from the National Cancer Institute of Canada. Dr. Andrei Krassioukov: a grant from the Christopher Reeve Paralysis Foundation. Dr. Karen Davis: A five-year CIHR grant; Dr. Michael Fehlings and Andrei Krassioukov: Heart and Stroke Foundation of Ontario grant; 2001 Larson Award, AANS/CNS. Dr. Fred Gentili: Wight-Berris Academy Individual Teaching Excellence Award. Dr. Mahmood Fazl: Hudson Teaching Award.

### **New Funded Initiatives**

- Official opening of the Krembil Neuroscience Centre at The Toronto Western Hospital.
- Establishment of the C.H. Tator Surgeon Scientist Mentoring Award.
- Establishment of the annual Charles H. Tator/Barbara Turnbull Lectureship in spinal cord injury.
- Establishment of the Laurie Berman Fund in Neuro-Oncology research

### **University of Toronto Neurosurgery Lectureships**

- The Botterell – Dr. Dade Lunsford, University of Pittsburgh.
- The Keith – Dr. Mitchel Berger, University of California at San Francisco.
- The Hendrick – Dr. Dominique Renier, Hopital de Necker Enfants-Malades.
- The Loughheed – Dr. Rob Brownstone, Dalhousie University; Dr. Corey Raffel, Mayo Clinic

### **City-Wide Rounds:**

- Sunnybrook and Women's College Health Sciences Centre, Dr. Eric Woodard, Brigham and Women's Hospital, Boston.
- The Hospital for Sick Children, Dr. John Kestle, Primary Children's Hospital, Salt Lake City.
- Toronto Western Hospital, Dr. Joe Piepmeier, Yale University, New Haven, Connecticut.

### **Promotions**

Dr. Michael Tymianski and Dr. William Hutchison have both been promoted to the rank of Associate Professor effective July 1, 2002. Dr. Jean Saint-Cyr was promoted to Full Professor, July 1, 2001.

### **New Faculty Recruits**

Dr. Eric Massicotte, Assistant Professor, has joined us at (UHN) Toronto Western Hospital, effective July 1, 2002. The number of publications by neurosurgery faculty and residents equaled 69 with 74 Visiting Professorships by the faculty.

### **Appointments**

Dr. Ab Guha has been elected a member of the Board of Directors (Basic Science) for SNO and has been appointed to the Journal of Neuro-oncology Editorial Board; appointed to the Cancer Review Panels of the National Cancer Institute of Canada and the CIHR; Inaugural Chairholder of the Alan and Susan Hudson Chair in Neuro-oncology Dr. Andres Lozano has been named Chair of the Stereotactic and Functional Neurosurgery Committee for the World Federation of Neurological Surgeons and also Secretary-Treasurer from 2001 to 2005, for the World Society for Stereotactic and Functional Neurosurgery Dr. Andres Lozano has been appointed to the Canadian Institutes of Health Research Clinician Scientist Awards Committee and has been elected an Honorary Member of the Neurosurgical Society of Para, Brazil, as well is the recipient of the RR Tasker chair in Stereotactic and Functional Neurosurgery. Dr. Jim Rutka has been elected to the position of Chair of the Neuro-Oncology Committee of the World Federation of Neurological Surgeons and appointed to the Executive Council of the Society of Neurological Surgeons. Dr. Mark Bernstein has joined the Editorial Board of Neurosurgery Quarterly. Dr. Michael Fehlings is the Inaugural Chairholder of the Krembil Chair in Neural Repair and Regeneration has been appointed as Director of the Neural Sensory and Sciences Program at the University Health Network and appointed to the Neurosciences "A" Committee of the Canadian Institutes of Health Research. Dr. Alan Hudson has been appointed President and CEO of Cancer Care Ontario. Dr. Charles Tator has been appointed Chairman of the Canadian Brain and Health Coalition and is first incumbent of the Robert Campeau Family Foundation Chair in Brain and Spinal Cord Research at the Toronto Western Hospital and the University Toronto.

### **Hosted Functions**

- 2002 Society of Neurological Surgeons Annual Meeting
- First Annual Peripheral Nerve Symposium

Dr. E. Bruce Hendrick (Professor Emeritus) passed away on Friday, August 17<sup>th</sup>, 2001.

## Division of Orthopaedic Surgery

### **Dr. James P. Waddell, A.J. Latner Professor & Chairman**



The Division of Orthopaedic Surgery had another eventful year. At the request of the Chairman of the Department of Surgery, the current leadership of the division was reviewed by Dr. Clive Duncan, Professor & Chairman, Department of Orthopaedic Surgery, University of British Columbia. Dr. Duncan's review was comprehensive and resulted in a number of recommendations for the division in terms of future growth and development. These recommendations, coupled with the changes undertaken in preparation for the Royal College review the previous academic year, will form the blueprint for academic programs, growth and development within the Orthopaedic Division for the next five years.

The Orthopaedic Division also undertook a medical student educational initiative unique to orthopaedics in Canada. Copying liberally from the Department of Psychiatry, University of Toronto, we held our first ever education week for second-year medical students interested in pursuing a career in orthopaedic surgery. Applications were invited from all Ontario medical schools, and 15 students were selected to participate in week long activities. These activities consisted of clinical and didactic educational opportunities as well as opportunity for interaction with both faculty and residents. This was a very successful week and we intend on repeating it on an annual basis. This program was developed in response to declining numbers of applications for orthopaedic training across Canada and it is hoped that this will be duplicated by other medical schools, to increase interest in orthopaedic surgery as a career.

Academic activity in the division continued to flourish. Once again, peer-reviewed publication exceeded the previous year; in addition peer review grant support also improved substantially over the previous year. This academic activity is reflected not only in these publications but also in invitations to other universities, named lectureships and participation in national and international meetings. The continued involvement of orthopaedic residents in research, both clinical and basic science research, is evident by the authorship of a number of these publications and presentations.

Because of decreased opportunity for orthopaedic residents to participate in basic science research, a decision was taken this past academic year to reinstate the mandatory one year of basic science research in orthopaedic surgery. This had been the custom up until three years ago when financial circumstances forced us to abandon this compulsory year. It is anticipated by reinstating the compulsory year and exposing residents to basic science research, there will be renewed interest in the Surgical-Scientist Program and therefore increased interest amongst the residents, in pursuing a career in academic Orthopaedic Surgery, at completion of their training.

There were many visitors to the division in the past academic year, but the highlights were the 2001 Kennedy Visiting Professor, Dr. Freddie Fu, the Professor & Chairman of Orthopaedic Surgery at the University of Pittsburgh, who provided excellent insight into the academic potential of the much maligned subspecialty of sports medicine in Orthopaedic Surgery. Faculty and residents alike were impressed by Dr. Fu's vision for the future and what he has established in Pittsburgh, in the area of sports medicine research and clinical care. The Basic Science Visiting Professor was Dr. Sandra Kirkley from the University of Western Ontario, who not only judged the resident presentations for the basic science research day but gave a masterful address on the planning and pitfalls of clinical trials research, in which she is a recognized North American expert.

The ABC Travelling fellows spent an enjoyable few days in Toronto both in clinical and recreational pursuit – this visiting fellowship represents the academic high-point of such travelling fellowships and we were delighted to be able to entertain them while they visited Toronto.

Individual members of the division were singled out for excellence this past year. Those recognized included Tony Miniaci, promoted to Professor of the Department of Surgery, as of July 1, 2002. In addition, Dr. Miniaci was awarded the CORE/ACOR award from the Canadian Orthopaedic Association, for his research work. Dr. Rod Davey was recognized for teaching excellence receiving the R.B. Salter Teaching Award in Orthopaedic Surgery, as selected by the residents in the Orthopaedic Training Program. Dr. Herb von Schroeder was awarded the Robert Salter Award by the Canadian Orthopaedic Research Society, to support his continuing research activities in the University of Toronto Hand Program.



Dr. James Wright won the Kappa Delta Award from the American Academy of Orthopaedic Surgery, Orthopaedic Research Society. Dr. Wright was also awarded the Lister Prize by the Department of Surgery, University of Toronto. Dr. Ben Alman was awarded the Royal College Medal Award in Surgery. He was also awarded the George Armstrong-Peters prize by the Department of Surgery, for his research activities. Dr. Douglas Hedden received the PAIRO Trust Fund Travel Award, for study in areas relating to resident education.

Dr. Allan Gross was awarded the Canadian Orthopaedic Association Presidential Award, for excellence and recognition of outstanding contributions to Orthopaedic Surgery. Dr. Erin Boynton was awarded the Samson Award by the Canadian Orthopaedic Association; this award is presented annually to the most outstanding orthopaedic research in Canada. Dr. Bob Bell was elected President of the Musculoskeletal Tumour Society and Dr. Bell and Dr. Jay Wunder hosted the Musculoskeletal Tumour Society meeting in Toronto.

Dr. Earl Bogoch was appointed Director of the Mobility Program at St. Michael's Hospital

St. Michael's Hospital established a new Biomechanics Laboratory; this laboratory will focus primarily on fracture fixation and will compliment the Bone-Blood Flow Laboratory currently in place at St. Michael's.

There was one major move, one retirement and two new appointments to the Division:

Dr. Robin Richards moved from St. Michael's Hospital to Sunnybrook & Women's College Health Sciences Centre, to assume the position as Surgeon-in-Chief of that institution. Dr. Richards' relocation continues the strong tradition of orthopaedic surgeons serving in the capacity of Surgeon-in-Chief, at various teaching hospitals within the University of Toronto.

Dr. John Graham after many years of service at the Toronto General Hospital, Toronto Western Hospital and eventually the University Health Network, has resigned his position as a staff surgeon. John is recognized for his excellent teaching ability both at the undergraduate and postgraduate level. John is going to continue his clinical work in Campbell River, where he is joining one of his former residents Dr. Deke Botsford in practice.

Dr. Mel Catre has been appointed to the Division of Orthopaedic Surgery at the Toronto East General Hospital. Mel is a graduate of the University of Toronto Training Program and we look forward to having him join the faculty.

Dr. Unni Narayanan has joined the staff at the Hospital for Sick Children. Unni's primary clinical interest is in Cerebral Palsy and his research interest is in Epidemiology and he will compliment the already strong Epidemiology presence in the division.

We are looking forward to the next year in the expectation, as always, that there will be continued improvement and development of academic Orthopaedic Surgery at the University of Toronto.

## Division of Plastic Surgery

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



The Division of Plastic Surgery had a successful year with accomplishments in teaching and peer recognition helping to keep it at the forefront of North American academic plastic surgery.

#### **Special Achievements**

Dr. John Semple completed his term as President of the Canadian Society of Plastic Surgeons. Dr. Nancy McKee completed her one-year term as President of the American Society for Peripheral Nerve and presided over its annual meeting in Cancun, Mexico in January 2002. Dr. Ron Zuker was elected Vice President of the American Society of Reconstructive Microsurgery and will assume the Presidency of that organization in January 2003. Dr. Peter Neligan was elected to the Board of Directors of the American Society of Plastic Surgeons, at its annual meeting in Orlando in November.

#### **Surgeon Scientist Program**

Dr. Kyle Wanzel completed his MEd degree and returned to the clinical stream in July. Dr. Wanzel was runner-up in the Gallie-Bateman competition. Dr. Cory Goldberg continues in the Surgeon Scientist Program under the supervision of Dr. Jeff Fialkov while Dr. Alan Eckhaus entered the program under the supervision of Dr. Joel Fish.

#### **Awards**

Several awards were won, both by residents and staff, this year. Dr. Kyle Wanzel won the Award for Best Poster at the Canadian Society of Plastic Surgery. Dr. Dimitri Anastakis was the winner of the W.K. Lindsay Research Supervisor Award, as well as the Arnis Freiberg Teaching Award. This marks the first time that one individual won both awards in the same year. Dr. Anastakis also won an award for the best paper at the annual American Society for Surgical Education meeting. He was also the recipient of this year's Ross Fleming teaching award. The PAIRO Excellence in Teaching Award was presented to Dr. Howard Clarke.

#### **Training Program**

Five residents graduated from the Program this year: Drs. Sean Rice, Nancy DeKleer, Faisal Shareefi, Zvi Margalot and Doug Grance. All were successful in their Royal College examinations.

#### **New Appointments**

Dr. Joan Lipa was appointed to Toronto General Hospital, with a clinical interest in Oncologic reconstruction and a research interest in flap physiology. Dr. Eamon Beausang was recruited to Mount Sinai Hospital also with a clinical practice in Oncologic Reconstruction. Dr. Peter Bray was appointed to the Toronto Western Hospital. Dr. Bray's practice is in General Plastic Surgery and he has an academic interest in clinical informatics.

#### **Academic Events**

The 2002 Hoyle Campbell Visiting Professor was Dr. Stephen Mathes from UCSF. The annual University of Toronto Aesthetic Symposium was held in April, with a very large attendance and excellent reviews. The second annual Toronto breast symposium was held the day before the Aesthetic Symposium to equally good reviews. The annual Upper Extremity Update was held in collaboration with the Division of Orthopaedic Surgery at the St. Michael's Hospital.

#### **Surgical Skills Centre**

The Division took advantage of the Surgical Skills Centre to stage several teaching events during the year. These included teaching sessions on Facial Implants; Clinical Digital Photography; Cutaneous Flaps; Craniofacial Surgery; Facial Injectables; lower leg flaps; the brachial plexus; as well as a practical two-day course on Microvascular surgery.

## Division of Thoracic Surgery

### ***Dr. Robert Ginsberg, Chair***



The Thoracic Surgical Services continues to have the largest clinical activity of any Thoracic Service in Canada. Our Transplant Program continues to burgeon, being one of the top five in the world as far as number of transplants per year. We have recently instituted a Foregut Section, which will focus on clinical and academic endeavours related to diseases of the esophagus and proximal stomach. Our program continues to be the primary tertiary referral centre for most of Ontario and quaternary referral centre, for the rest of Canada.

Our service is heavily involved in clinical trials. In one North American trial, two of our surgeons are co-principal investigators of the international trial and in Canada, we are principal investigators of two national trials.

### **Teaching and Research**

The University of Toronto continues to be the largest and most comprehensive training program in the country for General Thoracic Surgery. Drs. Darling and Waddell received Berris-Wightman Awards, for their undergraduate teaching accomplishments. As well, the Division has instituted two awards – The F.G. Pearson Award for Best Resident/Fellow Teacher, awarded to Dr. John Samphire and Dr. Matt Kilmurry, and the R. J. Ginsberg Award for Best Postgraduate Teacher, awarded to Dr. R. J. Ginsberg.

The thoracic surgical research laboratories continue to enlarge under the direction of Drs. Keshavjee, Liu, Johnston and Waddell, providing a stimulating research environment, for ex-trainees investigating areas of lung injury and end-stage lung disease and Thoracic Oncology.

The Service has developed a broad-based interest in minimally invasive surgery exploring this approach in the management of both benign and malignant thoracic conditions. There has been an increasing interest in managing Esophageal Disease. Dr. Darling is co-ordinating this effort.

### **Retirement & Recruitment**

The Division has recruited Dr. Andrew Pierre who assumed his duties August 2002, as an attending Thoracic Surgeon at the Toronto General Hospital. Dr. Pierre's interest is in minimally invasive surgery and he has completed a Fellowship at the University of Pittsburgh. He will participate in the development of the Foregut Section.

### **Achievements**

One of the most successful Thoracic Surgical Refresher Courses, the 29<sup>th</sup> Annual, was held this past June, with excellent attendance from many continents.

## Division of Urology

### Dr. Sender Herschorn - Chair



#### Faculty Appointments, Promotions, Honours and Changes

This year the Division Faculty consists of 20 geographic full-time surgeons and one Ph.D. Scientist. The hospital restructuring started 10-years ago, was completed to enable the Faculty to be geographically on three sites, Sunnybrook and Women's College Health Sciences Centre, St. Michael's Hospital and the hospitals in and around University Avenue (University Health Network, Mt. Sinai and Hospital for Sick Children). The Wellesley Hospital site closed. This has permitted more focused programmatic activities on each site in terms of research and education as follows:

#### Programs and Participants

1. Oncology – University Health Network, Sunnybrook and Women's College Health Sciences Centre (St. Michael's Hospital).
2. Stone Disease and endourology – St. Michael's Hospital, (University Health Network, Sunnybrook and Women's Health Sciences Centre, Mount Sinai Hospital).
3. Neurourology and reconstruction – Sunnybrook and Women's College Health Sciences Centre, Toronto Western Hospital, The Hospital for Sick Children.
4. Andrology – Mount Sinai Hospital.
5. Transplant – Toronto General Hospital, St. Michael's Hospital, The Hospital for Sick Children.
6. Pediatrics – The Hospital for Sick Children.
7. Minimally Invasive Surgery – University Health Network, St. Michael's Hospital.

The Faculty continued their global activities and leadership was provided in international clinical trials and many national and international urological organizations.

#### Hospital for Sick Children

Dr. Darius Bägli continued his basic research in bladder physiology. He had two fellows, both funded by the American Foundation of Urologic Disease. Dr. Jyoti Upadhyay, MD, one of the second year fellows (June 2001 to July 2002) studied the Role of Integrins in Stretch Induced Fibroproliferative Bladder Disease. In addition, Dr. Stephane Bolduc, MD, the other second year fellow, also received a one-year Bourse de Recherche Clinique from Laval University (June 2001 to July 2002) to conduct work in the same lab. He studied bladder smooth muscle responses to matrix proteolysis in vitro and in whole bladder ex vivo.

Dr. Darius Bagli and Dr. Dan Herz (fellow) won the American Academy of Pediatrics Section on Urology Research prize at the October 20 – 24, 2001 meeting for the paper, "Reversibility of extracellular-matrix induced bladder smooth muscle growth". Dr. Dan Herz presented the paper on behalf of himself, Karen Aitken (Research Assistant), and Dr. Darius Bagli (Supervisor). This is the largest annual gathering for Paediatric Urology and undoubtedly, a very prestigious prize. In the past five years, The Hospital for Sick Children, Division of Urology has won this prize twice and finished second once.

Dr. Darius Bagli and his research team received three-year funding from CIHR as the Principal Investigator on his grant entitled: The role of Erk MAP kinase in bladder smooth muscle cell response to injury.

Dr. Bagli was promoted to Associate Professor this year as of July 1, 2002.

Dr. Walid Farhat, Assistant Professor, joined the Division of Urology this year. Dr. Farhat is a graduate of the American University of Beirut Medical School and its Urology Program. He completed a Paediatric Urology Fellowship in the Division at the Hospital for Sick Children. In addition to his clinical and teaching responsibilities, Dr. Farhat is a "Scientist Track" appointee at the Hospital for Sick Children Research Institute as a surgeon-investigator. His area of interest is Tissue Engineering and repopulation of acellular matrices for the purpose of bladder reconstruction.

Dr. Tony Khoury, Professor, was promoted last year and continued as division head. Dr. Khoury became Chairman of the Canadian Urological Association Scholarship Foundation. The foundation is responsible for awarding salary support grants to urologists who are starting their academic careers. Dr. Khoury and co-investigators Dr. Lori Burrows (Division of Urology), and Dr. Frank Dicosmo (Institute of Biomaterials and Biomedical Engineering), have received a two-year grant from the Kidney Foundation of Canada for their project, "Development of anti-microbial coatings for peritoneal catheters suitable for simultaneous exchange procedures".

Dr. Gordon McLorie, Associate Professor, finished his term as President of the Canadian Urological Association, and presided over the annual meeting in Toronto, June 2001. He continued his work in Clinical Paediatric Urology. He was promoted to Full Professor this year for his many contributions to the field of Paediatric Urology.

Dr. Lori Burrows, Assistant Professor, continued as Director of the Centre for Infection and Biomaterials Research. The Centre moved from the Toronto General Hospital to the Hospital for Sick Children where she supervised 11 members, including Tony Finelli (PGY-5) in his Master's thesis, which he successfully defended. Dr. Burrows successfully passed her three-year review. Her Ph.D. student Julianne Kus, won the basic science (McMurrich) award at the 1<sup>st</sup> Annual Gallie-Bateman Poster presentations in May 2002. The poster title was "Diversity of type IV pilins in naturally-occurring isolates of *Pseudomonas aeruginosa*", the authors being Julianne V. Kus, Winston Wong (a fourth-year Microbiology student) and Dr. Burrows. This work is part of Dr. Burrows' CIHR-funded project on "Cell surface structures that influence biofilm formation by *Pseudomonas aeruginosa*".

### **Mount Sinai Hospital**

Dr. Martin Bucksman, Associate Professor, ceased his surgical practice and remained active in the ambulatory setting. In recognition of his contribution to postgraduate education, he was awarded the Division of Urology Residency Clinical Teaching Award, 2001-02.

Dr. Keith Jarvi, Associate Professor, continued to lead the Andrology Program with peer-reviewed funding and supervises a Fellow, post-doctoral student, and resident in the Surgeon Scientist Program. He was one of the supervisors of Tony Finelli (PGY-5) in his Master's program. He is developing the Koffler Men's Health Centre at Mount Sinai Hospital with John Trachtenberg.

Dr. Armand Zini, Assistant Professor, continued his basic research in infertility. He was successful in obtaining peer-reviewed grant funding and was promoted to Associate Professor, July 1, 2002.

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

Dr. Lesley Carr, Lecturer, continued to direct the Urology School for the residents. She led the creation of and is the Medical Director of the Women's Pelvic Health Centre at Women's College Ambulatory Care Centre of Sunnybrook and Women's College Health Sciences Centre. This was founded with a three-year grant of close to \$700K for program development from Sunnybrook and Women's Innovation Fund. The Centre started operation in October of 2001 and will hold a Continuing Education program in September of 2002, supported by a grant from Janssen-Ortho.

Dr. Neil Fleshner, Assistant Professor, continued his leadership in studies of prevention of prostate cancer. He is the Co-Principal Investigator with Robert Bristow of the University Health Network in a five-year inter-institutional prostate cancer network grant by the Canadian Prostate Cancer Research Initiative (NCIC). The network for molecular prostate cancer research will initially include doctors and scientists from the University of British Columbia, McGill University, and the University of Toronto (Rob Bristow and Rama Khokha from the Department of Medical Biophysics; Jeremy Squire, Department of Laboratory Medicine and Pathobiology; Drs. Neil Fleshner; and Laurence Klotz of the Department of Surgery). The network is designed to facilitate genetic and cellular testing of prostate cancer patients to improve diagnosis and treatment of prostate cancer. The project title is: Canadian molecular and micronutrient prostate cancer network. Co-applicants are Martin Gleave and Paul Rennie from the University of British Columbia. The award is for a total of \$2,982,160.

Dr. Neil Fleshner was promoted to Associate Professor this year. He was also named Chief of Division of Urology at the University Health Network, as of July 1, 2002. He will be moving from Sunnybrook and Women's College Health Sciences Centre where he has worked, since starting his Uro-Oncology career in July 1997.

Dr. Sender Herschorn, Professor, began a five-year term July 1, 2001 as Chair of the University Division. He continued as the Departmental Director of Continuing Professional Development. He continued his industry-funded research in incontinence and voiding dysfunction as well as erectile dysfunction. He was the Chair of the Surgical Committees at the second World Health Organization sponsored International Consultation in Urinary Incontinence in Paris in July. He was guest faculty at the 8<sup>th</sup> Annual Paul Peters Urology Symposium, sponsored by the Urology Department at University of Texas Southwestern Medical School, Dallas. He gave three talks on lower urinary tract problems. He was also Visiting Professor to the Division of Urology University of Ottawa, in April 2002 and lectured on clinical management of incontinence and complex reconstruction and judged their annual resident research presentations.

Dr. Herschorn was Course Director of Urology Update, 2001. This was the ninth year of the Continuing Education Seminar, which attracted over 300 participants. The planning committee consisted of Drs. John Honey, Sidney Radomski, and Dr. John Trachtenberg.

Dr. Herschorn won the Bruce Tovee Teaching award from the Department of Surgery University of Toronto, for Undergraduate Teaching, 2001-2002.

Dr. Laurence Klotz, Professor, continued his research in Uro-oncology. He also continued as Chair of the Global GU Group, Toronto Sunnybrook Regional Cancer Centre Head of the GU site group, and as Editor-in-Chief of the Canadian Journal of Urology. He was given a special award by the CUA in recognition of his success in obtaining indexation for the journal. Dr. Klotz was co-director of Urology Update 2001 in November, and chaired a successful seminar on prostate cancer in Jamaica, sponsored by AstraZeneca in February. He was Visiting Professor in the Division of Urology at Memorial Sloan Kettering Cancer Centre, New York City in April 2002. He received a grant from the Canadian Prostate Cancer Research Foundation, in May, for his project entitled: A feasibility study for a phase III clinical trial of standard treatment versus active surveillance with selective delayed intervention for localized, favourable risk prostate carcinoma. He also continued his work as part of other peer-reviewed trial including the Select Trial and Differential Gene Expression in Prostate Cancer.

Dr. Ron Kodama, Associate Professor, continued as Program Director for the division. He also helped organize the weekly Urology school and chaired the Resident Program Committee. He also started the Annual Basic Science Course for PGY-2 and three Ontario Urology residents with a grant from Bayer. The second meeting was held in October 2001 and in the future, the seminar will be expanded to include residents from across Canada. Dr. Kodama also won the A.W. Bruce Division of Urology Undergraduate Education Award, which he has done consistently since the award began.

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

Dr. John Honey, Assistant Professor, continued as Director of the Urolithiasis and Lithotripsy Program at the University and was reappointed Head at St. Michael's Hospital for another term. He continued his work with a Kidney Foundation of Canada grant to study laparoscopic donor nephrectomy, which was pioneered at St. Michael's Hospital.

Dr. Honey obtained the UroMentor simulation system in the Division of Urology at St. Michael's Hospital with a grant from Cook Canada. The UroMentor is a state of the art virtual reality endoscopic simulator for endourology training. The features include a realistic 3-dimensional simulation of the anatomy of the lower and upper urinary system, full representation of ureteroscopy through direct vision and fluoroscopy utilizing contrast. It provides instructors with a tool for didactic self-designed training and objective performance assessment of their trainees. The trainees become familiar with endourology tools and their therapeutic use. The simulator is available for resident training through The Endourology Unit at St. Michael's Hospital. He was promoted to Associate Professor this year.

Dr. Robert Stewart, Assistant Professor, continued his work in the vascular biology research laboratory. He focused on vascular endothelial growth factor in human prostate cancer.

### **University Health Network - Toronto General Hospital**

Dr. Michael Jewett, Professor, continues as Head of Urology at the University Health Network until the end of this academic year. He chaired a conference called Informatics Solutions for Prostate Cancer in October 2001, sponsored by the Canadian Prostate cancer Research Initiative. The mission of this Workshop was to inspire research and application of medical informatics to reduce the impact of prostate cancer on the health of Canadians. Dr. Jewett co-chaired Uro-Oncology Day 2002, organized by the GU site groups at Princess Margaret Hospital and Toronto-Sunnybrook Regional Cancer Centre, at the Old Mill in February. His research continued in peer-reviewed trials including the SELECT Trial funded National Cancer Institute (USA) and SWOG with Drs. Trachtenberg and Tshilias; also Differential Gene Expression in Prostate Cancer with Drs. Squire, Trachtenberg and Dr. Klotz from the National Cancer Institute of Canada.

Dr. Jewett won the annual Division of Urology Postgraduate Teaching Award from Surgical Education, for 2001-2002.

Dr. Michael Robinette, Associate Professor, continued as the main urologist in the Transplant Program. He won an award from the Kidney Foundation for lifetime achievement.

### **University Health Network - Princess Margaret Hospital**

Dr. John Trachtenberg, Professor, is Director of the Prostate Centre at Princess Margaret Hospital.

He continued his peer-reviewed and industry funded program in prostate cancer research. His projects included: Adjusting treatment to meet patient preferences: a molecular and psychosocial approach (Princess Margaret Hospital Foundation); The SELECT Trial (National Cancer Institute (USA), SWOG); Differential Gene Expression in Prostate Cancer (National Cancer Institute of Canada); Preference functions for a health state classification for prostate cancer; Preference functions for a health state classification system for prostate cancer (Canadian Institutes of Health Research); Development of a prostate cancer prevention clinic. (Princess Margaret Hospital Foundation); Genetic immunotherapy of cancer. (Canadian Institutes of Health Research). In collaboration with others he is also initiating a phase one NIH sponsored trial of photodynamic therapy in prostate cancer. He is also continuing to develop thermotherapy as a minimally invasive treatment of prostate cancer. With Dr. Robert Nam and others at Prostate Centre he is continuing to

find means to define population at risk of developing and progressing with prostate cancer. He is developing the Koffler Men's Health Centre at Mount Sinai Hospital with Dr. Keith Jarvi.

The Conference in Prostate Cancer (ICPC) is also an annual event under Dr. Trachtenberg's direction and that of Dr. Larry Goldenberg, Chief of Urology at University of British Columbia. The 11<sup>th</sup> conference was held at Whistler Mountain, British Columbia in March 2002.

Dr. Trachtenberg was Visiting Professor at Washington University in St. Louis, Missouri in April, 2002. He was also the podium wrap-up speaker in Advanced Prostate Cancer at the American Urological Association Meeting in Orlando, Florida, in May 2002.

Dr. John Tsihlias, Assistant Professor, continued his basic research in prostate cancer. He resigned from the Division at the end of June 2002 to begin a community practice in Etobicoke.

### **University Health Network - Toronto Western Hospital**

Dr. Magdy Hassouna, Associate Professor, continued his work on a CIHR grant in studying the role of vanilloid receptors in the bladder following spinal cord injury. He also continued his clinical role as the only urologist in Ontario performing sacral nerve root neuromodulation for voiding dysfunction. Magdy was invited as a guest speaker at the Italian Society of Urodynamics annual meeting in Milan Italy in April 2002. He was also elected Secretary/Treasurer of the International Society of Pelvic Neuromodulation in April as well.

Dr. Sid Radomski, Associate Professor, continued his role as the Urology co-ordinator in the Surgical Skills Lab. He conducted hands on sessions for the residents in various minimally topics during the year. He also was on the organizing committee for Urology Update, 2001.

### **New Appointments**

Dr. Kenneth Pace completed his Masters in Clinical Epidemiology and a Fellowship in Minimally Invasive Surgery with Dr. Eric Poulin at St. Michael's Hospital. He started at St. Michael's Hospital in July 2002, to build a Clinical Epidemiology Program in Stone and Endourology and Minimally Invasive Surgery.

Dr. Robert Nam completed his Masters in Clinical Epidemiology while in the Surgical Scientist Program. He completed the University of Toronto Uro-Oncology Fellowship at the Toronto General-Princess Margaret Hospital and Sunnybrook and Women's College Health Sciences Centre in June. He was successful in obtaining a Canadian Urological Association scholarship award for his first year. He was also successful in obtaining a peer-reviewed grant, from the Canadian Prostate Cancer Research Foundation, for his project entitled: Genetic and serological testing for prostate cancer. He started this work in collaboration with Dr. John Trachtenberg.

### **Academic Events & Divisional Awards**

The 10<sup>th</sup> Annual Robson Research Day was a resounding success. Dr. Alan Wein, Professor and Chair of the Division of Urology, at the University of Pennsylvania, was the Visiting Professor and spoke about 'Pharmacologic management for refractory overactive bladder'.

Dr. Keith Jarvi was the Scientific Program Director and collected 23 presentations from residents, fellows and medical students. The overall quality of work was extremely high. The four judges were Drs. Herschorn, Honey, Jarvi, and Wein.

The winners of the competition in the various categories were:

#### **Resident 1<sup>st</sup> Prize – Basic Research**

Dr. Eddie Matsumoto for "Virtual Reality (VR) Ureterscopy Simulator as a Valid Tool for Assessing Endourological Skills"; Drs. S. Bilgasem, K.T. Pace, and R.J.Honey.

#### **Resident 2<sup>nd</sup> Prize – Basic Research**

Dr. Bobbie Shayegan for "Isolated Abnormality of Sperm DNA Integrity in Male Infertility is Uncommon"; Drs. K.Jarvi, A.Zini

#### **Fellow 1<sup>st</sup> Prize – Basic Research**

Dr. J.Upadhyay for "Intergrins Mediate Bladder Smooth Muscle Cell Growth In Vitro"; Drs. S. Bolduc, K.Aitken, and D.J. Bagli

#### **Fellow 2<sup>nd</sup> Prize – Basic Research**

Dr. Mark Fischer for "Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Gene Mutations in Oligoaesthenospermic Males: Genotypephenotype Correlations"; Drs. Lap Chee Tsui, M. Corey, J.Zielenski, J.Tzountzouris, P.Durie, and K.Jarvi

#### **Resident 1<sup>st</sup> Prize – Clinical**

Dr. Arthur Grabowski for “Organ Sparing Surgery for Suspected Testicular Tumors”; Drs. R.A. Rendon, and M.A.S. Jewett

#### **Resident 2<sup>nd</sup> Prize – Clinical**

Dr. Ben Chew for “Laparoscopic Radical Nephrectomy in Morbidly Obese Patients”; Drs. D.Birch, A.Obied, J.Chan, P.Whelan, A. Kapoor from McMaster University, Hamilton.

#### **Fellow 1<sup>st</sup> Prize – Clinical**

Dr. Robert Nam for “An SNP of the Human Kallikrein-2Gene (KLK2) Highly Correlates with Serum HK2 Levels and in Combination Enhances Prostate Cancer Detection”; Drs. W.W.Zhang, J.Trachtenberg, E. Diamandis, A.Toi, J.Tsihlias, J.Sweet, A.Evans, M.A.S Jewett, and S.A.Narod.

#### **Fellow 2<sup>nd</sup> Prize – Clinical**

Dr. Kenneth Pace for “Laparoscopic versus open donor nephrectomy: A cost utility analysis”; Drs. V. Phan, S. Dyer, E. Poulin, C. Schlacta, J. Mamazza, R. Stewart, and R.J. Honey

The Robson Dinner was held at the Vaughan Estate and was attended by most members of the Division and community Urologists from partially-affiliated teaching hospitals. On the following morning at special inter-hospital rounds, Dr. Wein spoke about Physiology and Pharmacology of the Lower urinary tract. He then conducted a two-hour clinical session with the Urology residents.

#### **Other Awards won by Residents and Fellows**

Dr. Eddie Matsumoto, PGY-4, received the Johnson & Johnson Medical Products-Surgical Scientist Program fellowship for \$25,000 for the work he did in surgical education research in Urology.

Dr. Ben Chew, PGY-4, the Harrison award for Clinical Clerk Teaching at Sunnybrook and Women’s College Health Sciences Centre in June.

Dr Marc Anthony Fischer, Fellow with Dr. Keith Jarvi was the recipient of a combined CIHR/Kidney Foundation of Canada Research Fellowship for investigation of CFTR gene mutations and male infertility.

#### **Uro-Oncology Fellowship**

The first University of Toronto Uro-Oncology Fellowship began at the University Health Network and Sunnybrook and Women’s College Health Sciences Centre. It is funded jointly by Astra-Zeneca and Abbott Laboratories and supervised by Drs. Michael Jewett and Laurie Klotz.

#### **Undergraduate Education**

Undergraduate Education is a priority in the division, as evidenced from the number of teaching awards, and it has become an extremely popular rotation for University of Toronto medical students.

In Year 3, there are three-week rotations and in Year 4, the rotations are two weeks as part of the Surgical rotations. Urology residents frequently win undergraduate teaching awards.

The division participates in the Arts and Science of Clinical Medicine series for pre-clerkship students, and the Year-3 and Year-4 seminar series. There is also one week Foundations of Clinical Medicine series, on a yearly basis, during which Urology topics are introduced in lecture format to Year-2 students.

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

Elective students, usually those interested in pursuing Urology as a career, are welcomed. Many students from the University of Toronto and other universities in Canada and abroad, participate regularly.

The division also participates in the medical student evaluation process.

#### **Postgraduate Education**

There are a total of 20 residents in the Program. In addition, there are 11 fellows in clinical and research positions.

Dr. Ron Kodama is the Program Director with Dr. Leslie Carr, organizing the Urology School. Dr. Kodama chairs the Resident Program Committee, which meets on a regular basis and has broad-based representation.

Graduates of the program in 2002, were Drs. Gina Defreitas, Frank Papanicolaou, and Sharon Sharir. They all were awarded their Fellowships from the Royal College. Dr. Defreitas was successful in obtaining a Fellowship in Female



Urology, at Southwestern Medical Centre in Dallas. Dr. Papanicolaou is continuing as a Fellow in Pediatric Urology, at the Hospital for Sick Children and Dr. Sharir as a University of Toronto Uro-Oncology Fellow.

Three new PGY 1 residents were welcomed in July; Drs. Ryan Groll and Tyler Rouse from the University of Toronto and Dr. Michael Pianezza from the University of Ottawa. Dr. David Hajek is also joining the Division as a PGY-2, in transfer from the University of Pittsburgh.

The 7th Urology Fair for resident selection, which is a national event, was held in January of 2002, in Toronto, with all programs sending interview teams for all the Canadian 4th year students interested in Urology programs. Dr. Ron Kodama was appointed as co-ordinator for the next three years.

Dr. Ron Kodama also started an Annual Basic Science Course for Ontario Urology Residents. It was held in October and will be expanded to include Canadian residents. It is funded by an educational grant from Bayer.

### **Urology School**

Every Friday morning residents from all hospitals attend weekly didactic and interactive teaching seminars. Dr. Lesley Carr organizes the yearly program. It includes a monthly journal club and regular Surgical Skills lab sessions organized by Dr. Sid Radomski.

### **Visiting Professors**

The division also arranges a series of Visiting Professors who conduct teaching sessions with the residents, usually during Urology School. Visiting Professors this year included, Drs. Douglas Husmann from the Mayo Clinic, Dr. Michael O'Donnell from the University of Iowa, and Dr. Alan Wein from the University of Pennsylvania.

During the Urology Update, visitors included Drs. William D. Steers, University of Virginia, Gerald Brock and John Denstedt of University of Western Ontario, Yves Fradet, Laval University, Gary E. Leach, Cedars-Sinai, Los Angeles, CA, Laurence A. Levine, Rush University, Chicago, IL, Judd W. Moul, Center for Prostate Disease, Rockville, Michael O'Leary, Harvard Medical School, Glenn Preminger, Duke University Medical Center, and Richard D. Williams, University of Iowa Hospital.

### **Weekly Clinical and Research Rounds**

The division holds weekly rounds throughout the academic year.

University Health Network (with Mount Sinai Hospital) Thursdays –Norman Urquhart 4<sup>th</sup> Floor Conference Room; 4:00 – 5:00 p.m.

Sunnybrook and Women's College Health Sciences Centre: Wednesdays A304 Urology Conference Room; 7-8 am

St. Michael's Hospital: Mondays - 7:30-8:30 am in room 2-Victoria-008.

The Hospital for Sick Children: Research rounds - Wednesday mornings at 7:00 am in Urology conference Room M292

Case Management - Wednesday afternoons at 5:00 pm on 6B Atrium management Teaching Rounds - Thursday mornings at 7:00 am in Urology Conference Room M292

### **Continuing Professional Development**

Dr. Michael Jewett co-chaired a conference called Informatics Solutions for Prostate Cancer, on October 25-26, 2001, sponsored by the Canadian Prostate Cancer Research Initiative. The mission of this Workshop was to inspire research and application of medical informatics, to reduce the impact of prostate cancer on the health of Canadians.

The annual Urology Update was held on November 2-3, 2001, at the Colony Hotel. It is the largest continuing education event for practicing Urologists in Canada. There were a total of 25 speakers on various topics including minimally invasive surgery, erectile dysfunction, BPH, urinary incontinence, prostate and bladder cancer. Course director was Dr. Sender Herschorn, and co-director was Dr. Laurie Klotz. The planning committee consisted of Drs. John Honey, Sidney Radomski, and Dr. John Trachtenberg. This was the ninth annual update and attracted almost 300 participants.

Dr. Laurence Klotz chaired a meeting on prostate cancer, in February of 2002, in Jamaica. It was sponsored by AstraZeneca and was primarily for community urologists.

Dr. John Trachtenberg co-chaired the 11<sup>th</sup> Annual Issues and Controversies in Prostate Cancer, in Whistler, British Columbia. It was again, well-attended and highly-successful.

## Division of Vascular Surgery

### **Dr. K. Wayne Johnston - Chair**



Dr. Yaron Sternbach was appointed to the staff at the Toronto General Hospital with specific expertise in endovascular management and thoracoabdominal aneurysm repair.

#### **Honours**

Dr. Maggisano was appointed Knight-Commander of the Equestrian Order of the Holy Sepulcher of Jerusalem in recognition of his contribution to the field of Medicine. Dr. Johnston was reappointed as the R. Fraser Elliott Chair in Vascular Surgery and continues as Editor-in-Chief of the Journal of Vascular Surgery. Dr. Wooster is president of the Canadian Society for Vascular Surgery and has been elected as a director of the American Board of Vascular Surgery and the American Association for Vascular Surgery. Dr. Lindsay is the past-President of the Peripheral Vascular Surgery Society.

#### **Research**

Dr. Rubin obtained a five-year CIHR grant and with grant support from the Canadian Heart and Stroke Foundation and PSI, he continues his study myocardial gene expression and human neutrophil function. Dr. Lindsay received a new PSI grant entitled "Ruptured aortic aneurysm: early organ prevention strategies". Dr. Johnston has a 5-year CIHR grant to support his basic research programs with Professors Richard Cobbold and Matadial Ojha (Biomedical Engineering) in Doppler ultrasound and in hemodynamics studies. Dr. Kucey, with Dr. J. Tu, is funded by a Grant from the Canadian Heart and Stroke Foundation to evaluate carotid endarterectomy in the community.

#### **Education**

Dr. Johnston received the Bruce Tovee Award for postgraduate teaching in surgery. Dr. Lossing's core lectures in vascular surgery continue to be very highly evaluated. Dr. Lindsay, with Dr. Catral, organized a major course at the Institute for Medical Sciences on the "Critical care – bench to bedside". Dr. Wooster, Chair of the Standards Committee for the Royal College, coordinated a Canadian group that included Dr. Szalay, that has developed the next version of the Vascular Self-evaluation Program (a CME program for Vascular Surgeons). He is Section Editor of Continuing Medical Education for the American Association of Vascular Surgery web-site and organized a Vascular Imaging Program in Toronto and co-organized an arterial duplex course in Alberta. Dr. Szalay is Director of Medical Education at St. Joseph's Health Sciences Center and has developed linkages with the other academic institutions. He has also contributed to the Surgical Skills Laboratory, resident lectures and the Annual Review for General Surgeons. Dr. Kucey supervised two Master's students from the Surgical Scientist Program. Dr. Johnston gave the following named lectures: Edwin J. Wylie Memorial Lecture (University of California San Francisco), Hume Lecture (Society for Clinical Vascular Surgery), and the Ellinwood Lecture (University of Massachusetts).

#### **Administration**

Dr. Maggisano is president of the medical association at Sunnybrook and Women's Hospital, member of the board of directors, and is representative to the Provost Task Force on clinical faculty.

#### **New programs**

Drs. Maggisano and Kucey have established an endovascular program for treating thoracic aneurysms. Dr. Sternbach has established a program for thoracoabdominal aneurysm repair in collaboration with the Division of Cardiac Surgery at the Toronto General Hospital. Drs. Lindsay and Sternbach have extended the program for endovascular repair of abdominal aortic aneurysm at the Toronto General Hospital. Dr. Lossing has been appointed Co-Director of the Vascular Laboratory at St. Michael's Hospital. Dr. Szalay has performed minimally invasive removal of varicose veins using a transillumination technique.

## Division of Anatomy

### **Dr. Michael J. Wiley, Chair**



In June of 2002, the Division hosted the Fifteenth Annual Slice of Life/Computers in Medical Education workshop. Patricia Stewart chaired the Local Host Centre Committee. This international meeting focused on a variety of aspects of technology-assisted multimedia in medical education, including software design and evaluation, the integration of computer-based training into medical education, new methods and techniques for supporting the teaching of medicine, as well as planning, building and/or operating computer or multimedia facilities. Kevin Millar (BMC) won the Student Software Award for “The Virtual Temporomandibular Joint”, an interactive CD that he produced under the supervision of Bernie Liebgott. This year’s conference provided a wonderful opportunity to showcase the expertise of the Divisions of Anatomy and Biomedical Communications with most of the faculty in each division contributing workshops and/or presentations.

Bernie Liebgott, Pat Stewart and Mike Wiley have begun work on an interactive website of laryngeal anatomy for medical and dental students. The project has received funding from the Faculties of Medicine and Dentistry and the Provost’s Technology Development Fund.

In collaboration with the Division of Orthopaedic Surgery, the Division of Anatomy hosted the first annual Harland-Smith Lecture in Surgical Anatomy. This lectureship was endowed by Professor Emeritus Carlton Smith in memory of his wife Rita Harland-Smith. Both Drs. Smith and Rita Harland-Smith were faculty members of the Department of Anatomy. The goal of the lectureship is to provide an opportunity to invite a prominent clinician/scientist to the University to speak on a current topic reflecting the fundamental relationships between Anatomy and Surgery. In future years, this Lecture will be given as the April Grand Round and will highlight the application of anatomical principles to current issues in the various surgical specialties. The inaugural lecture entitled “Femoroacetabular impingement and its role in initiating osteoarthritis in the non-dysplastic hip” was given by Professor Reinhold Ganz of the University of Berne, Switzerland.

### **New Faculty**

Dr. Barbara Balyk joined the Division in January this year as a Lecturer. Dr. Balyk received her M.Sc. in Anatomy and Ph.D. in Pharmacology and Toxicology from Queen’s University in Kingston and worked as a research scientist with Allelix Biopharmaceuticals before joining the Division of Anatomy. Dr. Balyk has taken over as Course Director for the anatomy courses taught to students in the Pharmacy and Physical and Health Education programs.

### **Honours and Awards**

Anne Agur received the Rising Star Award from the Department of Physical Therapy for exceptional contributions to the education of Physical Therapy students.

Dr. Ian Taylor received the E. Mary Hollington Award for teaching with distinction in the pre-clinical part of the medical curriculum.

## Division of Biomedical Communications

### *Dr. Linda Wilson-Pauwels, Chair*



We were very pleased that Prof. Nick Woolridge received tenure this year, a welcome addition to the two existing tenured faculty members in the Division of Biomedical Communications: Linda Wilson-Pauwels and Margot Mackay. There are also 11 part-time faculty members who teach in the graduate program.

This year, through funding from Bell University Laboratories, the IVIS group (Interpretive Visualization) created the site architecture and multi-media visual material for a Continuing Professional Development (CPD) Course in Sentinel Node Biopsy (SNB). Based on the results of a Needs Assessment and two Formative Web Evaluations, this site will form the template for future CPD courses. Through the testing of visual material, we hope that this site will set high standards and guidelines for internet CPD course development.

Next year, we hope to again attract grant funding for applied research in visual communication.

## Surgical Alumni Association

### *Dr. Charles H. Tator, President*



Although we did not achieve our increased target for donations this year, we collected approximately the same amount as in other years, which has generally been about \$100,000 annually, virtually all of which goes to the Surgical Scientist Program. As before, we worked in tandem with the fund-raising initiatives of some of our Divisions which were in the midst of focused campaigns. This is certainly understandable because divisional aspirations are always carefully conceived and designed to plug specific deficiencies. Nevertheless, we continue to encourage all faculty to donate to the Surgical Alumni Association, the chief beneficiary of which is the much-renowned Surgical Scientist Program. This program has continually been able to support almost every surgical resident from all Divisions, who makes a commitment to a formal period of training in research, during resident training in the Gallie Course.

This year we made the pitch that every current clinical faculty member in the Department of Surgery should contribute \$1000 annually to the Surgical Alumni Association, and expressed our appreciation to all those who went along with the concept. We also attempted to obtain increased pledges from the Alumni who are not University of Toronto faculty, and it was very gratifying to see so many alumni responding favourably. Indeed, in two of our Divisions, non University of Toronto alumni contributed more funds than current University of Toronto faculty.

Also, we wish to express our thanks to the Division Heads who played key roles in the annual campaign. They wrote the appeal letters, they maintained the mailing lists and they encouraged their faculty and alumni, to submit news items to the Surgical Alumni Newsletter.

Sincere gratitude is expressed to Dr. Robin Humphreys who has been the editor of our Newsletter for about 10 years and has completed his stewardship. Thank you "Robin" for helping to keep us informed about University of Toronto Department of Surgery activities.

Finally, many thanks to our leader, Dr. John Wedge, who continued to support the activities of the Surgical Alumni Association, and provided great support and encouragement to me in this position.

## Surgical Oncology

### **Dr. Robert Bell, Director**



During the 2001-02 academic year, the University of Toronto Surgical Oncology program advanced locally, provincially and within the North American world of academic cancer care. Locally, the University Program contributed to academic leadership, with the annual Surgical Oncology update and regular TORSO Rounds, organized at TSRCC by Dr. Andy Smith. Drs. Sharif Hanna and Jonathan Irish were appointed Head of Surgical Oncology at TSRCC and Princess Margaret Hospital respectively. New recruits included Dr. Robert Nam (Urology) at TSRCC, Dr. Joan Lipa (Reconstructive Surgery), and Dr. Peter Ferguson (Orthopaedics). The promotion of Surgical Oncologists into leadership positions continued, with Dr. Neil Fleshner, assuming the Head of Urology position at the University Health Network.

At the provincial level, Surgical Oncology was well-represented on the Cancer Services Implementation Committee, commissioned by the government, to advise, regarding integration of cancer care. Issues related to funding of cancer surgery were prominent in the committee's final report. It is possible that a system of volume/complexity funding will be adopted in Ontario and this change would facilitate the development of Surgical Oncology programs, across the province.

The combined TSRCC/Princess Margaret Hospital, General Surgery Oncology Fellowship Program, expanded to accept three fellows per year under Dr. Carol Swallow's confident leadership. The Program achieved outstanding reports in the Royal College accreditation process and was reviewed by the Society for Surgical Oncology. Although the Society for Surgical Oncology has not yet confirmed their position, it is likely that the University of Toronto Program will become the first Society for Surgical Oncology accredited fellowship, outside the United States. The other University of Toronto program with an international accredited fellowship, is the Head and Neck Surgery Oncology Fellowship.

Finally, Dr. Jay Wunder had an outstanding academic year, receiving the Gross-Rubinoff Chair in Musculoskeletal Oncology and publications in Nature Genetics, (with Sevan Hopyan and Ben Alman) and the Lancet (with Brian O'Sullivan).

# Continuing Professional Development

**Dr. Sender Herschorn, Director**



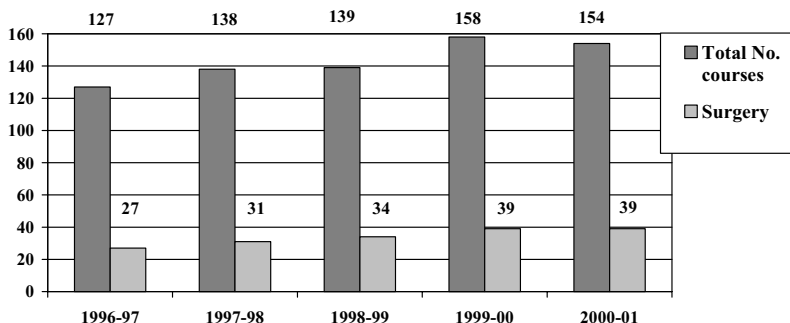
The recent changes in Royal College Specialty accreditation, has created increasing interest in Continuing Professional Development, on the part of members of the department for their own accreditation and for the creation and provision of CPD events. Both of these activities have been supported and promoted within the department.

Last year the members of the department set about complying with the Royal College of Physicians and Surgeons of Canada guidelines, for accreditation of their own CPD activities. The guidelines require tracking all of the CPD activities for each year according to the framework in Table 1. Fellows are required to earn 400 credits during five 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. The initial deadline for registering was pushed back from January 1, 2001 to January 1, 2002. Members are required to submit Continuing Professional Development (CPD) hours from both 2000 and 2001 by that date. Details of the program can be obtained from the following website: <http://rcpsc.medical.org/english/maintenance/>. In January of each year, a stratified, random sample of three (3) percent of Fellows who have completed CPD activities in the previous year, will be required to validate their self-reports of participation in CPD activities.

**Table 1: Guidelines for Accreditation of CPD Activity**

Section	Examples of CPD activities	Assignment of credits
<b>1. Accredited Group Learning Activities</b> Education sessions produced by accredited providers of CPD activities	Rounds, journal clubs Workshops, courses, conferences Distance education programs	<b>1 credit per hour</b> No maximum
<b>2. Other Learning Activities</b> Learning activities that are not necessarily affiliated with an accredited provider	Non-accredited rounds & meetings Reading journals and texts Information (MEDLINE) searches Audiotapes/videotapes Computer/Internet CME	<b>1 credit per hour</b> Maximum of 100 credits/5 years
<b>3. Accredited Self-Assessment Program</b> Programs designed to assist the specialist to identify his/her educational needs	Self-assessment program developed or sponsored by NSS, faculties and colleges Training or virtual reality simulators used for the purpose of self-assessment	<b>2 credits per hour</b> No maximum
<b>4. Structured Learning Projects</b> Learning activities are planned and the outcome is recorded and evaluated	Personal learning projects generated from participating in a CPD activity in another section Keeping a learning portfolio Traineeships, preceptored courses, master's & PhD studies	<b>1 credit per hour</b> No maximum
<b>5. Practice Review and Appraisal</b> Activities that assist specialists to review their practice	Practice audits and patient surveys Institution audits, incident reports, utilization studies Other care appraisal studies (based on the practices of peers)	<b>2 credits per hour</b> No maximum
<b>6. Educational Development, Teaching &amp; Research</b> Activities that involve setting standards for practice	Publications (e.g., manuscript reviews) Preparation of presentations, teaching, examinations (question writing) Research (e.g., grant proposals & trials)	<b>1 credit per hour</b> Maximum of 100 credits/5 years

**Figure 1. Numbers of CPD courses offered in the Faculty of Medicine**



Over the past five years, the Department of Surgery has been extremely active in providing CPD events. There has been a steady increase in courses offered by University divisions and departments from 127 to 154, an increase of 21%. In the Department the number of courses offered has gone from 27 to 39, an increase of 44% (Figure 1). The breakdown by surgical division is shown in Table 2. Data for this report were captured from the Faculty of Medicine Continuing Education database

Various divisions and individual surgeons also held other events during the year. Overall this past year there were more than 35 courses with an enrollment of 2484 participants. A total of 255 accredited hours were delivered. There were also additional collaborative events and courses between surgical division and other departments, that were designed for surgeons. The activities were primarily in lecture format but rounds, small group learning workshops with hands-on sessions, and preceptorships for surgeons from various parts of Ontario, were also held.

**Table 2: CE Events held by the Surgical Divisions**

Division	Number of CPD courses				
	1996-97	1997-98	1998-99	1999-00	2000-01
Cardiovascular	2	2	3	2	4
General	5	10	4	7	8
Neurosurgery	2	1	3	4	3
Orthopedics	5	5	5	7	2
Plastics	2	3	7	5	8
Thoracic	1	2	0	1	0
Urology	4	2	3	3	3
Vascular	3	3	5	5	9
Other	3	3	4	5	2

Consistent performance and innovations have been the hallmarks of activity. Each division has been committed to CE and a number of events have been particularly notable. General Surgery held its 41<sup>st</sup> annual update. The Aesthetic Plastic Surgery Course has been given for 32 years. Thoracic Surgery held its 19<sup>th</sup> course. The Vascular course has been given for 20 years and the Upper Extremity course for 17 years. The Pelvic and Acetabular course, not held under the auspices of the University but put on by the Division of Orthopedics, has been given for almost 15 years. The Urology Update will be 10 years old and has become the largest CE event in Canada.

Vascular Surgery has developed an accredited self-evaluation program and a vascular imaging program. General Surgery and the Division of Biomedical Communication are developing a web-based, self-directed program, in sentinel node biopsy in breast cancer, with a grant from Bell University Labs. The recently established Office of International Surgery held its first CE course focused on surgical problems in developing countries.

Acknowledgement of contributions and support for innovation and education, are done through the Faculty CE Department. The Colin Woolf awards are given annually, one for excellence in course coordination, one for excellence in teaching at Continuing Education events, and one for long-term contribution to Continuing Education activities. Members of the department who have won the award include Drs. Sender Herschorn (1998) and Bryce Taylor (1999) for long-term commitment and Dr. Andres Lozano (1999) for course coordination.

The DAVID FEAR FELLOWSHIP (up to \$3000 for the year) is also available to members of the department to promote scholarship and professional development in continuing education, by support of participation in educational courses, site visits to other university CE departments, participation in professional CE meetings, or other activities, such as developing an educational grant or innovative CE program. The FRED FALLIS AWARD (up to \$500) is available annually for an individual or group that has demonstrated innovation and excellence in the design and delivery of distance education. Other CE Research & Development Awards are also available through the Faculty CE department. (<http://www.cme.utoronto.ca/research/internal.html>)

There has been an increasing emphasis on CE and involvement by members of the department. Members are encouraged to participate actively in course design and delivery of CE and record their activity on their CV updates and teaching dossiers. Excellence in CE activity can have a positive impact on the annual performance review and in academic promotion. The Director of CPD is a member of the committee that reviews the teaching dossier of members who are being considered for academic promotion and contributes to the annual performance review.

Overall, there has been good support and rewards for CPD activities. The infrastructure for creating and supporting courses has been primarily from the Faculty CE Department. The Director is a member of the Faculty CE Committee. All courses are reviewed and approved by the Director and then accredited by the Faculty CE Department. Most courses have been financially successful and the guidelines for disbursement of funds, are well-popularized and adhered to. There are also abundant opportunities for research and innovation.

## The Hospital for Sick Children

*Dr. J. H. Wedge, R.S. McLaughlin Professor – Surgeon-in-Chief*



### **HEADS OF DIVISION**

**Dr. G. Van Arsdell – Cardiac Surgery**

**Dr. J. Langer – General Surgery**

**Dr. R. Humphreys – Neurosurgery**

**Dr. W. Cole – Orthopaedic Surgery**

**Dr. R. M. Zuker – Plastic Surgery**

**Dr. A. Khoury – Urology**

Following the successful renegotiation of our Alternate Funding Plan there have been a number of new appointments to our surgical staff this year. These are Dr. Walid Farhat – Urology, Dr. David Fisher – Plastic Surgery, Dr. Unni Narayanan – Orthopaedic Surgery, and Dr. Paul Wales – General Surgery. These individuals bring impressive academic and clinical credentials to our hospital Department. Dr. Glen Van Arsdell has been appointed Head of the Division of Cardiac Surgery to succeed Dr. Bill Williams who served with distinction in the position 13 years. A search is currently in progress to replace Dr. Ron Zuker as Head of the Division of Plastic Surgery. Ron has decided to step down after serving as Division Head for 16 years!

Our faculty continued to receive national and international recognition for their accomplishments. Dr. Ben Alman of Orthopaedics who was previously awarded the Canadian Research Chair, this year received the George Armstrong-Peters Prize for outstanding contributions to research and more recently has been awarded the Medal in Surgery at the Royal College. Dr. Jim Wright won the Premier Award of the Paediatric Orthopaedic Society of North America. This is the Arthur H. Heune Memorial Award given each year to the outstanding researcher in Paediatric Orthopaedics internationally. Dr. Wright is also this year's winner of the Lister Prize for a senior researcher in the University Department of Surgery. Last year Dr. Jim Rutka, Chair of the Division of Neurosurgery won the Lister Prize. Dr. Doug Hedden of Orthopaedics and Dr. Howard Clarke of Plastic Surgery have won PAIRO Awards for their teaching excellence.



The acuity and complexity of illness of children treated at The Hospital for Sick Children continues to rise. We have been designated as the single Paediatric Cardiac Surgical program in Ontario effective next April. The demand on our cranio-facial program has been such, that Dr. John Phillips is joining us full-time to assist with the clinical load and to ensure that this program's profile in the care of cranio-facial disorders, continues to rise internationally. Overall, this annual report provides ample evidence of the continued increase in academic productivity of our Department, which now has 30 full-time faculty in the six specialty Divisions of Surgery. For instance, total research funding according to the Departmental database is almost \$8.0 million per year.



## DIVISION OF CARDIAC SURGERY

**Dr. J.G. Coles - Associate Professor**  
**Dr. G.S. Van Arsdell - Assistant Professor**  
**Dr. W.G. Williams - Professor (Division Head)**  
**Dr. C. Wittnich - Professor**

## PUBLICATIONS

**Azakie A, McCrindle BW, Van Arsdell GS, Benson LN, Coles JG, Hamilton R, Freedom RM, Williams WG:** Extracardiac conduit versus lateral tunnel cavopulmonary connections at a single institution: Impact on outcomes. *Journal of Thoracic and Cardiovascular Surgery*: December 2001: 122 (6): pp 1219-1228.

**Azakie A, Merklinger S, Williams WG, Van Arsdell GS, Coles JG, Adatia I:** Improving outcomes of the Fontan operation in children with atrial isomerism and heterotaxy syndromes. *Annals of Thoracic Surgery*: November 2001: 72: pp 1636-1640.

**Azakie A, Merklinger S, McCrindle BW, Van Arsdell G, Benson L, Coles JG, Williams WG:** Evolving strategies and improving outcomes of the modified Norwood procedure: a 10 year single institution experience. *Annals of Thoracic Surgery*: August 2001: 72: pp 1349-53.

**Bandali K, Belanger MP, Wittnich C:** Is hyperglycemia seen in children during cardiopulmonary bypass a result of hyperoxia? *Journal of Thoracic and Cardiovascular Surgery*: July 2001: 122(4): pp 753-758.

**Belanger MP, Wittnich C, Torrance SM, Juhasz S:** Model of normothermic long-term cardiopulmonary bypass in swine weighing more than eighty kilograms. *Comparative Medicine*: April 2002: 52 (2): pp 117-121.

**Bhagawan K, Merklinger S, Van Arsdell GS, McCrindle BW, Borger MA, Caldarone CA, Coles JG, Williams WG:** Extending the usable size range of homografts in the pulmonary circulation: outcome of bicuspid homografts. *Annals of Thoracic Surgery*: March 2002: 73: pp 866-870.

**Brockhausen I, Lehotay M, Yang J-M, Wenshen Q, Young D, Lucien J, Coles JG, Paulsen H:** Glycoprotein biosynthesis in porcine aortic endothelial cells and changes in the apoptotic cell population. *Glycobiology*: January 2002: 12: pp 33-45.

**Campbell RM, Benson LN, Williams WG, Adatia I:** Chylopericardium after cardiac operations in children. *Annals of Thoracic Surgery*: July 2001: 72: pp 193-6.

**Dellgren G, Coles JG:** Pediatric heart transplantation: improving results in high-risk patients. In: *Pediatric Cardiac Surgery Annual 2001* (Coles JG, Williams WG, eds). W. B. Saunders Company, Philadelphia: 2001: pp 103-113.

**Li G, Borger MA, Williams WG, Weisel RD, Mickle DAG, Wigle ED, Li R-K:** Regional overexpression of IGF-1 and TGF-B1 in the myocardium of hypertrophic obstructive cardiomyopathic patients. *Journal of Thoracic and Cardiovascular Surgery*: April 2002: 123: pp 89-95.

**McCrindle BW, Blackstone EH, Williams WG, Sittiwangkul R, Spray TL, Azakie A, Jonas RA:** Are outcomes of surgical versus transcatheter balloon valvotomy equivalent? *Circulation*: September 2001: 104 (suppl I): pp I152-8.

**Okubo M, Benson L, Nykanen D, Azakie A, Van Arsdell G, Coles J, Williams WG:** Outcomes of intraoperative device closure of muscular ventricular septal defects. *Annals of Thoracic Surgery*: August 2001: 72: pp 416-423.

**Poirier NC, Coles JG:** Cardiac transplantation: surgical considerations. In: *Pediatric Anesthesia: Principles & Practice* (Burno Bissonnette, Bernard Dalens, eds). McGraw-Hill, USA: 2001: pp 1291-1298.

**Ratib O, Perloff JK, Williams WG:** Congenital complete absence of the pericardium. *Circulation*: September 2001: 103: pp 3154-5.

**Torrance SM, Wittnich C:** Post ischemic functional recovery in immature hearts is influenced by performance index and assessment technique. *American Journal of Physiology: Heart & Circulation*: July 2001: 281: pp H2446-2455.

**Veldtman GR, Nishimoto A, Siu S, Freeman M, Fredriksen PM, Gatzoulis MA, Williams WG, Webb GD:** The Fontan procedure in adults. *Heart*: August 2001: 86: pp 330-335.

**Wallen WJ, Belanger MP, Wittnich C:** Body weight and food intake profiles are modulated by sex hormones and tamoxifen in chronically hypertensive rats. *Journal of Nutrition*: June 2002: 132: pp 1-5.

**Wallen WJ, Belanger MP, Wittnich C:** Sex hormones and the selective estrogen receptor modulator tamoxifen modulate weekly body weights and food intakes in adolescent and adult rats. *Journal of Nutrition*: July 2001: 131: pp 2351-2357.

**Williams WG, Mullen JC:** Vascular rings. In: *Esophageal Surgery* (Pearson FG, Cooper JD, Deslauriers J, Ginsberg RJ, Hiebert CA, Patterson GA, Urshcel HC Jr, eds). Churchill Livingstone, Philadelphia: 2002: pp 215-222.

**Wittnich C, Belanger MP, Wallen JW, Torrance SM, Juhasz S:** A long-term stable normothermic cardiopulmonary bypass model in neonatal swine. *Journal of Surgical Research*: December 2001: 101: pp 176-182.

#### INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Coles JG:** University of Ottawa, Ottawa, Ontario, October 2001. AV Septal Defects.

**Coles JG:** The American Association for Thoracic Surgery, Washington, DC, May 2002. Intraoperative device use for congenital heart repairs.

**Coles JG:** Children's Hospital of Eastern Ontario, Ottawa, Ontario, October 2001. Surgery for pulmonary venous obstruction.

**Van Arsdell GS:** Cardiology Seminar Series, The Hospital for Sick Children, Toronto, Ontario, April 2002. Interventional catheterization or surgical repair for critical aortic stenosis.

**Van Arsdell GS:** Cardiology Seminar Series, Hospital for Sick Children, Toronto, Ontario, April 2002. Norwood procedure and outcome.

**Wittnich C:** Heart & Stroke Foundation of Ontario, Orillia Chapter, Orillia, Ontario, February 2002. The effect of postnatal development and gender on the heart's ability to tolerate stress.

#### RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

Chronically hypoxic newborn hearts response to stress (renewal). *Wittnich C: Heart and Stroke Foundation of Ontario* (\$266,869 1999 - 2002).

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

Integrin-linked kinase (ILK) improves cardiomyocyte survival. *Coles JG, Hannigan, Gregory: Canadian Institute of Health Research (CIHR)* (\$90,063 2002 - 2005).

Magnetic resonance imaging for ischemic heart disease. *Wright, Graham, Burns P, Coates, G, Downar E, Fort S, Hendler A, Hu B, McKerlie C, Merchant N, Mickleborough L, Wittnich C: Medical Research Council of Canada* (\$350,000 1999 - 2002).

Xenogenic Cardiomyocyte Transplantation. *Coles, JG, Hannigan, G: Heart and Stroke Foundation of Ontario* (\$65,244 2000 - 2002).

#### HONOURS RECEIVED

**Wittnich C:** Carin Wittnich Teaching Assistant of the Year Award, November 2001.

**Wittnich C:** Chair, Pediatric Society Scientific Session, Canadian Cardiovascular Society Annual Meeting, October 2001.

**Wittnich C:** Local Hero, Volunteerism, The Barrie Examiner, Barrie, Ontario, February 2002.

**Wittnich C:** Poster Judge, Society of Marine Mammalogy Biennial Meeting, November 2001.

**Wittnich C:** Valedictorian, Order of Ontario, December 2001.

## DIVISION OF GENERAL SURGERY

**Dr. S.H. Ein - Associate Professor**  
**Dr. A.H. Fecteau - Assistant Professor**  
**Dr. R.M. Filler - Professor**  
**Dr. J.T. Gerstle - Assistant Professor**  
**Dr. P.C.W. Kim - Assistant Professor**  
**Dr. J.C. Langer - Professor (Division Head)**  
**Dr. G.L. Lukacs - Assistant Professor**

## PUBLICATIONS

**Benharouga, M, Haardt M, Kartner N and Lukacs GL:** Carboxyl-terminal truncations promote proteasome-dependent degradation of mature CFTR from post-Golgi compartments. *Journal of Cell Biology*: July 2001: 153: pp 957-970.

**Ein SH, Carrera JM, Cabero L, Baraibar R:** Surgery for Necrotizing Enterocolitis in Neonatal Pathology in Proceedings of the 5th World Congress of Perinatal Medicine. *The Perinatal Medicine of the New Millennium*: September 2001: pp 979-985.

**Kolski H, Kim PCW, Vajsar J:** Video-assisted thoracoscopic thymectomy in juvenile myasthenia gravis. *Journal of Child Neurology*: August 2001: 16 (8): pp 569-573.

**Mo R, Kim JH, Zhang J, Chian C, Hui C, Kim PCW:** Anorectal malformations caused by defects in Sonic hedgehog signaling. *The American Journal of Pathology*: August 2001: 159(2): pp 765-774.

**Proctor ML, Langer JC, Gerstle JT, Kim PCW:** Is laparoscopic subtotal colectomy better than open subtotal colectomy in children? *Journal of Paediatric Surgery*: May 2002: 37(5): pp 706-708.

**Sharma, M., Benharouga, M. and Lukacs, GL:** Temperature-sensitive stability defect of the cell surface-associated F508 CFTR. *Journal of Biological Chemistry*: July 2001: 276: pp 8942-8950.

**Tartaro P, Gerstle JT:** Case Report: Immature Teratoma. *University of Toronto Medical Journal*: March 2001: 78: pp 153-155.

**The SPLIT Research Group:** Studies of pediatric liver transplantation (SPLIT). *Transplantation*: August 2001: 72(3): pp 463-476.

**Traubici J, Daneman A, Wales P, Gibbs D, Fecteau A, Kim P:** Mesenteric lymphangioma malformation associated with small bowel volvulus - two cases and a review of the literature. *Pediatric Radiology*: March 2002: 32: pp 362-365.

**Wei H, Howard, M. and Lukacs GL:** Endocytosis Sorting signals in carboxy terminal tail of the cystic fibrosis transmembrane conductance regulator (CFTR). *Biochemical Journal*: July 2001: 354: pp 561-572.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Ein SH:** American Pediatric Surgical Association, Phoenix, Arizona, May 2002. 33rd Annual Meeting.

**Ein SH:** Pacific Association of Pediatric Surgeons, La Jolla, California, May 2002. 35th Annual Meeting.

**Ein SH:** British Association of Pediatric Surgeons, London, England, July 2001. Dorothy S. Fraser Lecture.

**Ein SH:** World Congress Perinatal Medicine, Barcelona, Spain, September 2001. Preventing and Treating Necrotizing Enterocolitis.

**Ein SH:** World Congress of Perinatal Medicine, Barcelona, Spain, September 2001. Surgery for Necrotizing Enterocolitis in Neonatal Pathology.

**Ein SH:** World Congress of Perinatal Medicine, Barcelona, Spain, September 2001. Surgical procedures, postoperative management and complications of necrotizing enterocolitis.

**Kim PCW:** B. C. Children's Hospital, Vancouver, British Columbia, April 2002. Fetal/Maternal Symposium.

**Lukacs GL:** European CF Consensus Conference, Lisbon, August 2001. April - Novel approaches to monitor cell surface delivery of CFTR.

**Lukacs GL:** Cystic Fibrosis Conference, Williamsburg, Virginia, U.S.A., August 2001. June - Endocytosis signals in CFTR, Folding of CFTR in vivo, The role of the C-terminus of CFTR.

**Lukacs GL:** Queens Univ., August 2001. March - Sorting determinants of CFTR at the ER and the cell surface.

**Lukacs GL:** August 2001. March - West Coast Salt and Water Club, Keynote speaker, declined.

**Lukacs GL:** North American Cystic Fibrosis Conference, Orlando, FL, October 2001. October - Structure-function of CFTR workshop, organizer and co-chair.

## **RESEARCH AND INVESTIGATIONS**

*Senior Investigator's Name Appears in Italics*

Bone mineral density after pediatric liver transplant. *Ng V, Fecteau A, Hawkel G, MacArthurs C: Hospital for Sick Children Seed Grant (\$32,232 2001 - 2003).*

Determinants and Modification of CFTR Expression at the Cell Surface. *Dr. J. Rommens/L-T Tsui, Dr. G. Lukacs: National Institute of Health, NIDDK (\$236,500 1999 - 2004).*

Enhancement of nuclear trafficking to increase lung epithelial CFTR expression. *Drs. H. O'Brodovich and G. Downey, Dr. G. Lukacs: Canadian Cystic Fibrosis Foundation (\$310,000 1996 - 2001).*

Inflammatory mediated damage to fetal bowel in gastroschisis. *Langer JC, Allen VM, Ryan G, Moore A: Physician Services Incorporated (\$50,708 2001 - 2003).*

Inflammatory mediated damage to fetal bowel in gastroschisis: A multicentre, prospective study. *Allen V, Ryan G, Moore A, Gerstle JT, Kingdom J, Langer JC, Challis J: Physician's Services Incorporated Foundation (\$97,500 2000 - 2002).*

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).*

Molecular mechanism of CFTR endocytosis and recycling. *Dr. Gergely Lukacs: Medical Research Council of Canada (\$311,280 1998 - 2003).*

Peer Support for Adolescents with an Ostomy or J-Pouch and Their Parents. *David Nicholas, Ted Gerstle, Sylvia Swan, Theresa Allan, Anne-Marie Griffiths: Convatec (Bristol-Myers Squibb Canada, Inc.) (\$2,000 2001 - 2002).*

Sequencing of VACTERL syndrome. *Kim PCW: The Josie Walther Award (\$15,000 2002 - 2003).*

The hemodynamic effects of carbon dioxide pneumoperitoneum in infants. *Kim PCW / Langer JC, Wales PW, Smallhorn JF, Bissonnette B: Society of American Gastrointestinal Endoscopic Surgeons (\$15,000 2001 - 2002).*

## **HONOURS RECEIVED**

**Ein SH:** Chief Residents "Best Teacher Award", Division of General Surgery - The Hospital for Sick Children, June 2002.

**Ein SH:** Evaluation of Pediatric Surgeon suitability for joint appointment to Senior rank, Albert Einstein College of Medicine - Bronx, New York, January 2002.

**Kim PCW:** Wei Cheng: Clinician Scientist Fellowship 2002, The Research Institute, The Hospital for Sick Children, March 2002.

**Kim PCW:** Wei Cheng: RESTRACOMP Award 2001, December 2001.

**DIVISION OF NEUROSURGERY****Dr. M. Dennis - Associate Professor****Dr. P.B. Dirks - Assistant Professor****Dr. J.M. Drake - Professor****Dr. R.P. Humphreys - Professor (Division Head)****Dr. J.T. Rutka - Professor****PUBLICATIONS**

**Akiyama Y, Jung S, Salhia B, Lee S, Hubbard S, Taylor M, Mainprize T, Akaishi K, Van Furth W, Rutka J:** Hyaluronate receptors mediating glioma cell migration and proliferation. *Journal of Neuro-Oncology*: July 2001: 53: pp 2 115-127.

**Carlotti A, Bohn D, Rutka J, Singh S, Berry D, Sharman A, Cusimano M, Halperin M:** A method for the estimation of urinary electrolyte in patients at risk for cerebral salt wasting. *Journal of Neurosurgery*: September 2001: 95: pp 420-424.

**Carlotti CG, Salhia B, Weitzman S, Greenberg M, Dirks PB, Becker LE, Rutka JT:** Evaluation of proliferative index and cell cycle protein expression in choroid plexus tumors in children. *Acta Neuropathologica*: November 2001: 103: pp 1-10.

**Chitoku S, Otsubo H, Harada Y, Jay V, Rutka J, Weiss S, Abdoll M, Snead C:** Extraoperative cortical stimulation of motor function in children. *Pediatric Neurology*: July 2001: 24: pp 344-350.

**Dirks PB:** Glioma Migration: Clues from the biology of neural progenitor cells and embryonic CNS cell migration. *Journal of Neuro-Oncology*: October 2001: 53: pp 203-212.

**Drake JM, Kestle JRW, Tuli S:** Cerebrospinal fluid shunt technology. In: *Clinical Neurosurgery - Volume 47* (Howard M, ed). Lippincott Williams & Wilkins, Baltimore: 2001: 47: pp 336-345.

**Hoffman HJ, Humphreys RP:** Optic nerve glioma. In: *Tumors of the Pediatric Central Nervous System* (Keating RF, Goodrich JT, Packer RJ, eds). Thieme, New York: 2001: pp 302-307.

**Humphreys RP:** Foreword. In: *Tumors of the Pediatric Central Nervous System* (Keating RF, Goodrich, JT, Packer RJ, eds). Thieme, New York: 2001: pp xiii-xiv.

**Humphreys RP:** In Memorium. Edward Bruce Hendrick. January 20, 1924 - August 17, 2001. *The Canadian Journal of Neurological Sciences*: February 2002: 29: pp 100-101.

**Kulkarni AV, Drake JM, Rabin D, Dirks PB, Humphreys RP, Rutka JT:** Measuring the health status outcome of children with hydrocephalus. *Canadian Journal of Neurological Sciences*: May 2002: 29(1): pp 18.

**Lo P, Drake JM:** Shunt malfunctions. *Clinical Neurosurgery - Neurosurgery Clinic of North America*: October 2001: 36, No.4: pp 12:695-701.

**Lo PA, Drake JM, Hedden D, Narotam P, Dirks PB:** Avulsion Transverse Ligament Injuries in Children: Successful Treatment with Non-Operative Management. *Journal of Neurosurgery (Spine)*: April 2002: 96: pp 338-342.

**McLaughlin JF, et al:** Selective dorsal rhizotomy: meta analysis of three randomized clinical trials. *Developmental Medicine and Child Neurology*: January 2002: 44: pp 17-25.

**Otsubo H, Ochi A, Elliott, Chuang S, Rutka JT, Jay V, Aung M, Sobel DF, Snead O Carter III:** MEG Predicts Epileptic Zone in Lesional Extrahippocampal Epilepsy: 12 Pediatric Surgery Cases. *Epilepsia*: August 2001: 42-(12): pp 1523-1530.

**Otsubo H, Chitoku S, Ochi A, Jay V, Rutka J.T, Smith M.L, Elliott I.M, Snead O.C:** Malignant rolandic-sylvian epilepsy in children, Diagnosis, treatment, and outcomes. *Neurology*: August 2001: 57: pp 590-596.

**Otsubo H, Shirasawa A, Chitoku S, Rutka J, Wilson S, Snead C:** Computerized brain-surface voltage topographic mapping for localization of intracranial spikes from electrocorticography. *Journal of Neurosurgery*: June 2001: 94: pp 1005-1009.

**Rutka JT:** The leading edge of glioma biology: new concepts in glioma proteases and invasion. *Journal of Neuro-Oncology*: July 2001: 53: pp 85.

**Sakai K, Kurimoto M, Tsugu A, Hubbard SL, Trimble WS, Rutka JT:** Expression of Nedd5, a mammalian septin, in human brain tumors. *Journal of Neuro-Oncology*: May 2002: 57: pp 169-177.

**Salhia B, Rutka JT, Lingwood C, Nutikka A, Van Furth W:** The Treatment of Malignant Meningioma with Verotoxin. *Neoplasia*: March 2002: 4-(3): pp 1-8.

**Suhardja A, Kovacs K, Rutka J:** Role of transcription factors in the pathogenesis of pituitary adenomas: a review. *Journal of Neuro-Oncology*: December 2001: 55-3: pp 185-193.

**Taylor M, Liu L, Raffel C, Hui C, Mainprize T, Zhang X, Agatep R, Chiappa S, Gao L, Lowrance A, Hao A, Goldstein A, Stavrou T, Scherer S, Dura W, Wainwright B, Squire J, Rutka JT, Hoff D:** Mutations in SUFU predispose to medulloblastoma. *Nature Genetics*: June 2002: 916: pp 1-5.

**Taylor M, Mainprize T, Squire J, Rutka, J:** Molecular genetics of pineal region neoplasms. *Journal of Neuro-Oncology*: November 2001: 54: pp 219-238.

**Taylor MD, Mainprize TG, Rutka JT, Becker L, Bayani J, Drake JM:** Medulloblastoma in a child with Rubenstein-Taybi Syndrome: Case report and review of the literature. *Pediatric Neurosurgery*: November 2001: 35(5): pp 235-238.

**Tsai EC, Santoreneos S, Rutka JT:** Tumors of the skull base in children: review of tumor types and management strategies. *Neurosurgery. Focus*: May 2002: 12-(5): pp 1-13.

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

**Dirks PB:** Congress of Neurological Surgeons, San Diego, CA, October 2001. Diagnosis of Non Accidental Head Injury in Infants.

**Dirks PB:** Japanese Society of Pediatric Neurosurgery, 30th Annual Meeting, Asahikawa, Japan, June 2002. Is a neural stem cell transformed into a brain tumor?

**Drake JM:** Japanese Society for Pediatric Neurosurgery, Shizuoka, Japan, September 2001. (1) Pediatric shunt treatment - risk management, (2) Endoscopic third ventriculostomy - assessing efficacy, (3) Selective dorsal rhizotomy - the rise and fall.

**Drake JM:** Korean Neurosurgical Society Annual Spring Meeting, Seoul, Korea, April 2002. (1) Prospective studies in pediatric CSF shunt failure - guides to risk reduction, (2) Endoscopic third ventriculostomy - assessing efficacy.

**Drake JM:** Congress of Neurological Surgeons, San Diego, California, September 2001. (1) Shunt surgery: managing the difficult shunt, (2) Medulloblastoma in a patient with Rubenstein syndrome, (3) Post-biopsy involution of pediatric exophytic brain stem tumors, (4) The endoscopic shunt insertion trial: primary results.

**Drake JM:** Hydrocephalus Association: National Conference on Hydrocephalus for Families and Professionals, Chicago, Illinois, May 2002. (1) The diagnosis and treatment of hydrocephalus in infants and children, (2) Shunt malfunctions, (3) Complex hydrocephalus, including Dandy Walker malformation and multiloculated hydrocephalus.

**Drake JM:** European Society of Pediatric Neurosurgeons Meeting, Kiruna, Sweden, June 2002. Hydrocephalus Session: (1) CSF shunts in the new millennium: trials and tribulations, (2) Treatment of hydrocephalus and choroid plexus tumors using a choroid specific immunotoxin - an in vitro study.

**Humphreys RP:** George E. Perret Visiting Professor, Department of Neurosurgery, University of Iowa., Iowa City, Iowa., September 2001. (1) Contemporary issues with spinal dysraphism. (2) Lessons learned from 30 years of craniofacial surgery.

**Humphreys RP:** Visiting Professor. Department of Surgery, University of Alabama., Birmingham, AL, April 2002. (1) The significance of cutaneous signatures of occult spinal dysraphism. (2) Lessons learned from 30 years of craniofacial surgery.

**Humphreys RP:** Visiting Professor. Department of Surgery, Stanford University, Stanford, California, October 2001. Controversial issues in the management of pediatric brain tumors.

**Humphreys RP:** Canadian Pediatric Neurosurgery Group Meeting., Bromont, QC, February 2002. Resource issues in Canadian pediatric neurosurgery.

**Humphreys RP:** Senior Members, the American Society of Pediatric Neurosurgeons, Chapel Hill, NC, April 2002. The delivery of health care in Canada.

**Humphreys RP:** New York Presbyterian Hospital and Cornell University, New York, New York., November 2001. Visiting Professor.

**Rutka JT:** Henry Ford Hospital, Hermelin Brain Tumor Center, Detroit. MI, December 2001. Classification and management of brainstem tumors in children.

**Rutka JT:** CNS 51st Annual Meeting, San Diego, California, September 2001. Complementary deoxyribonucleic acid microarray analysis of pediatric medulloblastoma.

**Rutka JT:** 37th Meeting of the Canadian Congress of Neurological Sciences, Vancouver, BC, June 2002. Complications of invasive subdural grid monitoring in children undergoing epilepsy surgery.

**Rutka JT:** Richard Lende Winter Neurosurgery Conference, Salt Lake City, Utah, February 2002. Current Classification and Management of Brainstem Tumors in Children(Kasden Lectureship).

**Rutka JT:** Seoul National University, Seoul, Korea, November 2001. Developmental signaling pathways in human medulloblastoma.

**Rutka JT:** University of Pittsburgh School of Medicine, Pittsburgh, PA, April 2002. Epilepsy Surgery in Children-Current Practice at the Hospital for Sick Children.

**Rutka JT:** Annual meeting of the American Academy of Neurological Surgery, Palm Beach, Florida, November 2001. Germline and Somatic Mutations of Suppressor of fused predispose to medulloblastoma through failure to suppress sonic hedgehog and WNT signaling.

**Rutka JT:** 37th Meeting of the Canadian Congress of Neurological Sciences, Vancouver, BC, June 2002. Measuring the health status outcome of children with hydrocephalus.

**Rutka JT:** University of Wisconsin, Madison, Wisconsin, February 2002. Medulloblastoma from a difficult past to a promising future.

**Rutka JT:** University of Pittsburgh School of Medicine, Pittsburgh, PA, April 2002. Molecular Basis of Neurosurgical Disease.

**Rutka JT:** Seoul National University, Seoul, Korea, November 2001. Multiple subpial transections.

**Rutka JT:** Little People of Ontario, 2002 Spring Medical Conference, Guelph, Ontario, April 2002. Neurosurgical Implications of Achondroplasia.

**Rutka JT:** Seoul National University, Seoul, Korea, November 2001. New models for studying the pathobiology of human brain tumors.

**Rutka JT:** Richard Lende Winter Neurosurgery Conference, Salt Lake City, Utah, February 2002. New Techniques in the Surgery of Lesional and Non-Lesional Epilepsy.

**Rutka JT:** CNS 51st Annual Meeting, San Diego, California, September 2001. Persistent seizure disorder secondary to residual/recurrent dysembryoplastic neuroepithelial tumors.

**Rutka JT:** CNS 51st Annual Meeting, San Diego, California, September 2001. Posterior fossa and brainstem tumors in children: Approaches and complication avoidance.

**Rutka JT:** Taegu St. Mary Hospital, Taegu, Korea, November 2001. Prospects for the future of neuro-oncology in the new millennium.

**Rutka JT:** Seoul National University, Seoul, Korea, November 2001. Recent advances and future direction of brain tumor research.

**Rutka JT:** The 4th International Congress on Meningiomas and 4th International Congress on Cerebral Venous System combined with Annual Meeting of the Turkish Neurosurgical Society, Istanbul, Turkey, June 2002. Recent advances in molecular biology of meningiomas.

**Rutka JT:** Canadian Society of Plastic Surgeons, Saint John, New Brunswick, June 2002. Surgical management of unicoronal synostosis (UCS) in infancy.

**Rutka JT:** Richard Lende Winter Neurosurgery Conference, Salt Lake City, Utah, February 2002. The Harold Hoffman Slide Collection: Images from 35 years of pediatric neurosurgical experience.

**Rutka JT:** 2002 AANS Annual Meeting, Chicago, IL, April 2002. Update on Tumors for the General Neurosurgeon.

**Rutka JT:** Yale University, New Haven, Connecticut, December 2001. Voynick Lecture.

## **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. *Venita Jay, Peter Dirks, Larry Becker: 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).*

Cleaning Ventricular Catheters with Ultrasonic Cavitation. *Dr. J.M. Drake, Dr. Howard Ginsberg, Post-Doctoral Research Award: Medical Research Council of Canada (\$57,090 1999 - 2002).*

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

Cytoskeletal: matrix interactions regulating astrocytoma tumorigenicity. *Rutka J, Becker L: Canadian Institute of Health Research (\$300,000 2001 - 2004).*

Determination of brain tumor phenotype by oncogene expression in CNS stem cells. *Dirks PB: National Cancer Institute of Canada (\$245,529 2000 - 2003).*

Development of a Disease-Specific Health Status Outcome Measure for Children with Hydrocephalus - Resident Grant. *Dr. J.M. Drake, Dr. Abhaya Kulkarni: The Physicians' Services Inc. (\$15,000 2001 - 2002).*

Intermediate filament-induced alterations in astrocytoma morphology. *Rutka JT, Dirks PB, Becker LE: Medical Research Council of Canada (\$72,345 1998 - 2001).*

Intermediate filament-induced alterations in astrocytoma tumorigenicity and morphology. *Rutka JT, Dirks PB, Becker LE: Medical Research Council of Canada (\$216,000 1998 - 2001).*

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).

Novel pharmacological treatment of murine medulloblastoma. *Rutka J, Mainprize T: Brainchild* (\$20,000 2001 - 2002).

Role of Gli transcription factors in the pathogenesis of medulloblastoma. *Taylor M, Rutka J; Brainchild* (\$50,750 2001 - 2003).

Role of hedgehog signaling in brain and cartilage neoplasms. *Alman B, Rutka JT, Hui CC: National Cancer Institute of Canada/Terry Fox New Frontiers Initiative* (\$570,000 1999 - 2002).

Shared flow cytometry facility. *Guidos C, Rutka JT, Buchwald M, Chamberlain J, Cohen A, Danska J, Dick J, Grinstein S: Medical Research Council of Canada* (\$50,000 1998 - 2002).

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: Katie's Kids for the Cure ("Foundation")* (\$150,000 2002 - 2004).

Spina bifida: Cognitive and neurobiological variability. *Dennis M, Fletcher JM, Barnes MA, Blanton SH, Blaser S, Brandt ME, Buncic JR, Carlson C, Drake JM, Francis DJ, Hannay HJ, Hetherington R, Inwood S, Kramer LA, Landry SH, MacGregor D, Northrup HL, Scherer S, Townsend I: National Institutes of Health* (\$1,284,320 1998 - 2003).

Spina Bifida: Cognitive and neurobiological variability in Dandy Walker and aqueduct stenosis. *Fletcher JM, Dennis M, Barnes MA, Blanton SH, Blaser S, Brandt ME, Buncic JR, Carlson C, Drake JM, Francis DJ, Hannay HJ, Hetherington R, Inwood S, Kramer LA, Landry SH, MacGregor D, Northrup HL, Scherer S, Townsend I: National Institutes of Health/National Institute of Child Health and Human Development* (\$152,487 2000 - 2002).

The role of human suppressor of fused in medulloblastoma. *Rutka JT, Hogg D: Canadian Cancer Society* (\$150,000 2002 - 2004).

Treatment of astrocytomas with verotoxin. *Mainprize T, Rutka JT: Research Fellowship Award National Cancer Institute of Canada* (\$130,000 1999 - 2002).

## HONOURS RECEIVED

**Humphreys RP:** Inaugural Inductee, Wall of Fame. 75th Anniversary Reunion, Runnymede Collegiate Institute, Toronto, Ontario., May 2002.

**Rutka JT:** Lister Award, Department of Surgery, University of Toronto, July 2001.

## 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. U.G. Narayanan - Assistant Professor**  
**Dr. M.C. Rang - Professor**  
**Dr. R.B. Salter - Professor**  
**Dr. J.H. Wedge - Professor**  
**Dr. J.G. Wright - Professor**

## PUBLICATIONS

**Alman BA:** Genetic Disorders and Skeletal Dysplasias. In: Orthopaedic Knowledge Update (American Academy of Orthopaedic Surgeons, ed): 2002:

**Alman BA, Goldberg MJ:** Genetics. In: Orthopaedics (Drennan, ed). Lippincott,: 2001: pp 1246-1256.

**Beaton DE, Bombardier C, Katz J, Wright JG:** A taxonomy for responsiveness. Journal of Clinical Epidemiology: June 2002: 54: pp 1204-1217.

**Boutis,K, Komar, L, Jaramillo, D, Babyn, P, Alman, B, Snyder, B, Mandl, K, Schuh, S:** Sensitivity of a clinical examination of predict need for radiography in children with ankle injuries: a prospective study. Lancet: December 2001: 358(9299): pp 2118-21.

**Cheon SS, Cheah AY, Turley S, Nadesan P, Poon R, Clevers H, Alman BA:** Beta-Catenin Stabilization dysregulates mesenchymal cell proliferation, motility, and invasiveness and fibromatosis and hyperplastic cutaneous wounds. PNAS (Proc Natl Acad Sci USA): May 2002: 10: pp 6973-8.

**Cole WG:** Bone, cartilage and fibrous tissue disorders. In: Children's Orthopaedics and Fractures, 2nd edition (Benson MKD, Fixsen JA, Macnicol MF, Parsch K, eds). Churchill Livingstone, London: 2002: pp 67-92.

**Davidson AJ, Eyres RL,, Cole WG:** A comparison of prilocaine and lidocaine for intravenous regional anaesthesia for forearm fracture reduction in children. Paediatric Anaesthesia: February 2002: 12: pp 146-150.

**Dormans JP, Spiegel D, Meyer J, Asada N, Alman BA, Pill SG, Himmelstein B, Womer R:** Fibromatoses in childhood: the desmoid/fibromatosis complex. Med, Pediatr. Oncol: August 2001: 37: pp 126-31.

**Halman SI, Chipman M, Parkin PC, Wright JG:** Are seat restraints effective in school-aged children? British Medical Journal: May 2002: 324: pp 1123-.

**Hopyan S, Gokgoz N, Poon R, Cole WG, Bell RS, Andrulis IL, Wunder J, Alman BA:** A mutant PTH/PTHrP type 1 receptor in enchondromatosis. Nature Genetics: March 2002: 30: pp 1-5.

**Howard A, Moses McKeag A, Rothman L, Reid D, Letts M, Comeau J, Monk B, German A:** Ejections from Child Restraint Systems in Rollovers: Observations from Real-World Collisions. Proceedings of Canadian Multidisciplinary Road Safety Conference XII: 2001:

**Hunsaker FG, Cioffi DA, Amadio PC, Wright JG, Caughlin B:** The American Academy of Orthopaedic Surgeons outcomes instrument: normative values from the general population. Journal of Bone and Joint Surgery (American): February 2002: 84: pp 8-20.

**Klebuc M, Burrow S, Organek A, Cole W, Zuker R. 1: Klebuc M, Burrow S, Organek A, Cole W, Zuker R:** Osteochondroma as a causal agent in popliteal artery pseudoaneurysms: case report and literature review. Journal of Reconstructive Microsurgery: October 2001: 17: pp 475-480.

**Lapner PC, McKay M, Howard AW, Gardner B, German A, Letts M:** Children in crashes: mechanisms of injury and restraint systems. Canadian Journal of Surgery: December 2001: 44:6: pp 445-449.

**Leng Pau H, Lerman J, Crawford MW, Wright JG:** An evaluation of the quality of clinical trials in anesthesia. *Anaesthesia*: October 2001: 95(5): pp 1068-73.

**Lieberman JR, Hawker GA, Wright JG:** Hip function in patients over fifty-five years of age: Population reference values. *Journal of Arthroplasty*: October 2001: 16(7): pp 901-4.

**Lo PA, Drake JM, Hedden DM, Narotam P, Dirks PB:** Avulsion transverse ligament injuries in children: successful treatment with nonoperative management. *Journal of Neurosurgery*: April 2002: 96: pp 338-342.

**Meng X, Poon R, Zhang X, Cheah A, Ding Q, Hui C, Alman BA:** Suppressor of fused negatively regulates Beta-catenin signaling. *Journal of Biological Chemistry*: September 2001: 276: pp 40113-9.

**Narayanan UG, Howard A:** A systematic review of Selective Dorsal Rhizotomy in the management of spastic cerebral palsy: a meta-analysis. *Protocol*: January 2002:

**Narayanan UG, Wright JG:** Evidence-based medicine: A prescription to change the culture of pediatric orthopaedics (Editorial). *Journal of Pediatric Orthopaedics*: May 2002: 22(3): pp 277-278.

**Narayanan UG, Wright JG:** Levels of evidence. *Bulletin of the Pediatric Orthopaedic Society of North America*: September 2001:

**Norman-Taylor FH, Hashemi-Nejad A, Gillingham BL, Stevens D, Cole WG:** Risk of refracture through unicameral bone cysts of the proximal femur. *Journal of Pediatric Orthopaedics*: March 2002: 22: pp 249-254.

**Pencharz J, Young NL, Owen JL, Wright JG:** A comparison of three outcomes instruments in children. *Journal of Pediatric Orthopaedics*: August 2001: 21(4): pp 425-31.

**Tejpar S, Li C, Yu C, Poon R, Denys H, Sciort R, Cutsem EV, Cassiman JJ, Alman BA:** Tcf-3 expression and beta-catenin mediated transcriptional activation in aggressive fibromatosis (desmoid tumour). *British Journal of Cancer*: July 2001: 85(1): pp 98-101.

**Temple LKF, McLeod RS, Gallinger S, Wright JG:** Defining disease in the genomic era. *Science*: August 2001: 293: pp 807-8.

**Thomas DP, Howard AW, Cole WG, Hedden DM:** Three weeks of Kirschner wire fixation for displaced lateral condylar fractures of the humerus in children. *Journal of Pediatric Orthopaedics*: September 2001: 21: pp 565-569.

**Wedge JH, Bogoch ER:** The surgical management of juvenile arthritis. In: *Oxford Textbook of Orthopedics and Trauma* (Buckwalter J, Bulstrode C, Carr A, Fairbank J, Marsh L, Wilson-MacDonald J., eds). Oxford University Press, London, United Kingdom: 2002: pp 2433-46.

**Wedge JH, Daniels TR, Alman BA:** Congenital clubfoot. *Current Paediatrics*: October 2001: 11(5): pp 332-340.

**Wedge JH, Hamilton SM, Taylor BR:** Residency education in surgery. *Canadian Journal of Surgery*: October 2001: 44: pp 327-329.

**Yen D, Kuriachan V, Yach J, Howard A:** Long term outcome of anterior decompression and spinal fixation using the Wellesley Wedge for thoracic and lumbar spinal metastasis. *Journal of Neurosurgery: Spine*: January 2002: 96: pp 6-9.

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

**Alman BA:** Brown University Department of Orthopaedics, Providence, Rhode Island, April 2002. Developmental Biology in Orthopaedics.

**Alman BA:** NIH- NIAMS, Bethesda, Maryland, November 2001. Developmental Pathways in Musculoskeletal Neoplasia.

**Alman BA:** American Academy of Orthopaedic Surgeons - POSNA Speciality Day, Dallas, Texas, February 2002. Growth Factors: How they will change orthopaedics in the next five years.

**Alman BA:** Musculoskeletal Tumour Society Meeting, Toronto, Ontario, April 2002. Hedgehog signaling in enchondromatosis: Implications for a novel therapy for chondrosarcoma.

**Alman BA:** The Endocrine Society, San Francisco, California, June 2002. Hot topics in Endocrinology: A mutant PTHRI in enchondromatosis.

**Alman BA:** Combined Meeting of the American Orthopaedic Association and the Canadian Orthopaedic Association, Victoria, BC, June 2002. How will molecular biology change orthopaedic practice in 2010.

**Alman BA:** NIH-AAOS Symposium in Molecular Biology in Orthopaedics, Scottsdale, Arizona, September 2001. Oncogenes.

**Alman BA:** The International Cartilage Repair Society, Toronto, Ontario, June 2002. Signaling in chondrocytes: What pathology teaches us.

**Alman BA:** Queen's University, Cancer Research Institute, Kingston, Ontario, April 2002. Wingless, Hedgehog, fibromatosis and enchondromas.

**Cole WG:** Association of Children's Prosthetic-Orthotics Clinics, Toronto, Ontario, April 2002. Advances in surgical management of children with limb deficiencies.

**Cole WG:** National Institute of Child Health and Human Development, National Institutes of Health, Osteogenesis Imperfecta Foundation and the Office of Rare Diseases, National Institutes of Health, Chicago, Illinois, December 2001. Contributor to 'New Research Strategies in Osteogenesis Imperfecta'.

**Cole WG:** 7th International Conference on the Chemistry and Biology of Mineralized Tissues, Jacksonville, Florida, November 2001. Inaugural Eve and Arthur Veis Lecture, Skeletal dysplasias reveal genes of importance in skeletal development and structure.

**Cole WG:** Pediatric Orthopaedic Society of North America, Salt Lake City, Utah, May 2002. Moderator, Research Session, Annual Scientific Meeting.

**Cole WG:** 2001 American Academy of Orthopaedic Surgeons & National Institutes of Health Workshop: Molecular Biology in Orthopaedics, Scottsdale, Arizona, September 2001. Research priorities and future directions in genetic diseases of the skeleton.

**Cole WG:** 2001 American Academy of Orthopaedic Surgeons & National Institutes of Health Workshop - Molecular Biology in Orthopaedics, Scottsdale, Arizona, September 2001. Skeletal dysplasias.

**Cole WG:** 48th Annual Meeting of the Orthopaedic Research Society, Dallas, Texas, February 2002. Skeletal Dysplasias in Workshop on Genetics of Orthopaedic Disorders.

**Cole WG:** Divisions of Orthopaedics, Henry Ford Hospital (Case Western Reserve University) and the Detroit Children's Hospital (Wayne State University), Detroit, Michigan, February 2002. Visiting Professor; Combined Orthopaedic Grand Rounds "Spectrum of osteomyelitis in children"; Bone and Joint Center Research Seminar "Skeletal Dysplasias Reveal Genes of Importance in Skeletal Development".

**Hedden DM:** AO ASIF Spine Operating Room Personnel Course, Burnaby, British Columbia, October 2001. Moderator - USS Deformity Module.

- Hedden DM:** Canadian Spine Society Annual Meeting, Vernon, British Columbia, March 2002. Quality of Life in Adolescent Idiopathic Scoliosis.
- Hedden DM:** Paediatric Orthopaedic Society of North America, Annual Meeting, Salt Lake City, Utah, May 2002. Quality of Life in Adolescent Idiopathic Scoliosis.
- Hedden DM:** Alpha Group, Annual Meeting, Wisconsin, February 2002. Resident Evaluation - The Royal College Fellowship Examinations.
- Hedden DM:** Alpha Group, Annual Meeting, St., Wisconsin, February 2002. Scoliosis - When is Anterior Surgery Too Much?
- Hedden DM:** Ste. Justine Paediatric Orthopaedic Review Course, Montreal, Quebec, April 2002. Spondylolisthesis: Update.
- Hedden DM:** Ste. Justine Paediatric Orthopaedic Review Course, Montreal, Quebec, April 2002. The Management of Paralytic Scoliosis.
- Hedden DM:** Canadian Spine Society Annual Meeting, Vernon, British Columbia, March 2002. The Management of the Immature Spine.
- Hedden DM:** AO ASIF Spine Operating Room Personnel Course, Burnaby, British Columbia, October 2001. Thoracolumbar Deformity: Kyphosis/Scoliosis.
- Hedden DM:** Ste. Justine Paediatric Orthopaedic Review Course, Montreal, Quebec, April 2002. Thoracolumbar Injuries in Children.
- Howard A:** Safe Kids Week - National Media Launch (broadcast on national and local networks), Toronto, Ontario, June 2002. "Kids on Wheels".
- Howard A:** CFRB - The Mott's Talk Radio Show, Toronto, Ontario, June 2002. Helmet Safety.
- Howard A:** CKNW AM 980 - Talk Radio with Host Terry Moore, Vancouver, British Columbia, June 2002. Helmet Safety.
- Howard A:** CBC National News, Toronto, Ontario, June 2002. Scooter and Bicycle Safety.
- Salter RB:** St. Justine Paediatric Orthopaedic Review Course, Montreal, Quebec, April 2002. (1)Injuries involving the epiphyseal plate, (2)Legg perthes' disease-basic research and its clinical applications.
- Salter RB:** University of Pittsburgh, Pittsburgh, Pennsylvania, November 2001. The biological concept of continuous passive motion, from origination to research to clinical application.
- Salter RB:** Visiting Professor, Memorial University, St. John's, Newfoundland, July 2001. The long term (15 to 30) results of innominate osteotomy in the treatment of congenital dislocation and subluxation of the hip in children aged 1.5 to 4 years.
- Salter RB:** SICOT/SIROT(International Society of Orthopaedic Surgery and Traumatology/International Society of Orthopaedic Research and Traumatology), Paris, France, August 2001. The role of continuous passive motion (CPM) in the postoperative management of arthelolysis for the persistent stiff elbow.
- Salter RB:** Jefferson University, Philadelphia, Pennsylvania, March 2002. The role of continuous passive motion (CPM) on the prevention of joint damage in an antigen-Induced model of inflammatory arthritis: An experimental investigation in the rabbit.
- Wedge JH:** American Academy of Orthopaedic Surgeons, Dallas, Texas, February 2002. Rotational pelvic osteotomies for symptomatic dysplasia and Perthes' in adults: Indications and surgical techniques.
- Wright JG:** Orthopaedic Advisory Group. Shriners Hospitals for Children, Tampa, Florida, May 2002. A practical approach to outcomes assessment.

**Wright JG:** American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, Texas, February 2002. Area variation and unmet need for orthopaedic surgical procedures.

**Wright JG:** Rhode Island Hospital, Providence, Rhode Island, October 2001. Carroll M. Silver Lecturer Visiting Professorship. Clinical evaluative sciences: A new research discipline for orthopaedics.

**Wright JG:** Strategy Institute, Toronto, Ontario, March 2002. Developing a clinical trials unit at an academic health centre.

**Wright JG:** POSNA Specialty Day, Dallas, Texas, February 2002. Evidence-based orthopaedics; Changing the culture of paediatric orthopaedics.

**Wright JG:** Outcomes Measures Symposium. Association of Children's Prosthetics and Orthotics Clinics Annual Conference, Toronto, Ontario, April 2002. Outcome assessment in pediatric orthopaedics.

**Wright JG:** American Orthopaedic Association/Canadian Orthopaedic Association, Victoria, British Columbia, June 2002. Outcomes movement. Where did we come from and where are we going?

**Wright JG:** University of BC, Vancouver, British Columbia, April 2002. Visiting Professor University of British Columbia, Department of Pathology distinguished lecture series. Making diagnoses: Is getting a joke the same as having it explained to you?

## **RESEARCH AND INVESTIGATIONS**

*Senior Investigator's Name Appears in Italics*

(Renewal) A randomized trial of casting and external fixation for paediatric femoral fractures. *Wright JG, Wang E, Coyte PC: MRC (\$314,248 1998 - 2002).*

A randomized clinical trial comparing the Moss Miami & Universal Spinal Instrumentation Systems for idiopathic scoliosis. *James G. Wright/Douglas M. Hedden, Ben A. Alman, Bill G. Cole: Medical Research Council (Grant #MA-15242) (\$13,270 1998 - 2002).*

A randomized clinical trial comparing the Moss Miami and the Universal spinal instrumentation systems for idiopathic scoliosis. *Wright JG, Alman BA, Cole WG, Hedden DM: MRC Industry (\$13,270 1999 - 2002).*

A randomized clinical trial comparing the Moss Miami and Universal spinal instrumentation systems for idiopathic scoliosis. *Wright, Cole W, Alman B, Hedden D: Medical Research Council of Canada (\$53,080 1998 - 2002).*

A randomized clinical trial comparing the Moss-Miami and Universal Spinal Instrumentation Systems for idiopathic scoliosis. *Wright JG, Hedden DM, Alman BA, Cole WG: Johnson & Johnson Medical Products (\$25,000 2001 - 2002).*

A randomized trial comparing the Moss Miami & Universal Spinal Instrumentation Systems for idiopathic scoliosis. *Wright JG, Hedden DM, Alman BA, Cole WG: Medical Research Council of Canada (\$66,350 1998 - 2002).*

A randomized clinical trial comparing the Moss-Miami and Universal Spinal Instrumentation Systems for idiopathic scoliosis. *Wright JG, Hedden DM, Alman BA, Cole WG: Synthes (Canada) Ltd (\$50,000 2001 - 2003).*

Analysis of extracellular matrix molecule mutations in individuals with Ehlers-Danlos syndromes. A cause of premature development of osteoarthritis. *Cole WG, Roughley P: Canadian Arthritis Network, Network Centres of Excellence, Medical Research Council of Canada (\$160,000 1999 - 2003).*

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 pharmacologic therapy. *Alman BA: The National Cancer Institute of Canada (\$255,600 1998 - 2001).*

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

Canadian children's crash injury research and engineering network site. *Howard A, Wright JG, German A: Ontario Neurotrauma Foundation* (\$2,000 2000 - 2003).

Canadian children's crash injury research and engineering network site. *Howard AW, Wright JG, German A: Ontario Neurotrauma Foundation* (\$2,000 2000 - 2003).

Concerns, desires and expectations of surgery for adolescent idiopathic scoliosis: a comparison of patients' and surgeons' perspectives. *Narayanan, UG: The Hospital for Sick Children: Trainee's Start-up Fund* (\$2,000 2001 - 2002).

Cost-effectiveness of escalating dose factor VIII prophylaxis in severe hemophilia A. *Feldman B, Blanchette V, Einerson T, Rivard G, Israels S, Robinson S, Oh P, Babyn P, Hedden DM: Canadian Red Cross Society / Bayer* (\$120,000 1997 - 2001).

Crash protection for children. *Howard A, Wright JG, Parkin P, Letts RM, MacKay M, German A, Hale I: Ontario Neurotrauma Foundation* (\$231,700 2000 - 2002).

Crash protection for children. *Howard AW, Wright JG, Parkin P, Letts RM, Mackay M, German A, Hale I: Ontario Neurotrauma Foundation (grant #ONCO-00042)* (\$231,500 2000 - 2003).

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 of a new comorbidity index to adjust for those conditions which, in addition to the primary diagnosis, predict future functional decline. *Wright JG: Canadian Arthritis Network* (\$16,000 1999 - 2001).

Developmental signalling pathway antagonists in the treatment of brain and cartilage neoplasms. *Alman BA, Hui CC, Rutka J: National Cancer Institute of Canada, Terry Fox New Frontier* (\$590,000 1996 - 2002).

Do gender differences in personal and social variables help explain gender differences in arthritis disability? *Fortin P/Hawker GA, Gignac M, Wright JG, Badley E, Clarke A, Joseph L: Canadian Arthritis Network* (\$40,000 2001 - 2002).

Electronic measurement of orthopaedic radiographs on PACS compared with conventional films. *Gaine W, Wright JG, Hedden DM: The Hospital for Sick Children Trainee's Start Up Fund* (\$2,000 2002 - 2003).

Examining the relationship between evidence-based practice and physician and patient opinion. *Wright JG, Coyte PC, Glazier RH, Hawker GA, Kreder HJ, Mahomed NN: MRC* (\$212,988 1999 - 2002).

Examining the relationship between evidence-based practice and physician and patient opinion. *Wright JG, Coyte PC, Glazier RH, Hawker GA, Kreder HJ, Mahomed NN: Arthritis Society* (\$65,000 1999 - 2002).

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* (\$48,927 2001 - 2002).

Identifying bone density outcome measures that are reliable, clinically relevant and acceptable to both children with spina bifida and their families. *Johnson P, Ross M, Biggar D, Wright JG, Craven C, Weber C: Kidsaction Research Society* (\$24,832 2001 - 2002).

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).

Molecular mechanisms in wound healing. *Alman, BA: Canadian Institute of Health Research* (\$299,340 2002).

Molecular pathology of cartilage neoplasia : the role of parathyroid hormone related protein and indian hedgehog. *Alman BA and Wunder JS: MRC* (\$318,000 2000 - 2003).

Molecular pathology of Ehlers-Danlos syndrome and chondrodysplasias. *Cole WG: Canadian Institutes of Health Research* (\$1,200,270 1999 - 2004).

Molecular pathology of fibrosis: aggressive fibromatosis as a model system. *Alman BA: Medical Research Council of Canada* (\$22,344 1998 - 2001).

Randomized controlled trial of inpatients vs. home based rehabilitation following primary total hip and knee arthroplasty. *Mahomed NN, Wright JG, Hawker GA, Naglie G, Jaglal S, Badley E, Davis AM: Physicians' Services Incorporated Foundation* (\$47,000 2001 - 2002).

Randomized controlled trial of inpatients vs. home based rehabilitation following primary total hip and knee arthroplasty. *Mahomed, NN, Wright JG, Hawker GA: Physicians' Services Incorporated Foundation* (\$64,500 1999 - 2001).

Scientist Award. *Wright, James G: Medical Research Council of Canada* (\$300,000 1998 - 2003).

The Canadian Arthritis Network. *Cruz TF, Wright JG, 124 other co-investigators: Network Centres of Excellence* (\$3,800,000 1998 - 2002).

## HONOURS RECEIVED

**Alman BA:** George Armstrong-Peters Prize - for outstanding contributions to the research activities in the department, November 2001.

**Alman BA:** Royal College Medal Award in Surgery, January 2002.

**Cole WG:** Inaugural Eve and Arthur Veis Keynote Speaker, 7th International Conference of the Chemistry and Biology of Mineralized Tissues, Jacksonville, Florida, November 2001.

**Hedden DM:** PAIRO Trust Fund Travel Award, August 2001.

**Wright JG:** American Academy of Orthopaedic Surgery. Orthopaedic Research Society. Kappa Delta Award., February 2002.

**Wright JG:** Department of Surgery, University of Toronto Lister Prize for 2001/2002 (Awarded to an investigator who has shown outstanding and continuing productivity of international stature as evidenced by research, May 2002.



**DIVISION OF PLASTIC SURGERY**

**Dr. H.M. Clarke - Associate Professor**  
**Dr. L.G. Farkas - Associate Professor**  
**Dr. D.M. Fisher - Lecturer**  
**Dr. C.R. Forrest - Associate Professor**  
**Dr. W.K. Lindsay - Professor**  
**Dr. C.Y. Pang - Professor**  
**Dr. J.H. Phillips - Assistant Professor**  
**Dr. G. A. Tait -Assistant Professor**  
**Dr. Zuker - Professor (Division Head)**

**PUBLICATIONS**

**Black CE, Huang N, Neligan PC, Levine RH, Lipa JE, Lintlop S, Forrest CR and Pang CY:** Effect of nicotine on vasoconstrictor and vasodilator responses in human skin vasculature. *Am. J. Physiol. Regul. Integr. Comp. Physiol.*: October 2001: 281: pp R1097-104.

**Clarke HM, de Chalain T:** Burns and post-burn care: Surgical considerations. In: *Pediatric Anesthesia: Principles and Practice* (Bissonnette B, Dalens BJ, eds). McGraw-Hill, New York: 2002: pp 1414-1427.

**Cohen M, Bahoric A, Clarke HM:** Epithelialization of porcine wounds with an aerosol of epidermal cells. In: *Cultured Human Keratinocytes and Tissue Engineered Skin Substitutes* (Horch RE, Munster AM, Achauer BM, eds). Georg Thieme Verlag, Stuttgart, Germany: 2001: pp 305-315.

**Cohen M, Humphreys R, Dirks P, Rutka J, Drake J and Forrest CR:** Use of hydroxyapatite cement in reconstruction of complex congenital and acquired cranial vault deformities. *Craniofacial Surgery 9: Proceedings of the Ninth International Congress of the International Society of Craniofacial Surgery*. (Lauritzen CGK, ed). Monduzzi Editore, Bologna, Italy: 2001: pp 225-226.

**Curtis C, Stephens D, Clarke HM, Andrews D:** The active movement scale: An evaluative tool for infants with obstetrical brachial plexus palsy. *Journal of Hand Surgery (American)*: May 2002: 27(3): pp 470-478.

**de Chalain T, Zuker RM, Ackerley C:** Histologic, histochemical, and ultrastructural analysis of soft tissues from cleft and normal lips. *Plastic and Reconstructive Surgery*: September 2001: 108 (3): pp 605-611.

**Farkas LG, Katic MJ, Forrest CR, Litsas L:** Surface anatomy of the face in Down's Syndrome: Linear and angular measurements in the craniofacial region. *Journal of Craniofacial Surgery*: July 2001: 12(4): pp 373-380.

**Farkas LG, Katic MJ, Forrest CR:** Surface anatomy of the face in Down's Syndrome: Age related changes of anthropometric proportion indices in the craniofacial region. *Journal of Craniofacial Surgery*: May 2002: 13(4): pp 368-374.

**Farkas LG, Katic MJ, Forrest CR:** Surface anatomy of the face in Down's Syndrome: Anthropometric proportion indices in the craniofacial region. *The Journal of Craniofacial Surgery*: November 2001: 12(6): pp 519-526.

**Farkas LG, Tompson BD, Katic MJ, Forrest CR:** Differences between direct (anthropometric) and indirect (cephalometric) measurements of the skull. *Journal of Craniofacial Surgery*: January 2002: 13(1): pp 105-110.

**Fialkov JA, Holy C, Forrest CR, Phillips JH and Antonyshyn OM:** Post-operative infections in craniofacial reconstructive procedures. *J. Craniofacial Surgery*: July 2001: 12: pp 362-368.

**Fisher DM, Chang CJ, Chua JJ, Chen YR, Achauer BM:** Potential complications of intralesional laser photocoagulation for extensive vascular malformations. *Annals of Plastic Surgery*: September 2001: 47: pp 252-6.

**Forrest CR, de Kleer N, Blaser S and Buncic R:** Outcome following early surgical intervention in the treatment of pediatric orbital floor trapdoor fractures. *Craniofacial Surgery 9: Proceedings of the Ninth International Congress of the International Society of Craniofacial Surgery*. (Lauritzen CGK, ed). Monduzzi Editore, Bologna, Italy: 2001: pp 227-229.

**Forrest CR, Grace D, Rutka JR, Drake J, Dirks P and Humphreys R:** Comparison of bioresorbable versus titanium fixation in pediatric craniosynostosis surgery. *Craniofacial Surgery 9: Proceedings of the Ninth International Congress of the International Society of Craniofacial Surgery*. (Lauritzen CGK, ed). Monduzzi Editore, Bologna, Italy: 2001: pp 21-22.

**Forrest CR, Mihailovic A, Buncic R, Drake J, Thorner P and Greenberg M:** Lacrimal gland adenosquamous carcinoma: An unusual case of proptosis in a 6 year old boy. *Craniofacial Surgery 9: Proceedings of the Ninth International Congress of the International Society of Craniofacial Surgery*. (Lauritzen CGK, ed). Monduzzi Editore, Bologna, Italy: 2001: pp 231-233.

**Forrest CR, O'Donovan DA, Yeung I, Zeman V, La Scala G, Neligan PC, Pang CY:** Efficacy of radioprotection in the prevention of radiation-induced craniofacial bone growth inhibition. *Plastic Reconstructive Surgery*: April 2002; 109(4): pp 1311-23.

**Jugenburg M, Hubley P, Yandell, Manktelow RT, Zuker RM:** Self-esteem in children with facial paralysis: A review of measures. *The Canadian Journal of Plastic Surgery*: July 2001; 9 (4): pp 143-146.

**Klebuc M, Burrow S, Organek A, Cole W, Zuker R M:** Osteochondroma as a causal agent in popliteal artery pseudoaneurysms: Case report and literature review. *Journal of Reconstructive Microsurgery*: October 2001; 17 (7): pp 475-479.

**La Scala G, Carroll SM, Forrest CR, Zuker RM:** Use of a mechanical leech in a reverse-flow radial forearm flap: Case report. *Journal of Reconstructive Microsurgery*: July 2001; 17 (5): pp 335-340.

**La Scala G, Fisher DM:** An inexpensive sterile cover for digital photography in the operating room. *Plastic and Reconstructive Surgery*: December 2001; 108: pp 2182-2183.

**La Scala GC, Shenker RL, Addison PD, Zhong A, Pang CY, Neligan PC and Forrest CR:** Modification of the radioactive microsphere technique for assessment of regional blood flow to the craniofacial skeleton in the New Zealand rabbit. *Canadian Journal of Plastic Surgery*: February 2002; 10: pp 15-19.

**Le TT, Farkas LG, Ngim CK, Levin S:** Proportionality in Asian and North American Caucasian faces using neoclassical facial canons as criteria. *Aesthetic Plastic Surgery*: March 2002; 26(1): pp 64-69.

**Lee C, Mankani MH, Kellman RM and Forrest CR:** Minimally invasive approaches to mandibular fractures. In: *Facial Plastic Surgery Clinics of North America* (Thomas, J.R., eds). W. B. Saunders, Philadelphia, PA: 2001: pp 475-488.

**O'Blenes CAE, Berbari P, Zuker RM:** Case Report: Subcutaneous fat necrosis associated with thrombocytosis in an infant following cardiac surgery. *Canadian Journal of Plastic Surgery*: October 2001; 10 (1): pp 37-41.

**O'Donovan D, La Scala G, Yeung I, Zeman V, Mendes M, Leong I, Pritzker KPH, Pang CY, Neligan PC and Forrest CR:** Development of protective cytoprotective strategies for the prevention of radiation-induced craniofacial bone growth: Inhibition in an animal model. *Craniofacial Surgery 9: Proceedings of the Ninth International Congress of the International Society of Craniofacial Surgery* (Lauritzen CGK, ed). Monduzzi Editore, Bologna, Italy: 2001: pp 101-103.

**O'Donovan DA, Yeung I, Zeman V, Neligan PC, Pang CY, Forrest CR:** Radiation-induced craniofacial bone growth inhibition: Development of an animal model. *Journal of Craniofacial Surgery*: November 2001; 12(6): pp 533-43.

**Pang CY, Forrest CR:** Pharmacological preconditioning of skeletal muscle against infarction. In: *Skeletal Muscle: Pathophysiology, diagnosis and management of disease* (Peters DJ, ed). Churchill Livingstone, London: 2002: pp 623-637.

**Strumas N, Smith S, Antonyshyn OM, Fialkov J and Forrest CR:** Post-traumatic malocclusion. *Craniofacial Surgery 9: Proceedings of the Ninth International Congress of the International Society of Craniofacial Surgery* (Lauritzen CGK, ed). Monduzzi Editore, Bologna, Italy: 2001: pp 205-207.

**Walker DA, Forrest CR, Nish IA and Tompson B:** Intraoral bidirectional mandibular distraction osteogenesis. *Proceedings of the Third International Congress of Cranial and Facial Bone Distraction Processes*. (Arnaud, E and Diner PA, eds). Monduzzi Editore, Bologna, Italy: 2002: pp 259-265.

**Zuker RM:** Discussion: Reconstruction of the hand in Apert syndrome: A simplified approach. *Plastic and Reconstructive Surgery*: February 2002; 109 (2): pp 471.

**Zuker RM, Cohen MN:** Congenital anomalies: Discussion. In: *The Unfavourable Result in Plastic Surgery, Avoidance and Treatment*, 3rd Edition (Goldwyn RM, Cohen MN, eds). Lippincott, Williams & Wilkins, Philadelphia: 2001: pp 710-713.

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

**Clarke HM:** 41st Annual Winnipeg Orthopaedic Symposium, Winnipeg, Manitoba, October 2001. (1) Cleft hand and symbrachydactyly (2) Natural history of obstetrical brachial plexus injury (3) Surgical treatment of obstetrical brachial plexus injury.

**Clarke HM:** An International Videoconferenced Burns Breakfast Symposium (via Telehealth), Toronto, Ontario and Brisbane, Australia, November 2001. Cool your coals (with Yvonne Cheng and Dr. Robert Cartotto).

- Clarke HM:** Canadian Society of Orthopaedic Technologists, Toronto, Ontario, November 2001. Obstetrical brachial plexus surgery.
- Clarke HM:** Astrid Lingren Children's Hospital (Karolinska Institute), Stockholm, Sweden, May 2002. The evaluation and treatment of obstetrical brachial plexus palsy.
- Clarke HM:** Department of Hand Surgery, Sodertjukhuset, Stockholm, Sweden, May 2002. The evaluation and treatment of obstetrical brachial plexus palsy.
- Clarke HM:** Lesions Obstetricales du Plexus Brachial, Brussels, Belgium, January 2002. Treatment of obstetrical palsy: State of the art.
- Fisher DM:** Canadian Society of Plastic Surgeons Annual Meeting, St. John, New Brunswick, June 2002. Invited Co-Chair.
- Fisher DM:** The 16th Annual British Virgin Islands Workshop in Plastic Surgery, Tortola, British Virgin Islands, January 2002. Invited Guest - (1) A validated measure for grading the primary unilateral cleft lip nasal deformity, (2) case report: anatomical subunit repair of a Tessier #4 facial cleft.
- Fisher DM:** Operation Smile - Preah Bat Norodom Sihanouk Hospital, Phnom Penh, Cambodia, April 2002. Member of a team of volunteer plastic surgeons.
- Forrest CR:** Division of Plastic Surgery, Yale University Visiting Professorship, New Haven, CT, May 2002. Experience with bone paste in complex cranial vault deformities.
- Forrest CR:** AO/ASIF Maxillofacial Course for Surgeons, Ypsilanti, Michigan, October 2001. Management of failures and complications of mandibular fractures.
- Forrest CR:** AO/ASIF Maxillofacial Course for Surgeons, Ypsilanti, Michigan, October 2001. Pediatric Facial Fractures.
- Forrest CR:** Division of Plastic Surgery, Yale University Annual Visiting Professorship, New Haven, CT, May 2002. Pediatric Orbital Floor Fractures.
- Zuker:** Visiting Professor: Royal College of Physicians and Surgeons of Canada, Lectures to Faculty and Housestaff, University of Manitoba, Winnipeg, Manitoba, April 2002. (1) Muscle transplantation for Volkmann's ischemic contractor, (2) The role of the plastic surgeon in the separation of conjoined twins.
- Zuker:** Lecturer: American Society for Reconstructive Microsurgery, Resident/Fellow Symposium, Cancun, Mexico, January 2002. (1) Pediatric free flap, (2) Facial reanimation.
- Zuker:** Visiting Professor: Royal College of Physicians and Surgeons of Canada, Surgical Grand Rounds, University of Manitoba, Winnipeg, Manitoba, April 2002. Congenital facial paralysis reconstruction.
- Zuker:** Guest Lecturer: Buenos Aires Plastic Surgery Society (via Telehealth), Buenos Aires, Argentina, September 2001. Facial paralysis reconstruction.
- Zuker:** American Society for Peripheral Nerve, Cancun, Mexico, January 2002. Instructional course: Motorized muscle transfers.
- Zuker:** American Society for Reconstructive Microsurgery, Cancun, Mexico, January 2002. Instructional course: Pediatric microsurgery.
- Zuker:** Visiting Professor: Cedars-Sinai Medical Center, Plastic Surgery Quarterly Meeting, Los Angeles, California, October 2001. Lecturer: Pediatric microsurgery,.
- Zuker:** The Cleveland Foundation, Center for Continuing Education, Cleveland, Ohio, September 2001. New horizons in pediatric and adolescent plastic surgery.
- Zuker:** Lecturer: American Academy of Pediatrics, Academic Response Seminar, San Francisco, California, October 2001. Pediatricians and birthmarks.
- Zuker:** Visiting Professor: Cedars-Sinai Medical Center, Plastic Surgery Residents and Fellows, Los Angeles, California, October 2001. Seminar: Facial paralysis in children.
- Zuker:** Guest Speaker, 1st International Moebius Syndrome Conference, Island of San Servolo, Venice, Italy, July 2001. Smile surgery.
- Zuker:** University of Indiana, Indianapolis, Indiana, May 2002. Visiting Professor.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

Effect of smokeless tobacco on endothelial functions in human skin. *Pang CY: Smokeless Tobacco Research Council* (\$201,000 2000 - 2002).

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).

Investigation of histopathophysiology and pharmacologic intervention of radiation-induced craniofacial bone growth retardation. *Neligan PC, Forrest CR and Pang CY: The Hospital for Sick Children Foundation* (\$127,025 2000 - 2002).

Investigation of the mechanism of cytoprotection in the prevention of radiotherapy-induced craniofacial bone growth inhibition. *Forrest CR: Plastic Surgery Education Foundation* (\$7,500 2001 - 2002).

Mechanism and pharmacologic intervention of radiation induced craniofacial bone growth retardation. *Forrest CR, Pang CY: Medical Research Council of Canada* (\$134,210 2000 - 2002).

Mechanism and pharmacologic intervention of radiation-induced craniofacial bone growth retardation. *Forrest CR, Pang CY: Medical Research Council of Canada - University-Industry program* (\$126,000 2000 - 2002).

Predictors of debridement distress in scald burn injured children. *Young A, Hanson M, Hubley P, Clarke HM: Psychiatry Endowment Fund, Hospital for Sick Children* (\$23,985 2000 - 2002).

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

Regulation of cutaneous circulation in skin flaps. *Pang CY: Medical Research Council of Canada* (\$367,750 1996 - 2001).

Skin flap ischemia: Pathophysiology and pharmacologic intervention. *Pang CY, Neligan PC: Canadian Institutes of Health Research* (\$480,000 2001 - 2006).

The Active Movement Grading Scale - a Teaching Video. *Clarke, HM, Curtis, CG: Josie Walter Fund* (\$15,000 2002).

## HONOURS RECEIVED

**Clarke HM:** PAIRO Excellence in Clinical Teaching Award, April 2002.

**Clarke HM:** Supervisor for Dr. N. deKleer - Outstanding Nerve Paper Presentations, American Society for Peripheral Nerve, Cancun, Mexico, January 2002.

**Fisher DM:** Plastic Surgery Educational Foundation Scientific Essay Contest - The Residual Unilateral Cleft Lip Nasal Deformity, May 2002.

**Forrest CR:** Supervisor: Research Fellow: Dr. Giorgio La Scala - Restracom Research Fellowship, July 2001.

**Forrest CR:** Visiting Professor, Division of Plastic Surgery, Yale University Annual Resident Research Day, May 2002.

## DIVISION OF UROLOGY

**Dr. D.J. Bagli - Assistant Professor**  
**Dr. L.L. Burrows - Assistant Professor**  
**Dr. W. Farhat - Assistant Professor**  
**Dr. A.E. Khoury - Professor (Division Head)**  
**Dr. G.A. McLorie - Associate Professor**

### PUBLICATIONS

**Brown AL, Farhat W, Merguerian PA, Wilson GJ, Khoury AE, Woodhouse KA:** 22 week assessment of bladder acellular matrix as a bladder augmentation material in a porcine model. *Biomaterials*: May 2002: 23(10): pp 2179-90.

**Farhat W:** Neonatal ultrasound matches accuracy of renal scans. *Urology Times*: September 2001: 28(11): pp 28.

**Farhat W, Capolicchio JP, Merguerian PA:** Pediatric renal transplantation. In: *Pediatric Anesthesia: Principles & Practice* (Bissonnette B, Dalens BJ, eds). McGraw-Hill, USA: 2002: pp 1309-1318.

**Farhat W, McLorie G, Bagli D, Khoury AE:** Greater reliability of neonatal ultrasonography in defining renal hypoplasia with antenatal hydronephrosis and vesicoureteral reflux. *Canadian Journal of Urology*: February 2002: 9(1): pp 1459-1463.

**Farhat W, McLorie GA, O'Reilly S, Khoury AE, Bagli DJ:** Reliability of the dysfunctional voiding symptom score in monitoring response to behavioral modification in children with voiding dysfunction. *Canadian Journal of Urology*: December 2001: 8(6): pp 1401-1405.

**Farhat W, Merguerian PA, Capolicchio JP:** Renal transplantation: Surgical considerations. In: *Pediatric Anesthesia: Principles & Practice* (Bissonnette B, Dalens B, eds). McGraw-Hill, USA: 2002: pp 1309-1318.

**Finelli A, Burrows LL, DiCosmo FA, DiTizio V, Sinnadurai S, Oreopoulos DG, Khoury AE:** Colonization-resistant antimicrobial coated peritoneal dialysis catheters: evaluation in a newly developed rat model of persistent *P. aeruginosa*. *Peritoneal Dialysis International*: January 2002: 22 (1): pp 1-5.

**Forward KR, Willey BM, Low DE, Mcgeer A, Kapala MA, Kapala MM, Burrows LL:** Molecular mechanisms of cephamycin resistance in *Escherichia coli* from Toronto Invasive Bacterial Diseases Network (TIBDN) hospitals. *Diagn. Microbiol. Infect. Dis*: November 2001: 41: pp 57-63.

**Hafez At, McLorie GA, Bagli DJ, Khoury AE:** Single-center long-term outcome analysis of artificial urinary sphincter (AUS) placement in a pediatric population. *British Journal of Urology*: January 2002: 89 (1): pp 82-85.

**Hafez AT, Smith CR, McLorie GA, El-Ghoneimi A, Herz D, Bagli D, Khoury AE:** Tunica vaginalis for correction of penile chordee: is there a difference between flap versus graft? *Journal of Urology*: October 2001: 166(4): pp 1429-1432.

**Herz D, Hafez A, Bagli DJ, Capolicchio GP, McLorie GA, Khoury AE:** Efficacy of endoscopic subureteral macroplastique injection for the treatment of vesicoureteral reflux in children: First North American report. *The Journal of Urology*: November 2001: 166(5): pp 1880-1886.

**Herz, DB, McLorie GA, Hafez AT, Rodgers-Herz,C, Shuckett B, El-Ghoneimi A, Bagli DJ, Merguerian PA, Khoury AE:** High resolution ultrasound characterization of early allograft hemodynamics in pediatric renal transplantation. *Journal of Urology*: November 2001: 166(5): pp 1853-1858.

**Khoury AE, Hodapp J:** Current surgical trends in ureteral reimplantation. *Dialogues in Pediatric Urology*: November 2001: 24 (11): pp 2-4.

**McLorie GA:** Wilms' Tumor (nephroblastoma). *Current Opinion in Urology*: November 2001: pp 567-570.

**McLorie GA, Bagli DJ:** Tumors of the retroperitoneum. In: *Clinical Pediatric Urology* (Lowell R. King, A. Berry Belman, Stephen A. Kramer, eds). Martin Duntz Ltd., Oxford, UK: 2002: pp 1325-1348.

**McLorie GA, Farhat W, Khoury AE, Geary D, Ryan G:** Outcome analysis of vesicoamniotic shunting procedures in a comprehensive population. *Journal of Urology*: September 2001: 166(3): pp 1036-1040.

**McLorie GA, Khoury AE:** Osteotomy in bladder exstrophy. In: *Operative Pediatric Urology 2nd Edition* (J. David Frank, Howard M. Snyder III, eds). Harcourt Health Sciences, London, UK: 2002: pp 197-204.

**Merguerian PA, Khoury AE:** Rhabdomyosarcoma: prostate, bladder, vagina, and other bladder tumors. In: *Clinical Pediatric Urology* (Lowell R. King, A. Barry Belman and Stephen A. Kramer, eds). Martin Duntz Ltd., London, England: 2002: pp 1291-1312.

**Newton GJ, Daniels C, Burrows LL, Kropinski A, Clarke AJ, Lam JS:** Three-component-mediated serotype conversion in *Pseudomonas aeruginosa* by bacteriophage D3. *Molecular Microbiology*: November 2001: 39: pp 1237-1247.

**Reddy P, Khoury AE:** Genitourinary tract surgery: surgical considerations. In: *Principles and Practice of Pediatric Anesthesia* (Bissonnette B, Dalens B, eds). McGraw-Hill, New York: 2001: pp 1031-1049.

**Rinelli A, Burrows LL, DiCosmo F, DiTizio V, Oreopolous G, Sinnadurai S, Khoury AE:** Colonization-resistant antimicrobial-coated peritoneal dialysis catheters: Evaluation in a newly developed rat model of persistent *P. aeruginosa* peritonitis. *Peritoneal Dialysis International*: February 2002: 22: pp 27-31.

**Upadhyay J, Bolduc S, Braga L, Farhat W, Bagli DJ, McLorie GA, Khoury AE, El-Ghoneimi A:** Impact of antenatal diagnosis on the morbidity associated with ureterocele management. *Journal of Urology*: June 2002: 167: pp 2560-65.

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

**Herz D, Bagli DJ, Aitken K:** 761, is extracellular matrix induced proliferation of bladder smooth muscle cells reversible? American Academy of Paediatrics (AAP) Section on Urology Annual Meeting, San Francisco, California: October 2001: (An oral podium presentation of a paper).

**Khoury AE:** University of British Columbia, Vancouver, BC, June 2002. Bladder reconstruction and continent procedures in children: lessons learnt and a peak into the future.

**Khoury AE:** Mafraq Hospital, Abu Dhabi, United Arab Emirates, January 2002. Management algorithms.

**Khoury AE:** Mansoura University/Urology & Nephrology Center, Mansoura, Egypt, September 2001. Pediatric update 1 & 2.

**Khoury AE:** MEMA The XXXVIIth Middle East Medical Assembly, Beirut, Lebanon, May 2002. Pediatric GU malignancies: An Update.

**Khoury AE:** Mafraq Hospital, Abu Dhabi, United Arab Emirates, January 2002. Posterior urethral valves from prenatal diagnosis to puberty.

**Khoury AE:** Mafraq Hospital, Abu Dhabi, United Arab Emirates, January 2002. Prenatal hydronephrosis.

**Khoury AE:** MEMA The XXXVIIth Middle East Medical Assembly, Beirut, Lebanon, May 2002. Urinary reservoirs in the pediatric population.

**Khoury AE:** MEMA The XXXVIIth Middle East Medical Assembly, Beirut, Lebanon, May 2002. Wilms tumor: Evolving concepts in the past 10 years.

**McLorie GA:** Chilean, Urologic Society, Chile, October 2001. Bladder exstrophy.

**McLorie GA:** Chilean, Urologic Society, Chile, October 2001. Hydronephrosis in infants.

**McLorie GA:** Society of Pediatric Urologic Surgeons, Brazil, June 2002. Outcome Analysis of Health issues, in Antenatal Diagnosis of Vesicoureteral Reflux.

**McLorie GA:** Chilean, Urologic Society, Chile, October 2001. Treatment of posterior urethral valves.

**RESEARCH AND INVESTIGATIONS**

*Senior Investigator's Name Appears in Italics*

Characterization and treatment of category III prostatitis. *J. Curtis Nickel, Queen's University, Kingston, ON, (Toronto Site) Keith Jarvi Lori L. Burrows: National Institutes of Health (\$200,000 1998 - 2002).*

Development of antimicrobial liposomal silver formulations for medical devices. *Burrows LL: UroTeq Inc (\$30,000 2002 - 2003).*

Equipment grant for "Influence of cell surface mutations on *Pseudomonas aeruginosa* biofilm formation". *Lori L. Burrows: Canadian Institutes of Health Research (\$11,395 2001 - 2002).*

Evaluation of colonization-resistant peritoneal dialysis catheter materials in an animal model of peritonitis. *Khoury AE, Burrows LL, DiCosmo F: The Kidney Foundation of Canada (\$96,088 2002 - 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).*

Identification and characterization of genes encoding antibiotic resistance in the multidrug-resistant pathogen, *Burkholderia cepacia*. *Lori L. Burrows: Faculty of Medicine, University of Toronto (Dean's Fund) (\$9,905 1999 - 2001).*

Influence of cell surface mutations on *Pseudomonas aeruginosa* biofilm formation. *Lori L. Burrows: Canadian Institutes of Health Research (\$78,767 2001 - 2003).*

Microbiological studies related to silicone breast implants. *Smith D, Burrows LL, Khoury AE, Boynton E, Fournasier V, Peters W, Semple J, Esterby S: Dow-Corning Inc (\$84,000 2001 - 2002).*

Microbiology of the human breast and breast implants. *Dennis Smith, Lori L. Burrows Victor Fournasier Walter Peters Stanley Lugowski: Dow Corning (\$80,000 2001 - 2002).*

Novel cell signalling peptides for treatment of scarring in bladder. *Woodhouse K, Bagli DJ, Khoury AE: Materials and Manufacturing Ontario (\$398,833 2000 - 2002).*

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

*Pseudomonas aeruginosa* biofilm-specific gene expression. *Lori L. Burrows: Connaught Committee, University of Toronto (\$30,000 2000 - 2002).*

*Pseudomonas aeruginosa* biofilm-specific gene expression. *Lori L. Burrows: Connaught Committee, University of Toronto (\$35,000 2001 - 2004).*

The natural history of colonization, transmission, and resistance mechanisms of beta-lactam resistant Enterobacteriaceae in solid organ transplant recipients. *Michael A. Gardam, Lori L. Burrows (Co-principal investigator) Atul Humar (Co-principal investigator) James Brunton John Conly: Physician Services Inc. Foundation (\$124,500 2000 - 2001).*

The role of integrins in stretch induced fibroproliferative disease of the bladder. *Bagli DJ, Upadhyay J: American Foundation for Urologic Disease (\$32,000 2001 - 2002).*

# Mount Sinai Hospital

**Dr. Z. Cohen – Surgeon-in-Chief**



## HEADS OF DIVISIONS

**Dr. R.S. McLeod – General Surgery**

**Dr. A.E. Gross – Orthopaedic Surgery**

**Dr. K. Jarvi - Urology**

The Department of Surgery at Mount Sinai Hospital consists of four major divisions – those being General Surgery, Orthopaedic Surgery, Urology and Plastic Surgery.

## General Surgery

The priority areas within General Surgery continue to be Inflammatory Bowel Disease, Gastrointestinal Oncology, Breast Disease and Head and Neck Endocrine Surgery. Further efforts at clinical integration between the General Surgical Divisions at Mount Sinai Hospital and the Toronto General Hospital continue.

In education the individuals within the Division have prominent roles. Examples are the University of Toronto General Surgery Update Course, the Mount Sinai Hospital GI Update Course, the Breast Cancer Course entitled “Controversies in the Etiology Detection and Treatment of Breast Cancer”, TORSO Rounds, Colorectal Rounds and the highly successful Evidence Based Reviews in surgery. Dr. Robin McLeod is the Chair of the Evidence Based Reviewers Committee, of the Canadian Association of General Surgeons.



Helen MacRae is the Director of the Surgical Skills Centre and has contracted the curriculum to one year but has expanded the opportunities within the Surgical Skills Centre. In addition to the research aspect, a colonoscopy simulator and a laparoscopic simulator have been new purchases this year. These simulators have added tremendously to the educational aspect for all of our residents.

Several members of the General Surgical Division have active research programs. These include Drs. Alan Dackiw, Steven Gallinger, Helen MacRae, Robin McLeod, Andrea McCart and Dr. Carol Swallow. Dr. Steven Gallinger supervises two surgical scientist trainees – Kouros Moozar and Sean Cleary. Dr. Helen MacRae supervises Mylene Ward and Dr. Robin McLeod supervises Erin Kennedy, Tracy Asano and Mary-Ann Aarts. Dr. Carol Swallow currently supervises Michael Ko and Jennifer MacMillan and Emily Partridge successfully completed their Masters degree during the year.

Dr. Steven Gallinger was awarded the Lloyd Fogler Award at Mount Sinai Hospital and the Israel Cancer Research Fund Award in recognition of his cancer research contributions. Dr. Robin McLeod was elected President Elect of the Canadian Association of General Surgeons and will take over the presidency in September of 2002. In addition, she was named Regent of the American College of Surgeons following the Annual Meeting of the American College of Surgeons in October.

## Orthopaedic Surgery

The Division of Orthopaedic Surgery continues to stress Arthroplasty Surgery and Orthopaedic Oncology. Dr. Peter Ferguson joined the group in July 2002, to aid in the Orthopaedic Oncology effort.



On the arthroplasty side, Allan Gross has been honoured with the Canadian Orthopaedic Association President's Award for Excellence in recognition of his outstanding contributions to Orthopaedic Surgery. Allan remains the National Chairman for Hip Hip Hooray, which is a national fundraiser for hip prosthesis and hip surgery research. He along with Aileen Davis have received funding from the Arthritis Society, the Canadian Orthopaedic Foundation and the Canadian Institutes of Health Research looking mainly at predictors of outcome following revisionary hip arthroplasty. Dr. David Backstein has been instrumental in studying the effectiveness of video feedback, in the development of surgical technical skills in the Surgical Skills Centre at Mount Sinai Hospital. He has also received a PSI grant for his work. Dr. Erin Boynton has received research funding from the Arthritis Society, for her studies involving the Role of the Macrophage in Polyethylene Mediated Total Joint Replacement Failure. She was nominated for a Wightman-Berris Teaching Award in 2002. The Orthopaedic Oncology group which involves Drs. Robert Bell and Jay Wunder have published results of Randomized Clinical Trials Related to Clinical Outcomes in Soft Tissue Sarcoma in the Lancet in June 2002 and have published a work, Signalling Pathway Abnormality in Chondrosarcoma in Nature Genetics. Importantly, they have established a virtual private network for clinical data collection and tumour banking, for three centres – Toronto, Montreal and Vancouver – Cross Canada as part of a large interdisciplinary health research team and musculoskeletal neoplasia. Dr. Robert Bell completed his term as President of the Musculoskeletal Tumour Society and was appointed Head of the Oncology Program at the University Health Network. Sevyan Hopyan – one of the surgical scientist trainees – received his Ph.D. during this year.

Orthopaedic divisional visitors have included surgeons from around the world – from Hong Kong, Saudi Arabia, Taiwan, Brazil, Israel, Poland and England to name a few.

### **Urology**

The Urology program at Mount Sinai Hospital is focused in the area of Andrology/Infertility. It is acting as a tertiary care centre for the management of male infertility for the Canadian population. Approximately 20% of the patients come from outside of Ontario with 60% from outside the greater Toronto area. This program has become a national resource. Dr. Keith Jarvi remains on the Executive of the Society for Studies in Male Reproduction and Dr. Armand Zini has taken on a new role as secretary of the Canadian Andropause Society.

In education, both a clinical fellowship in male infertility (Tony Fischer) and a surgical scientist research project in clinical education (Ethan Grober) were funded by CIHR and PSI respectively. The Mount Sinai Hospital Division of Urology continues to act as an andrology training centre for the Urology residents at the University of Toronto, as well as for fellows and residents in the Gynaecology Program.

The research activities have included mainly studies in the area of fertility and sterility. More specifically the areas of research have involved genetics of male fertility, sperm DNA damage, infection in male infertility and prostatitis, and the effects of varicoceles on male infertility. Granting has continued from the NIH and PSI.

### **Plastic Surgery**

Dr. Eamon Beausang joined Dr. Nancy McKee within plastic surgery. He had a significant impact on reconstruction surgery for many of the major operative procedures particularly in head and neck, breast and abdominal oncology. Dr. Nancy McKee was appointed as Co-Chair of the Surgical Council at Mount Sinai Hospital – an important liaison position between management and the providers of surgical service.

## **DIVISION OF GENERAL SURGERY**

**Dr. Z. Cohen - Professor**

**Dr. J. Couture - Assistant Professor**

**Dr. S. Gallinger - Professor**

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

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

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

**Dr. 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 - Assistant Professor**

## **PUBLICATIONS**

**Asano T, McLeod RS:** Dietary fibre for the prevention of colorectal adenomas and carcinomas (Cochrane Review). The Cochrane Library: January 2002: 2: pp CD003430.

**Ault G, Reznick R, MacRae HM, Leadbetter W, LaRosa D, Joehl R, Peters J, Regehr G:** Exporting a technical skills evaluation technology to other sites. American Journal of Surgery: September 2001: 182(3): pp 254-6.

**Barkun JST, Keith RG and the Evidence Based Reviews in Surgery Group:** Canadian Association of General Surgeons Evidence Based Reviews in Surgery. 2. Canadian Journal of Surgery: February 2002: 45: pp 207.

**Brierley, J.D., Catton, P.A., O'Sullivan, B., Dancey, J.E., Dowling, A.J., Irish, J.C., McGowan, T. S., Sturgeon, J.F.G., Swallow, C.J., Rodrigues, G.B., Panzarella, T:** Accuracy of recorded tumor, node, and metastasis stage in a comprehensive cancer center. Journal of Clinical Oncology: January 2002: 20: pp 413-9.

**Brubaker, P.L., Drucker, D.J., Asa, S.L., Swallow, C.J., Redston, M., Greenberg, G.R:** Prolonged gastrointestinal transit in a patient with a GLP-1- and GLP-2-producing neuroendocrine tumor. Journal of Clinical Endocrinology and Metabolism: March 2002: 87: pp 3078-3083.

**Canadian Task Force on Preventive Health Care:** Colorectal Cancer Screening : Recommendations from the Canadian Task Force on Preventive Health Care. Canadian Medical Association Journal: July 2001: 165: pp 206-8.

**Easson AM, Cotterchio M, Crosby JA, Sutherland H, Dale D, Aronson M, Holowaty E, Gallinger S:** A population-based study of the extent of surgical resection of potentially curable colon cancer. Annals of Surgical Oncology: May 2002: 9 (4): pp 380-387.

**Esplen MJ, Butler K, Madlensky L, Wong J, Aronson M, Gallinger S:** Motivations and psychosocial impact of genetic testing for Hereditary Nonpolyposis Colorectal Cancer (HNPCC). American Journal of Medical Genetics: September 2001: 103 (1): pp 9-15.

**Friedlich M, MacRae HM, Oandasan I, Tannenbaum D, Batty H, Reznick R, Regehr G:** Structured assessment of minor surgical skills (SAMSS) for family medicine residents. Academic Medicine: December 2001: 76(12): pp 1241-6.

**Furlan JC, Bedard Y, Rosen IB:** Biologic basis for the treatment of microscopic occult well-differentiated thyroid cancer. Surgery: December 2001: 130 (6): pp 1050-1054.

**Ghadirian P, Liu G, Gallinger S, Schmocker B, Paradis A-J, Lal G, Brunet J-S, Foulkes WD, Narod SA:** Risk of pancreatic cancer among individuals with family history of cancer of the pancreas. International Journal of Cancer: February 2002: 97 (6): pp 807-810.

**Gryfe R, Gallinger S:** Microsatellite instability, mismatch repair deficiency, and colorectal cancer. Surgery: July 2001: 130 (1): pp 17-20.

**Hy Y, Lee J, McCart JA, Xu H, Moss B, Alexander HR, Bartlett DL:** Yaba like disease virus: an alternative replicating px virus for cancer gene therapy. Journal of Virology: November 2001: 75(21): pp 10300-8.

**Jones, J.J., Catton, C.N., O'Sullivan, B., Couture, J., Kandel, R., Swallow, C.J:** Initial results of a trial of preoperative external-beam and postoperative brachytherapy for retroperitoneal sarcoma. *Annals of Surgical Oncology*: March 2002: 9: pp 346-354.

**Kennedy ED, Rothwell DM, MacRae HM, Cohen Z, McLeod RS:** Factors affecting outcomes for the pelvic pouch procedure in Ontario. *Surgical Forum*: January 2002: L11: pp 448-451.

**Kivien MH, Bartlett DL, Libutti SK, Skarulis MC, Marx SJ, Simonds WF, Weinstein LS, Jenson RT, McCart JA, Naik AM, Kranda KC, Norton JA, Fraker DL, Alexander HR:** Re-operation for hyperparathyroidism in multiple endocrine neoplasia type 1(MEN1). *Surgery*: December 2001: 130(6): pp 991-8.

**Lal G, Ash C, Hay K, Redston M, Kwong E, Hancock B, Mak T, Kargman S, Evans JF, Gallinger S:** Suppression of intestinal polyps in Msh2 deficient and non-Msh2 deficient Min mice by a specific cyclooxygenase-2 inhibitor and by a dual cyclooxygenase-1/2 inhibitor. *Cancer Research*: August 2001: 61 (16): pp 6131-6136.

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**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*: April 2002: 45 (4): pp A16-18.

**Maclean AR, O'Connor BI, Mukraj D, Kennedy ED, Parkes R, MacRae H, McLeod RS, Cohen Z,:** Risk of small bowel obstruction following ileo pouch-anal anastomosis. *Annals of Surgery*: February 2002: 235 (2): pp 200-6.

**MacRae HM, Temple LFK, McLeod RS:** A meta-analysis of hemorrhoidal treatments. *Seminars in Colon and Rectal Surgery*: March 2002: 13: pp 77.

**Marotta A, Tan C, Gray V, Malik S, Gallinger S, Sanghera J, Dupuis B, Owen D, Dedhar S, Salh B:** Dysregulation of integrin-linked kinase (ILK) signaling in colonic polyposis. *Oncogene*: September 2001: 20 (43): pp 6250-6257.

**McCart JA, Ward JM, Lee J, Hu Y, Alexander HR, Libutti SK, Moss B, Bartlett DL:** Systemic cancer therapy with a tumor selective vaccinia virus mutant lacking thymidine kinase and vaccinia growth factor genes. *Cancer Research*: December 2001: 61(24): pp 8751-7.

**McLeod RS:** Are appendectomy and the subsequent risk of ulcerative colitis related? *Surgery*: July 2001: 130: pp 121-2.

**McLeod RS:** Management of fulminant colitis. *Inflammatory Bowel Diseases*: January 2002: 138: pp 138-139.

**McLeod RS and the Canadian Task Force on Preventive Health Care:** Preventive Health Care, 2000 Update : Screening strategies for colorectal cancer. *Canadian Journal of Gastroenterology*: October 2001: 10: pp 647-60.

**McLeod RS, Cohen Z,:** Congenital duplication of the rectum: endoscopic and radiological appearance of an unusual condition. *Surgery*: November 2001: 130 (5): pp 895-6.

**McLeod RS, Evans J:** Symptomatic care and nitroglycerin in the management of anal fissure. *Journal of Gastrointestinal Surgery*: May 2002: 6: pp 278-80.

**McLeod RS, Smith L and the Evidence Based Reviews in Surgery Group:** Canadian Association of General Surgeons Evidence Based Reviews in Surgery. 1. *Canadian Journal of Surgery*: February 2002: 45: pp 18.

**McLeod RS, Wille-Jorgensen P:** What is evidence-based surgery? *Seminars in Colorectal Surgery*: March 2002: 13: pp 3.

**Park J, Betel D, Gryfe R, Michalickova K, Di Nicola N, Gallinger S, Hogue, CWV, Redston M:** Mutation profiling of mismatch repair-deficient colorectal cancers using an in silico genome scan to identify coding microsatellites. *Cancer Research*: March 2002: 62 (5): pp 1284-1288.

**Poritz LS, Blackstein M, Berk T, Gallinger S, McLeod RS, Cohen Z:** Extended follow-up of patients treated with cytotoxic chemotherapy for intra-abdominal desmoid tumors. *Diseases of the Colon and Rectum*: September 2001: 44(9): pp 1268-73.

**Rioux JD, Daly MJ, Silverberg MS, Lindblad K, Steinhart AH, Cohen Z, Delmonte T, KOcher K, Miller K, Guschwan S, Kulbokas EJ, O'Leary S, Winchester E, Dewar K, Green T, Stone V, Chow C, Cohen A, Langelier D, Lapointe G, Gaudet D, Faith J, Branco N, Bull SB, McLeod RS, Griffiths AM, Bitton:** Genetic Variation in the 5q31 cytokine gene clusters confers susceptibility to Crohn's Disease. *Nature Genetics*: October 2001: 29 (2): pp 223-8.

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**Szweras, M., Liu, D., Partridge, E.A., Pawling, J., Sukhu, B., Clokie, C., Jahnen-Dechent, W., Tenenbaum, H.C., Swallow, C.J., Grympas, M., Dennis, J.W:** Alpha 2HS-glycoprotein, a TGF-beta/BMP antagonist, regulates postnatal bone growth and remodeling. *Journal of Biological Chemistry*: March 2002: 277: pp 19991-7.

**Temple LFK, McLeod RS:** A meta-analysis comparing function outcome following straight coloanal anastomosis versus a colonic J pouch. *Seminars in Colorectal Surgery*: March 2002: 13: pp 62.

**Temple LK, McLeod RS, Gallinger S, Wright JG:** Essays on science and society. Defining disease in the genomics era. *Science*: August 2001: 293(5531): pp 807-8.

**Thompson-Fawcett MW, Marcus V, Redston M, Cohen Z, McLeod RS:** Risk of dysplasia in long-term ileal pouches and pouches with chronic dysplasia. *Gastroenterology*: August 2001: 121(2): pp 275-81.

**Wille-Jorgensen P, McLeod RS:** Evidence Based Surgery : Where and how to find and evaluate the correct evidence. *Seminars in Colorectal Surgery*: March 2002: 13: pp 10.

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

**Cohen Z:** Symposium on Inflammatory Bowel Disease at the Annual Meeting of the American Gastroenterological Association, San Francisco, California, May 2002. Disease modification in Inflammatory Bowel Disease.

**Cohen Z:** Maimonides Medical Centre, Brooklyn, New York, February 2002. Twenty years of Experience with the Pelvic Pouch Procedure: Lessons Learned.

**Gallinger S:** Canadian Oncology Societies, Montreal, Quebec, April 2002. Cancer Genetics: Current knowledge and future directions.

**Gallinger S:** Atlantic Canada Oncology Group, Cornerbrook, Newfoundland, February 2002. Clinical implications of molecular phenotypes in colorectal cancer.

**Gallinger S:** The 6th Toronto Sepsis Roundtable, Toronto, Ontario, October 2001. Genetics of malignancy.

**Gallinger S:** Niagara on The Lake Educational Sessions, Cosby Lecture, Niagara, Ontario, November 2001. Integration of molecular biology in the diagnosis and treatment of colorectal cancer.

**Gallinger S:** New Developments in Cancer Management, Toronto, Ontario, September 2001. Molecular genetics and screening for colorectal cancer.

- MacRae HM:** Canadian Society of Colon and Rectal Surgeons, Quebec City, Quebec, September 2001. Surveillance of IBD.
- MacRae HM:** 2001 Update in Minimally Invasive Surgery, Toronto, Ontario, November 2001. Teaching Laparoscopic Skills.
- MacRae HM:** 2001 Annual Update on Digestive Diseases, Toronto, Ontario, November 2001. Update on Laparoscopic Surgery in IBD.
- McLeod RS:** University of Puerto Rico, San Juan, PR, March 2002. (1) Outcome following surgery for ulcerative colitis. (2) Recurrence following surgery for Crohn's disease.
- McLeod RS:** Jornado Goiana de Coloproctologia, Goiana, Brazil, August 2001. 1. Surgery for Crohn's disease 2. Surgery for ulcerative colitis 3. Surgery for rectal cancer.
- McLeod RS:** The Association of Coloproctology of Great Britain and Ireland, Harrogate, UK, July 2001. 1. The British Journal of Surgery lecture - What is evidence based surgery? 2. Teaching colorectal surgery in Canada.
- McLeod RS:** American College of Surgery Clinical Congress, New Orleans, LA, October 2001. 1. Treatment for anorectal disease : What's proven, what's not? 2. Evidence based medicine.
- McLeod RS:** Hungarian Section of Coloproctology, Hortobagy - Mata, Hungary, March 2002. Assessing outcome in surgery.
- McLeod RS:** Cochrane Colorectal Cancer Group, Bispebjerg Hospital, Copenhagen, April 2002. Evidence Based Surgery.
- McLeod RS:** Canadian Surgery Forum, Quebec, PQ, September 2001. Is Crohn's disease a contraindication for restorative proctocolectomy?
- McLeod RS:** Editorial board of Diseases of the Colon and Rectum, New Orleans, LA, October 2001. Principles of clinical trials.
- McLeod RS:** IBD 5, Paris, France, November 2001. Quality of life following surgery for ulcerative colitis.
- McLeod RS:** World Congress of Gastroenterology, Bangkok, Thailand, February 2002. Surgery for Ulcerative Colitis.
- McLeod RS:** Ontario Association of Gastroenterology, Huntsville, ON, June 2002. The Best of DDW - Surgical Papers.
- Rosen IB:** North York General Hospital Department of Medicine, Toronto, Ontario, May 2002. Discovery and understanding of primary hyperparathyroidism.
- Rosen IB:** Toronto Medical History Club, Toronto, Ontario, November 2001. East and West.
- Rosen IB:** International Society of Surgery/ International Association of Endocrine Surgeons, Brussels, Belgium, August 2001. Thyroid cancer: A Canadian approach.
- Rosen IB:** International Society of Surgery/International Association of Endocrine Surgeons, Brussels, Belgium, August 2001. Thyroid cancer: which operation for which patient (panellist).
- Swallow CJ:** Ontario Cancer Institute Senior Investigators Seminar, Toronto, Ontario, May 2002. Ahsg is a TGF-B inhibitor that suppresses intestinal tumor progression.
- Swallow CJ:** Bringing Discovery to Life. Pharmacia Symposium on Colorectal Cancer, Toronto, Ontario, April 2002. Epidemiology and surgical management of colon cancer.

**Swallow CJ:** New Developments in Cancer Management. Princess Margaret Hospital Conference, Toronto, Ontario, September 2001. Multimodality treatment of rectal cancer.

**Swallow CJ:** Atlantic Canada Oncology Group 6th Annual Winter Symposium, Cornerbrook, Newfoundland, February 2002. Surgical Issues in Gastric Cancer.

**Swallow CJ:** Canadian Association of General Surgeons Symposium, Co-Chair, Quebec City, Quebec, September 2001. Unexpected Findings at Laparotomy.

**Swallow CJ:** Canadian Surgery Forum, CAGS Meeting, Quebec City, Quebec, September 2001. Unexpected findings at surgery, Co-chair.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

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).

Developing the critical appraisal skills of surgeons. *Helen M. MacRae, Robin McLeod, Glenn Regehr: The Physicians's Services Incorporated Foundation* (\$30,800 2001 - 2002).

Further studies of COX-2 inhibitors in mouse models of intestinal neoplasia. *Gallinger S: Merck Frosst Medical School Grant* (\$50,000 2001).

Gender differences in pain and analgesic response to kappa & mu opioids after surgery. *J. Katz, L. Gagliese, D. Snijdelaar, D. Stewart, H. MacRae, A. Taddio, A.N. Sandler: Medical Research Council of Canada* (\$92,052 2000 - 2003).

Gene chip microarray technology to identify genes controlling the predisposition and early development of human colorectal neoplasia. *Mark Redston, Steven Gallinger, S. Bull, J. Woodgett: National Cancer Institute of Canada - Terry Fox New Frontiers Initiative* (\$498,867 1999 - 2002).

Genetic Basis of Hyperparathyroidism-Jaw Tumor Syndrome (#1R01 CA75177-01A1). *Maurine R. Hobbs, Ph.D., Irving B. Rosen, M.D., Charles E. Jackson, M.D: National Institute of Health, Bethesda, Maryland* (\$484,085 1999 - 2002).

Genetic predisposition to colorectal cancer caused by weakly penetrant APC alleles. *Gallinger, S, M. Redston, J. Knight: National Cancer Institute of Canada* (\$400,000 2000 - 2003).

Genetics of pancreatic adenocarcinoma. *Gallinger S, Redston M, Narod S, Ozcelik H, Brunet J-S: National Cancer Institute of Canada* (\$448,000 1999 - 2002).

How accurate is self-assessment of technical skills, and does self-assessment improve by evaluating peers' performance? *MacRae H, Ward M, Evans J, Schlachta C, Mammazza J, Reznick R, Regehr G: Association for Surgical Education* (\$34,059 2001 - 2002).

Intimidation and harassment and the surgical environment: What is it and what does it do to the educational atmosphere. *Musselman L, MacRae HM, Reznick R, Lingard L: The Physicians' Services Incorporated Foundation* (\$15,000 2002 - 2003).

Intimidation and harassment and the surgical environment: What is it and what does it do to the educational atmosphere? *Musselman L, MacRae HM, Reznick R, Lingard L: CIHR-ACMC* (\$2,200 2002).

Modulation of immunosuppression and hepatic fibrogenesis by fetuin, an endogenous TGF-beta 1 antagonist. *Swallow C: Physicians' Services Incorporated Foundation* (\$120,000 2000 - 2002).

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: Crohn's and Colitis Foundation of Canada - DECLINED* (\$70,000 2001 - 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 - 2003).

Needs assessment: Concordance of perceived and objectively assessed learning needs. *Ward M, MacRae HM, Richard R, Niall B: CIHR-ACMC Committee on Research in Medical Education* (\$18,094 2001 - 2002).

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

Randomized Controlled Trial to Compare Stapled Functional End-to-End Anastomosis With Sutured End-to-End Anastomosis Following Resection for Primary or Recurrent Ileocolic 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, Wolff B, Schoetz D, Strong S, Fleshman J: Ethicon Endosuture Inc.* (\$30,000 2000 - 2001).

Resident-self assessment of technical performance and knowledge. *MacRae HM, Ward M, Regehr G, Rotstein L, Dackiw A: The Physicians' Services Incorporated Foundation* (\$14,500 2002).

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

Tumor microsatellite instability, chemosensitivity and patient outcome. A molecular reanalysis of randomized trials of adjuvant 5FU/leucovorin in colorectal cancer. *Gallinger, S., M. Cotterchio, M. Moore, M. Redston, C. Ribic: National Cancer Institute of Canada* (\$210,000 2001 - 2003).

Vioxx in FAP. *Gallinger, S: Merck Frosst (Awarded \$8,000 per case)* (\$8,000 2001 - 2002).

## **HONOURS RECEIVED**

**McLeod RS:** A.B.R. Thompson - C.N. Williams Award for Best Published Paper 2001, Canadian Journal of Gastroenterology, January 2002.

**McLeod RS:** Best Paper Award Canadian Society of Colon and Rectal Surgeons (with Kennedy ED, Rothwell DN, Cohen Z), June 2002.

**Rosen IB:** President, Toronto Medical History Club, September 2001.

## **DIVISION OF ORTHOPAEDIC SURGERY**

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

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

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

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

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

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

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

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

## **PUBLICATIONS**

**Aubin PP, Cheah HK, Davis AM, Gross AE:** Long-term followup of fresh femoral osteochondral allografts for posttraumatic knee defects. *Clinical Orthopaedics and Related Research*: October 2001: No. 391S: pp S318-S327.

**Cheung CC, Kandel RA, Bell RS, Mathews RE, Ghazarian DMD:** Extraskelatal Ewing sarcoma in a 77-year old woman. *Archives of Pathology and Laboratory Medicine*: October 2001: 125: pp 1358-1360.

**Clatworthy MG, Gross AE:** The allograft prosthetic composite: When and how. *Orthopaedics*: September 2001: 24, No. 9: pp 897-898.

**Gerrand CH, Bell RS, Griffin AM, Wunder JS:** Instability after major tumour resection: Prevention and treatment. *Orthopaedic Clinics of North America*: October 2002: 32 (4): pp 697-710.

**Gerrand CH, Wunder JS, Kandel RA, O'Sullivan B, Catton CN, Bell RS, Griffin AM, Davis AM:** Classification of positive margins after resection of extremity soft tissue sarcoma of the limb predicts the risk of local recurrence. *Journal of Bone and Joint Surgery (British)*: November 2001: 83 (8): pp 1149-1155.

**Gokgoz M, Wunder JS, Mousses S, Eskandarian S, Bell RS, Andrulis IL:** Comparison of p53 mutations in patients with localized osteosarcoma and metastatic osteosarcoma. *Cancer*. 2001: October 2001: 92(8): pp 2181-9.

**Gross AE:** Revision arthroplasty of the femur. In: *Revisionsendoprothetik des Huftgelenkes - Schaftrekonstruktion und perioperatives Management* (Perka C, Zippel H, eds). Einhorn-Press Verlag GmbH, Reinbek Alle Rechte vorbehalten, EU: 2001: pp 75-87.

**Gross AE, Aubin P, Cheah HK, Davis AM, Ghazavi MT:** A fresh osteochondral allograft alternative. *The Journal of Arthroplasty*: June 2002: 17, No. 4: pp 50-53.

**Gross AE, Blackley H, Wong P, Saleh K, Woodgate I:** Part II: The role of allografts in revision arthroplast of the hip. *Journal of Bone and Joint Surgery (American)*: April 2002: 84A, No. 4: pp 655-667.

**Gross AE, Blackley H, Wong P, Saleh K, Woodgate I:** The role of allografts in revision arthroplasty of the hip. *Instructional Course Lectures* (Beaty JH, ed). American Academy of Orthopaedic Surgeons, Rosemont, IL: 2002: pp 103-113.

**Gross AE, Saleh KJ, Wong P:** Acetabular revision using grafts and cages. *The American Journal of Orthopedics*: April 2002: XXX1, No4: pp 213-215.

**Gross AE, Wong P, Saleh KJ:** Don't throw away the ring. *The Journal of Arthroplasty*: June 2002: 17, No. 4: pp 162-166.

**Haddad FS, Duncan CP, Berry DJ, Lewallen DG, Gross AE, Chandler HP:** Periprosthetic femoral fractures around well-fixed implants: Use of cortical onlay allografts with or without a plate. *Journal of Bone and Joint Surgery (American)*: June 2002: 84-A, No 6: pp 945-950.

**Hopyan S, Gokgoz N, Poon R, Gensure RC, Yu C, Cole WG, Bell RS, Juppner H, Andrulis IL, Wunder JS, Alman BA:** A mutant PTH/PTHrP type I receptor in enchondromatosis. *Nature Genetics*: March 2002: 30(3): pp 306-310.



**Malo M, Davis AM, Wunder JS, Masri BA, Bell RS, Isler MH, Turcotte RE:** Functional evaluation in distal femoral endoprosthesis replacement for bone sarcoma. *Clinical Orthopaedics*: August 2001: 389: pp 173-180.

**McGoveran BM, Pritzker KPH, Shasha N, Price J, Gross AE:** Long-term chondrocyte viability in a fresh osteochondral allograft. *The Journal of Knee Surgery*: May 2002: 15, No. 2: pp 97-100.

**Paszat L, O'Sullivan B, Bell RS, Bramwell V, Groome P, MacKillop W, Bartfay E, Holowaty E:** Processes and outcomes of care for soft tissue sarcoma of the extremity. *Sarcoma*: June 2001: 6: pp 19-26.

**Robinson P, White LM, Sundaram M, Kandel R, Wunder J, McDonald DJ, Janney C, Bell RS:** Periosteal chondroid tumors: radiologic evaluation with pathologic correlation. *AJR Am J Roentgenol*: November 2001: 177 (5): pp 1183-8.

**Saleh KJ, Holtzman J, Gafni A, Saleh L, Davis A, Resig Sc, Gross AE:** Reliability and intraoperative validity of preoperative assessment of standardized plain radiographs in predicting bone loss at revision hip surgery. *Journal of Bone and Joint Surgery*: July 2001: 83-A: pp 1040-1046.

**Saleh KJ, Kassim R, Gross AE:** Bone assessment and reconstruction in revision hip surgery. *The American Journal of Orthopaedics*: April 2002: XXX1, No4: pp 183-185.

**Saleh KJ, Macaulay A, Radosevich DM, Clark CR, Engh G, Gross AE, Haas S, Johanson NA, Krackow KA, Laskin R, Norman G, Rand JA, Saleh L, Scuderi G, Sculco T, Windsor R:** The knee society index of severity for failed total knee arthroplasty. *Clinical Orthopaedics and Related Research*: November 2001: 392: pp 166-173.

**Turcotte RE, Wunder JS, Isler MH, Bell RS, Schachar N, Masri BA, Moreau G, Davis AM:** Giant cell tumour of long bone: A Canadian Sarcoma Group study. *Clinical Orthopaedics*: April 2002: 397: pp 248-258.

**Wai E, Davis AM, Griffin AM, Wunder JS, Bell RS:** Pathologic fractures of the proximal femur secondary to benign bone tumors. *Clinical Orthopaedics and Related Research*: July 2001: 393: pp 279-286.

**Weinmann C, Gross AE, Agnidis Z, Ross H:** Integrity of proximal femoral allografts: a serial radiographic analysis. *Hip International*: July 2001: 11, No. 3: pp 134-142.

**Wong PKC, King A, Hutchison CR, Gross AE:** Cortical strut allograft in revision total hip arthroplasty. *Hip International*: December 2001: 11, No. 4: pp 186-190.

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

**Bell RS:** Surgical Oncology Network of Cancer Care Nova Scotia, Halifax, Nova Scotia, December 2001. Biologic targets for sarcoma therapy.

**Bell RS:** National Cancer Institute of Canada, Canadian Sarcoma Group, Montreal, Quebec, April 2002. IHRT in Musculoskeletal Oncology.

**Bell RS:** Surgical Oncology Network of Cancer Care Nova Scotia, Halifax, Nova Scotia, December 2001. Modifying outcomes in soft tissue sarcoma management: Radiation/surgery morbidity.

**Bell RS:** National Cancer Institute, Therapy Evaluation Program, Bethesda, Maryland, June 2002. Sarcoma State of The Science: Session Moderator - Improving therapy and reducing morbidity of primary therapy for localized disease.

**Boynton EL:** Prof. R. Windhager, Institute for Histology and Embryology, University of Vienna, Vienna, Austria, September 2001. "The Role of Macrophage in Periprosthetic Bone Loss".

**Gross AE:** Zimmer Hip Course, Taipei, Taiwan, April 2002. Classification and treatment guide - A revision arthroplasty of the femur (2) Revision arthroplasty of the acetabulum (3) Classification and treatment guide - the difficult primary hip (4) Total hip replacement for dysplasia.

**Gross AE:** Zimmer, Queenstown, New Zealand, October 2001. Guest Speaker, Combined New Zealand and Australian Orthopaedic Associations Scientific Meeting.

**Gross AE:** International Symposium, Revision Surgery in Total Joint Replacement, Florence, Italy, April 2002. Guidelines in the treatment of acetabular revision with restoration of bone stock (2) The treatment of femoral revision with structural allografts.

**Gross AE:** 31st Annual Hip Course, A New Era in Total Hip Arthroplasty: The Era of the Big Head, Cambridge, MA, October 2001. Invited Lecturer (1) ZMR stems (2) When, where and how to allograft the acetabulum.

**Gross AE:** Zimmer, Birmingham, Alabama, September 2001. Invited Lecturer to Grand Rounds at the University of Alabama, Department of Orthopaedics.

**Gross AE:** The University of Manchester Sesquicentennial “Acrylic Bone Cement in the New Millennium” A 40th Anniversary Symposium, Manchester, England, May 2002. Loosening: Role of cement in revision arthroplasty of the hip.

**Gross AE:** Invited Lecturer, International Hip Symposium, Primary & Revision Hip Surgery, State of the Art & Future Developments, Tampere, Finland, November 2001. Observation of difficult primary THR (2) Use of ZMR femoral components in complex revision THR (3) Revision of acetabulum with restoration of bone stock.

**Gross AE:** Invited Lecturer, International Hip Symposium 2001, Primary & Revision Hip Surgery, State of the Art & Future Developments, Aarhus, Denmark, November 2001. Observation of the difficult primary THA (2) Proximal femoral allograft for reconstruction of bone stock in revision arthroplasty of the hip (3) Revision of acetabulum with restoration of bone stock.

**Gross AE:** Invited Lecturer, OLVG International Hip Symposium 2001, Primary & Revision Hip Surgery, State of the Art & Future Developments, Amsterdam, The Netherlands, November 2001. Observation of the difficult primary THR (2) Use of ZMR femoral components in complex revision THR (3) Revision of acetabulum with restoration of bone stock.

**Gross AE:** Special Lecturer at 2002 New Trends of Joint Reconstructive Surgery Symposium, Beijing, China, April 2002. Revision THA: the management of bone loss on acetabular side (2) Revision THA: the management of bone loss on femoral side (3) Management of periprosthetic fracture after TKA (4) Revision TKA: bone loss management (5) Fresh osteochondral allografts for cartilage defect.

**Gross AE:** Invited Lecturer, Wrightington International Arthroplasty Symposium, Manchester, England, June 2002. Structural grafting (2) Osteochondral grafting.

**Gross AE:** Invited Lecturer, XXXIII Congresso Brasileiro de Ortopedia e Traumatologia, Belo Horizonte, October 2001. The difficult primary hip replacement (2) Osteotomies about the knee for osteoarthritis (3) Revision arthroplasty of the femur with restoration of bone stock (4) Total hip replacement for dysplasia (5) Revision arthroplasty of the acetabulum with restoration of bone stock.

**Gross AE:** What's New In THA 2002 - Zimmer Japan, Tokyo, Japan, June 2002. The difficult primary hip replacement - dysplasia (2) Cementless modular femoral revision: ZMR design rationale (3) Acetabular deficiencies - classifications and treatment options.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

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. *Boynton EL: The Arthritis Society (\$45,000 1999 - 2003).*

Molecular pathology of cartilage neoplasia: The role of parathyroid hormone related protein and Indian hedgehog. *Jay S. Wunder, Benjamin A. Alman: Medical Research Council of Canada (\$103,774 2000 - 2003).*

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 2002 - 2003).*

The role of the macrophage in polyethylene mediated total joint replacement failure. *Boynton EL: The Arthritis Society (\$80,377 1999 - 2003).*

## HONOURS RECEIVED

**Backstein D:** Dean's Excellence Fund awarded for project "Effectiveness of video feedback in the development of technical skills in surgical residents," February 2002.

**Gross AE:** The Canadian Orthopaedic Association President's Award for Excellence in Recognition of Outstanding Contributions to Orthopaedic Surgery, June 2002.

## **DIVISION OF PLASTIC SURGERY**

**Dr. E. Beausang - Assistant Professor**

**Dr. N.H. McKee - Professor**

### **PUBLICATIONS**

**Barden W, Clarke HM, Young NL, McKee N, Regehr G:** Effectiveness of telehealth for teaching specialized assessment techniques to physical therapists. Proceedings of the 8th Congress of the International Federation of Societies for Surgery of the Hand (Ege R, ed). THK, Ankara: 2001: pp 116-122.

**Martin DC, Medri MK, Chow RS, Leekam RN, Agur AM, McKee NH:** Comparing human skeletal muscle architectural parameters of cadavers with in vivo ultrasonographic measurements. Journal of Anatomy: October 2001: 429: pp 434.

**Tupling R, Green H, Senisterra G, Lepock J, McKee N:** Effects of ischemia on sarcoplasmic reticulum Ca<sup>2+</sup> uptake and Ca<sup>2+</sup> release in rat skeletal muscle. American Journal of Physiology- Endocrinol Metab: August 2001: 281: pp E224-E232.

**Tupling R, Green H, Senisterra G, Lepock J, McKee N:** Ischemia-induced structural change in SR Ca<sup>2+</sup>-ATPase is associated with reduced enzyme activity in rat muscle. American Journal of Physiology - Regulatory Integrative Comp Physiol: November 2001: 281: pp R1681-1688.

**Tupling R, Green H, Senisterra G, Lepock J, McKee N:** Effects of 4-h ischemia and 1-h reperfusion on rat muscle sarcoplasmic reticulum function. American Journal of Physiology -Endocrinol Metab: October 2001: 281: pp E867-877.

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

**McKee NH:** CSIS, Ottawa, September 2001. "Upper Extremity Repetitive Strain Injuries".

**McKee NH:** CSIS, Toronto, Ontario, February 2002. Taking care of hands and arms in a busy work place.

### **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* (\$27,201 2000 - 2002).

Muscle architecture in children with spastic diplegia and Duchenne muscular dystrophy. *McKee NH, Agur AM, Biggar D, Fiume E: Hospital for Sick Children Foundation* (\$26,412 2000 - 2002).

## 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

**Kamal K, Zini A, Jarvi K:** Bacteriospermia in infertile men. In: *Andrology in the 21st Century* (B. Robaire, H. Chemes and C.R. Morales, eds). NJ: 2001: pp 485-89.

**Zini A, Kamal KM, Phang D,:** Free thiols in human spermatozoa: correlation with sperm DNA integrity. *Urology*: July 2001: 58: pp 80-84.

**Zini A, Kamal KM, Phang D, Willis J, Jarvi K:** Biological variability of sperm DNA denaturation in infertile men. *Urology*: August 2001: 58: pp 258-61.

**Zini A, Mak V:** Post-mortem sperm retrieval is not a urologist's duty. *Contemporary Urology*: July 2001: 13: pp 36-49.

**Zini A, O'Bryan MK, Schlegel PN:** Nitric oxide synthase (NAS) activity in human seminal plasma. *Urology*: July 2001: 58: pp 85-89.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Jarvi K:** ISIS Regional Fertility Centre, Mississauga, ON, November 2001. Cure for Male Infertility; Do We Really Understand What We Are Doing?

**Jarvi K:** Whistler - Chateau Whistler, BC, October 2001. Role of Surgery in Treatment of Male Infertility.

**Jarvi K:** Canadian Fertility and Andrology Society, Whistler, BC, October 2001. Since the Advent of ICSI, Surgery No Longer Has a Place in the Treatment of Male Infertility.

**Jarvi K:** ASRM, Orlando, Florida, October 2001. Sperm Retrieval for CF Male.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

A microbiological and epidemiological study on prostatitis. *Dr. C. Nickel, Dr. K. Jarvi Dr. Marc Mittelman: National Institute of Health* (\$238,000 1998 - 2003).

Molecular Basis of the CF Phenotype and it's Modification. *Lap-Chee Tsui, Peter Durie, Keith Jarvi, Neil Sweezey, Joanne Rommens, Christine Bear, Elizabeth Tullis, Mary Corey, Richard Rozmahel: National Institute of Health* (\$652,035 1999 - 2004).

## St. Joseph's Health Centre

### **Dr. L. C. Smith – Surgeon-in-Chief**



The year 2001-02 was very important for the Department of Surgery at St. Joseph's Health Centre. A decision was made to focus the department on minimally invasive surgery and on surgical education. As part of the decision to focus on MIS, money was set aside to build three new state of the art, surgical suites. These suites were built with new technology that would facilitate doing advanced procedures and be able to tele-conference them to sites, both inside and outside the hospital. They are the first suites built in Canada with full digital technology. It is felt that these suites will be important tools for education and recruitment of new surgeons in the future.

A new Surgeon-in-Chief was chosen in December of 2001 and Dr. Lloyd Smith took over the position in April of 2002. Dr. John Wait was the interim Chief of Surgery and did an excellent job in steering the department during the search process. Dr. Smith has a focus in minimally invasive surgery and surgical education.

Dr. Donald Jones, the former Surgeon-in-Chief, left the Health Centre in June of 2001, to become the Chief of Thoracic Oncology in Hackensack, New Jersey. The Department of Surgery wishes to thank Dr. Jones for his hard work as Surgeon-in-Chief.

The Service of Orthopaedic Surgery recruited Dr. Amr ElMaraghy in July of 2001. Dr. ElMaraghy brings to St. Joseph's Health Centre an expertise in upper extremity surgery. He is also trained in minimally invasive surgery of the upper extremity.

The Department of Surgery is looking forward to 2002-03, to further develop our minimally invasive surgical program and its recruitment.





### **Division of General Surgery**

Dr. A. Harmantas - Division Head  
Dr. M. Baida  
Dr. C. Compeau  
Dr. R. Hart  
Dr. D. Lindsay  
Dr. L. Smith

### **Division of Orthopaedic Surgery**

Dr. M. Kliman - Division Head  
Dr. A. ElMaraghy  
Dr. M. Roscoe  
Dr. G. Vincent  
Dr. M. Wood

### **Division of Plastic Surgery**

Dr. R. Levine - Division Head  
Dr. C. Fielding  
Dr. R. Knowlton  
Dr. L. Kasrai

### **Division of Thoracic Surgery**

Dr. E. Spratt - Division Head  
Dr. C. Compeau

### **Division of Urology**

Dr. A. Marcuzzi - Division Head  
Dr. V. Bojanowski  
Dr. U. Jain  
Dr. A. McLean  
Dr. J. Wait

### **Division of Vascular Surgery**

Dr. D. Wooster - Division Head  
Dr. R. Louch  
Dr. D. Szalay

### **RESEARCH AND INVESTIGATIONS**

Carotid endarterectomy health services research program. **Tu JV**, Kucey DS, Anderson G, Perry M, Wooster DL: *Heart and Stroke Foundation of Ontario* (\$180,000 1999 - 2003).

## St. Michael's Hospital

### **Dr. E. Poulin – Surgeon-in-Chief**



This was a year of consolidation at St. Michael's Hospital following the transfer of Programs and Services from the Wellesley Central Hospital. Six Programs define the program configuration at St. Michael's Hospital: Heart, Trauma and Neurosurgery, Diabetes; Inner City Health; Mobility, and Minimal Access Therapeutics (MAT). Two members of the Department have Program leadership positions as Medical Directors of Programs. Dr. Earl Bogoch was recently selected as the Medical Director of the Mobility Program (Orthopaedic Surgery, Plastic Surgery, Rheumatology, Neurology) and Dr. Joseph Mamazza is the Director of the MAT Program (Minimally Invasive Surgery and Therapeutic Endoscopy, General Surgery and Gastroenterology).

Two new recruits were admitted to the Department this year. Dr. Najma Ahmed is a Trauma-Critical Care Surgeon. She is a graduate from McGill University in General Surgery, has a Ph.D. in Physiology, a Fellowship in Endocrine Surgery from Detroit, and a Trauma-Critical Care Fellowship from the University of Toronto. Dr. Kenneth Pace trained in Urology in Toronto, obtained his Masters in Clinical Epidemiology from McMaster, along with an Endurology Fellowship from St. Michael's Hospital. He then did a Minimally Invasive Fellowship with St. Michael's MIS Team and a rotation in Paris to learn Laparoscopic Prostaectomy.



Drs. John Honey and Lee Errett were both promoted to Associate Professor rank and Dr. Christopher Schlachta to Assistant Professor. Three colleagues received Teaching Awards from the Fitzgerald Academy: Dr. James Mahoney won a Master Teacher Award; Dr. Christopher Schlachta won the Clerkship Teacher of the Year Award and Dr. Robert Stewart won the Clerkship Teacher for Urology. Dr. Richard Perrin has received the Distinguished Service Award of the Congress of Neurological Surgeons, 51<sup>st</sup> Annual Meeting. Again, the MIS Team organized an Update in Minimally Invasive Surgery with over 130 participants. The Division of Cardiac Surgery hosted the 6<sup>th</sup> Annual Terrence Donnelly Cardiac Residents' Research Day, which was attended by every Cardiac and Vascular Resident from across Canada. Dr. James Mahoney, co-directed the 18<sup>th</sup> Annual Upper Extremity Update, which targeted Orthopaedic, Plastic and General Surgeons, who are interested in the most current methods of Upper Extremity reconstruction. The 5<sup>th</sup> Annual Foot and Ankle Symposium directed by Dr. Timothy Daniels was a great success this year with 286 registrants from across Canada, United States and South America in attendance.

A number of surgeons obtained new research grants or renewal funding this year. Dr. Earl Bogoch, a CIHR Operating Grant; Dr. Michael McKee, an OTA Grant; Dr. Robert Stewart, a Prostate Cancer Research Foundation of Canada Grant; Drs. Honey, Pace, Stewart, Schlachta, Mamazza and Poulin, a Kidney Foundation of Canada Grant and Dr. Christopher Schlachta, a PSI Grant.

Bricks and mortar are always part of change and this year is no different. The Victoria Wing has been renamed the Cardinal Carter Wing. The four new floors in the Cardinal Carter Wing were officially opened in the Fall. The 16<sup>th</sup> Floor is home to the Minimal Access Therapeutics Program (Minimally Invasive Surgery and Therapeutic Endoscopy). This comprehensive facility houses an eight-room endoscopy unit, patient ward, for Gastroenterology and General Surgery patients, a Learning Centre, offices for all 11 Gastroenterologists and three MIS Surgeons as well as offices for research fellows. The five new operating rooms of the Ambulatory Centre are being constructed on the same floor as the 17 Core Operating rooms and are scheduled for completion in March 2003.

On the horizon, there is even more change. The Foundation has surpassed its \$40 Million Capital and Research fundraising goal and the Campaign still has some time to go. There is active planning for a Research Building and St. Michael's Hospital is within a year of initiating a new strategic planning process.



## DIVISION OF CARDIAC SURGERY

**Dr. D. Bonneau - Associate Professor**

**Dr. D. Courtman – Assistant Professor**

**Dr. L.E. Errett - Associate Professor (Division Head)**

**Dr. D.A. Latter - Associate Professor**

**Dr. Y. LeClerc - Assistant Professor**

**Dr. J.K. Yao – Assistant Professor**

## PUBLICATIONS

**Bach DS, Goldbach M, Sakwa MP, Petracek M, Errett LE, Mohr F:** Hemodynamics and early performance of the St. Jude Medical Regent aortic valve prosthesis. *Journal of Heart Valve Disease*: August 2001; 10: pp 436-442.

**Raanani E, Latter D, Errett LE, Bonneau D, Leclerc Y, Salasidis G:** The use of “Bioglue” in aortic surgical repair. *The Annals of Thoracic Surgery*: October 2001; 72(2): pp 638-640.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Errett LE:** Bayer Inc., Key West, Florida USA, May 2002. Nutritional supplementation with MyoVive repletes essential cardiac myocyte nutrients and reduces left ventricular size. “The Key West Meeting” Outcomes 2002; Poster presentation.

**Errett LE:** Young Cardiac Surgeons of Canada sponsored by Edwards Lifesciences, Mexican Riviera aboard the The Star Princess, March 2002. Radial Y Graft & Chairman of the event.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

Arterial anastomotic remodeling. *Courtman D, Petrasek P: Heart and Stroke Foundation* (\$136,000 2000 - 2002).

Effect of Vasocare™ on regression of atherosclerosis: Phase II: The development of LDL receptor knock-out mouse and Watanabe heritable hyperlipidemic rabbit models for the investigation of a novel immune modulating therapy. *Courtman D: Vasogen Incorporated* (\$205,678 1999 - 2001).

Gene therapy: to assess the efficacy and safety of CI-1023 delivered through minimally invasive surgery versus maximum medical treatment in patients with severe angina, advanced coronary artery disease, and no options for revascularization. *Stewart D, Errett L, Latter D: Parke-Davis Pharmaceutical Research* (\$350,000 1999 - 2002).

Ischemia management with Accupril post bypass graft via inhibition of converting enzyme (IMAGINE): An evaluation of the effect of 12 to approximately 24 months treatment with Quinapril 40 mg QD post CABG surgery on ischemic events. *Moe, G, Latter D, Fitchett D, Errett L: Parke-Davis Pharmaceutical Research* (\$200,000 2000 - 2002).

Molecular Epidemiology of aneurysm. *Lossing A, Errett L: Cellex-C* (\$1,000,000 1999 - 2002).

Myovive Clinical Study: Multi-centre Randomized Trial. *Errett L, Peniston C, Quantz M, Fremes S: Numico* (\$300,000 2001 - 2003).

Octopus beating heart: the effects of cardiopulmonary bypass versus beating heart. *Errett Lee, Bonneau D, Latter D, Salasidis G, Leclerc Y: Medtronic Canada* (\$80,000 2001 - 2002).

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 (Division Head)**

**Dr. D. Currie – Associate Professor**

**Dr. J. Koo - Associate Professor**

**Dr. T.S. Lau – Lecturer**

**Dr. L.J. Mahoney – Associate Professor**

**Dr. J. Mamazza - Assistant Professor**

**Dr. R.A. Mustard - Assistant Professor**

**Dr. E.C. Poulin - Professor**

**Dr. C.M. Schlachta - Lecturer**

## **PUBLICATIONS**

**Bohnen J:** Antibiotics and infections in hernias. Audio-Digest General Surgery: October 2001: 48: pp 20.

**Cadeddu MO, Schlachta CM, Mamazza J, Seshadri PA, Poulin EC:** Trocar Site Hernia after Laparoscopic Procedures. Canadian Journal of Surgery: February 2002: 45 (1): pp 9-10.

**Chiasson PM, Pace DE, Mustard RA, Mamazza J, Poulin EC, Schlachta CM:** “Needlescopic” sigmoid resection. Surgical Endoscopy: April 2002: 16 (4): pp 714.

**Chiasson PM, Pace DE, Schlachta CM, Mamazza J, Poulin EC:** Minimally invasive surgery training in Canada: A survey of General Surgery Program Directors. Annals of the Royal College of Physicians and Surgeons: June 2002: 35: pp 145-148.

**Fry DE, Bohnen JMA, Fink MP, Solomkin JS:** Intraabdominal Infections: Current Controversies and Debates. Medical Crossfire: November 2001: 2: pp 15-23.

**J. Ali, R, Adam, J. Williams, H. Bedaysie, I. Pierre, D. Josa, J. Winn:** Teaching effectiveness of the Trauma Evaluation and Management (TEAM) module for senior medical students. American Association for the Surgery: September 2001: Abstract presentation.

**Lafreniere R, Bohnen JMA, Pasioka J, Spry CC:** Infection control in the operating room: Current practices or sacred cows. Journal of the American College of Surgeons: October 2001: 193:4: pp 347-353.

**Mamazza J, Poulin EC, Seshadri P, Schlachta CM, Cadeddu M:** Needlescopic surgery: A logical evolutionary step from conventional laparoscopic surgery. Surgical Endosc: October 2001: 15(10): pp 1208-1212.

**Othman NH, Ezzat S, Kovacs K, Horvath E, Poulin E, Smyth HS, Asa SL:** Growth hormone-releasing hormone (GHRH) and the GHRH receptor (GHRH-R) in ectopic acromegaly. Clinical Endocrinology: July 2001: 55: pp 135-140.

**Goodwin P, Ennis M, Pritchard KI, Trudeau MER, Koo J:** Fasting insulin and outcome in early stage breast cancer: Results of a prospective cohort study. Journal of Clinical Oncology: January 2002: 20: pp 42-51.

**Pace DE, Chiasson PM, Schlachta CM, Mamazza J, Cadeddu MO, Poulin EC:** Minimally invasive adrenalectomy for pheochromocytoma during pregnancy. Surg Laparosc Endosc Percutan Tech: April 2002: 12(2): pp 122-125.

**Pace DE, Chiasson PM, Schlachta CM, Mamazza J, Poulin EC:** Laparoscopic splenectomy: Does the training of minimally invasive surgical fellows affect outcomes? Surgical Endoscopy: June 2002: 16 (6): pp 954-6.

**Pace DE, Chiasson PM, Schlachta CM, Poulin EC, Mamazza J:** Needlescopic fundoplication: A case-controlled study. Surgical Endoscopy: April 2002: 16(4): pp 578-580.

**PM Chiasson, DE Pace, RA Mustard, J Mamazza, EC Poulin, CM Schlachta:** “Needlescopic” sigmoid resection: a case study. Surgical Endoscopy: February 2002: 16: pp 715-716.

**Poulin EC:** Fast forward... The Canadian Surgery Forum, Editorial. Canadian Journal of Surgery: August 2001: 44: pp 250-253.

**Poulin EC, Schlachta CM, Gregoire R, Seshadri PA, Cadeddu MO, Mamazza J:** Local Recurrence and Survival after Laparoscopic Mesorectal Resection for Rectal Adenocarcinoma. Surgical Endoscopy: June 2002: 16 (6): pp 989-95.

**Poulin EC, Schlachta CM, Mamazza J:** Laparoscopic Splenectomy. In: ACS Surgery, Principles and Practice (Wilmore DW, Cheung LY, Harken AH, Holcroft JW, Meakins JL, Soper NJ, eds). WebMD Corporation, New York: 2002: pp 787-813.

**Seshadri PA, Mamazza J, Poulin EC, Schlachta CM:** Does a laparoscopic approach to total abdominal colectomy and proctocolectomy offer advantages? Surg Endosc-Ultras: August 2001: 15(8): pp 837-842.

**Seshadri PA, Mamazza J, Poulin EC, Schlachta CM:** Laparoscopic colorectal resection in octogenarians. Surgical Endoscopy: August 2001: 15(8): pp 802-805.

**Seshadri PA, Poulin EC, Schlachta CM, Cadeddu MO, Pace DE, Mamazza J:** Transperitoneal laparoscopic nephrectomy for giant polycystic kidney. A case control study. Urology: July 2001: 58(1): pp 23-27.

**Wexner SD, Baeten C, Bailey R, Bakka A, Belin B, Belliveau P, Berg E, Buie D, Burnstein MJ, et al:** Long term efficacy of dynamic graciloplasty for fecal incontinence. Diseases of the Colon and Rectum: June 2002: 45: pp 808-818.

#### INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Ali J:** University of the West Indies, Trinidad & Tobago, January 2002. Trauma Evaluation And Management (TEAM) program.

**Ali J:** West Indies, Grenada, January 2002. Trauma Evaluation And Management (TEAM) program.

**Bohnen JMA:** Medical Error Symposium, Halifax, Nova Scotia, August 2001. Error in Surgery.

**Bohnen JMA:** Annual Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, Illinois, December 2001. Meet The Experts: Surgical Infections.

**Bohnen JMA:** Ontario Association of Gastroenterology, Niagara-on-the-Lake, Ontario, October 2001. Surgical Infections: prevention and treatment.

**Burnstein MJ:** Canadian Surgery Forum, Quebec City, Quebec, September 2001. Colonic Crohn's Disease - Is Segmental Resection Appropriate?

**Burnstein MJ:** Canadian Surgery Forum, Quebec City, Quebec, September 2001. Moderator - Complications of Colorectal Surgery.

**Poulin EC:** Les journées chirurgicales de l'Université Laval, Quebec City, Quebec, November 2001. Conference Vezina. Comparison entre les systèmes de santé du Québec et de l'Ontario.

**Poulin EC:** Les journées chirurgicales de l'Université Laval, Quebec City, Quebec, November 2001. Controverses en chirurgie laparoscopique du colon et du rectum.

**Poulin EC:** Les journées chirurgicales de l'Université Laval, Quebec City, Quebec, November 2001. Membre du panel. Discussion de cas.

**Poulin EC:** SAGES. 8th World Congress of Endoscopic Surgery, New York, NY, USA, March 2002. Minimally Edited Video Session. Laparoscopic Splenectomy.

**Poulin EC:** Georgian Bay Gut Club, Barrie, Ontario, November 2001. Why does laparoscopic antireflux surgery fail?

**Schlachta CM:** Canadian Association of General Surgeons, Quebec City, September 2001. Information technology in minimal access surgery.

**Schlachta CM:** General Surgery Grand Rounds, Dalhousie University, Halifax, Nova Scotia, October 2001. Laparoscopic Colon and Rectal Surgery.

**Schlachta CM:** Canadian Association of General Surgeons, Quebec City, September 2001. Modern management of acute cholecystitis.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

A randomized phase III clinical trial to compare sentinel node resection to conventional axillary dissection in clinically node negative breast cancer patients. *Dr. J. Koo, Dr. R. Haq, Dr. D. Bell, Dr. D. N. Greyson, Dr. B. Gray: NSASP NCI (\$45,578 2001 - 2002).*

How accurate is self-assessment of technical skill and does it improve with review of peer performance? *MacRae H, Ward M, Evans J, Schlachta CM, Mamazza J, Reznick R, Regehr G: National Board of Medical Examiners (\$37,055 2001 - 2002).*

Laparoscopic vs open donor nephrectomy: A prospective cohort study of donor and graft outcomes. *Honey RJ, Pace, KT, Stewart RJ, Mamazza J, Poulin EC, Schlachta CM, Zaltzman J, McFarlane P, Prasad R: Kidney Foundation of Canada, Biomedical Research Grant (\$46,987 2001 - 2002).*

Laparoscopic vs. open donor nephrectomy a prospective cohort study of donor and graft outcomes. *Honey RJ, Pace K, Mamazza J, Schlachta CM, Stewart R, Saltzman J: Kidney Foundation of Canada (\$93,958 2001 - 2003).*

Laparoscopic vs. open donor nephrectomy a prospective cohort study of donor and graft outcomes. *Kenneth Pace, Honey RJ, Stewart RJ, Mamazza J, Poulin EC, Schlachta CM, Zaltzman J, McFarlane P, Prasad R: Kidney Foundation of Canada, Biomedical Research Grant (\$93,958 2001 - 2003).*

NSABP B-32: A randomized, phase III clinical trial to compare sentinel node resection to conventional axillary dissection in clinically node-negative breast cancer patients. *J. Koo, L. Mahoney, R. Haq, D. Murray, D. Greyson, D. McRitchie, J. Ali: NSABP (\$100,000 1999 - 2002).*

NSABP Clinical Trials. *Dr. J. Koo, Dr. R. Haq: NSABP (\$7,521 2001 - 2002).*

NSABP P-2: Study of Tamoxifen and Raloxifene for the Prevention of Breast Cancer The STAR Trial. *J. Koo, L. Mahoney, R. Haq: NSABP and NCI (\$600,000 1999 - 2004).*

Nutrition-related factors in breast cancer: A prospective cohort study. *Dr. P. J. Goodwin, K. Pritchard, M. Trudeau, J. Koo, M. Ennis: CBCRI (\$264,252 2001 - 2004).*

Nutrition related factors in breast cancer: A prospective cohort study. *Dr. P. J. Goodwin, Drs. K. Prichard, F. O'Malley, G. Fantus, M. Trudeau, J. Koo, M. Ennis: 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 S, 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).*

Study of Tamoxifen and Raloxifene in the prevention of breast cancer. *Dr. J. Koo: NSABP NCI (\$110,211 2001 - 2002).*

Testing of a prototype ultrasound scanner for high resolution 3-D holographic imaging in patients who are undergoing stereotactic breast biopsy or needle localization and lumpectomy procedures. *Dr. J. Koo, Dr. A. Zalev, Dr. J. Wall, Dr. F. Goldberg: Midipattern Corporation Private, Toronto technology company (\$50,000 2001 - 2002).*

## HONOURS RECEIVED

**Bohnen JMA:** Best Lecturer, Principles of Surgery Postgraduate Lecture Series, Department of Surgery, May 2002.

**Bohnen JMA:** Professional Association of Interns and Residents of Ontario (PAIRO) Trust Fund Travel Award for Clinical Educators, June 2002.

**Koo J:** Elected Member of Breast Committee NSABP, Pittsburgh, USA For a duration of 3 years, September 2001.

**Poulin EC:** Vezina Memorial Lecture (Conferencier Vezina). Universite Laval, November 2001.

**Schlachta CM:** Fitzgerald Academy Clerkship Teaching Award, May 2002.

**DIVISION OF NEUROSURGERY****Dr. M.D. Cusimano - Associate Professor****Dr. R.J. Moulton - Associate Professor (Division Head)****Dr. P.J. Muller - Professor****Dr. R.G. Perrin - Associate Professor****Dr. W.S. Tucker - Associate Professor****PUBLICATIONS**

**Carlotti, A; Bohn D; Rutka, J; Singh, S; Berry, D; Sharman, A; Cusimano, MD; Halperin, M:** A Method to Estimate Urinary Electrolyte Excretion in Patients at Risk of Developing Cerebral Salt Wasting. *Journal of Neurosurgery*: September 2001: 95: pp 420-424.

**Goodell TT, Muller PJ:** Photodynamic therapy: a novel treatment for primary brain malignancy. *Journal Neuroscience Nursing*: December 2001: 33(6): pp 296-300.

**Hebb, A; Cusimano, M:** Idiopathic Normal Pressure Hydrocephalus: A Systematic Review of Diagnosis and Outcome. *Neurosurgery*: November 2001: 49: pp 1166-1186.

**Matsumoto, E; Hamstra, S; Radomski, S; Cusimano, MD:** A Novel Approach to Endourologic Training: Training in the Surgical Skills Centre. *Journal of Urology*: October 2001: 166: pp 1261-1266.

**Matsumoto, ED; Hamstra, SJ; Radomski, SB; Cusimano, MD:** The Effect of Bench Model Fidelity on Endourological Skills: A Randomized Controlled Study. *Journal of Urology*: March 2002: 167: pp 1243-7.

**P.J. Porter, M. Tymianski, P.J. Muller, K.G. TerBrugge:** What to do when the doctor sees double: Identical twins with nearly identical aneurysms. *Interventional Neuroradiology*: July 2001: 7: pp 153-160.

**R. G. Perrin, N. J. Laperriere, D. A. Loblaw and A. Laxton:** Spinal Axis Metastases. In: *Cancer in the Nervous System Second Edition* (Victor A. Levin, ed). Oxford University Press, New Yor: 2002: pp 321-41.

**Suhardja, A; Cusimano, M.; Agur, A:** Surgical Exposure and Resection of the Vertical Petrous Carotid Artery: An Anatomical Study. *Neurosurgery*: September 2001: 49, 3: pp 665-670.

**W. Bradley Jacobs MD and Richard G. Perrin, M.D:** Evaluation and Treatment of Spinal Metastases: An Overview. *Neurosurgical Focus*: December 2001: Dec. 2001:

**Wanzel, KR; Hamstra, SJ; Anastakis, DJ; Matsumoto, ED; Cusimano, MD:** Effect of Visual-spatial Ability on Learning of Spatially-Complex Surgical Skills. *The Lancet*: 2002: 359: pp 230-231

**Wanzel, KR; Hamstra, SJ; Anastakis, DJ; Matsumoto, ED; Cusimano, MD:** Press-Release--Surgeons' Performance Related to Visual-Spatial Ability. *The Lancet*: January 2002:

**INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

**Cusimano MD:** American Association of Neurological Surgeons, Chicago, Illinois, April 2002. 109 Contemporary Surgical Approaches to the Lateral Skull Base.

**Cusimano MD:** Ontario Public Health Association, Kitchener, Ontario, November 2001. 52nd Annual Ontario Public Health Association Conference.

**Cusimano MD:** London Free Press, London, Ontario, September 2001. Accident Reduction Plan Targets Schools.

**Cusimano MD:** Brain Tumor Foundation of Canada, Ottawa, Ontario, October 2001. Brain Tumor Foundation of Canada Information Day.

**Cusimano MD:** Canada AM, Toronto, Ontario, September 2001. CTV Health Report.

**Cusimano MD:** Hannover, Department of Neurosurgery, Anniversary Symposium, Hannover, Germany, June 2002. Dr. Madjid Samii Anniversary Symposium.

**Cusimano MD:** OMEN Research Symposium, Kingston, Ontario, May 2002. Medical Knowledge Transfer: Factors Influencing the Effective Implementation of a Concussion Prevention Video in Youth Hockey Leagues.

**Cusimano MD:** Neurological Surgery Delegation, Philadelphia, Pennsylvania, June 2002. People to People Ambassador Programs.

**Muller PJ:** CIMIT Lecture Series Massachusetts General Hospital, Boston, Massachusetts, May 2002. Brain tumor photodynamic therapy theory and practice.

**Muller PJ:** Barrow Neurological Institute, Phoenix, Arizona, May 2002. Fluorescence guided resection of brain tumors.

**Perrin RG:** Hannover Neurosurgery Symposium, Hannover, Germany, June 2002. International Neurosurgical Initiatives June 21, 2002.

**Perrin RG:** Saba University School of Medicine, Saba, Netherlands-Antilles, November 2001. Head Trauma and Stroke.

**Tucker WS:** Education Session, OMA Section on Physical Medicine & Rehabilitation, Toronto, Ontario, May 2002. Assessment of the Degenerative Conditions of the Cervical Spine.

**Tucker WS:** Neurosurgical Nurses at St. Michael's Hospital, Toronto, Ontario, May 2002. Carotid Endarterectomy.

**Tucker WS:** Teva Neuroscience, Medical Education Academy, Denver, Colorado, April 2002. Medical-Legal Issues for Neurology Practice.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

(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 PJ, Hetzel F, Chopp M, Hitchcock M, Patterson M, Singh G, Wilson B: National Institute of Health (\$6,641,179 1997 - 2003).*

How effective is an injury prevention program at lessening injuries in children? Phase 1 of a case-control study. *Cusimano M, Chipman M, Kalnins I, Freedman B, McRae A: St. Michael's Hospital Foundation (\$9,630 2000 - 2002).*

Nutritional Status and Body Composition of Patients with Brain Tumors Awaiting Surgical Resection. *McCall, Michelle, Cusimano, Michael: Canadian Foundation for Dietetic Research (\$10,000 2001 - 2002).*

Specification of the visual-spatial abilities relevant to surgical training. *Hamstra, S, Anastakis D, Cusimano M, Caminiti M, Matsumoto E: Physician's Services Incorporated (\$23,200 2000 - 2001).*

The development and validation of an assessment of communicative competence in physicians. *Cusimano MD, Rothman A, Bilan S, Cuttress L, Keystone J: Medical Research Council of Canada (\$19,300 1997 - 2001).*

## HONOURS RECEIVED

**Perrin RG:** 2001 CNS Distinguished Service Award for outstanding work and contributions to World Neurosurgery, presented at the Congress of Neurological Surgeons Annual Meeting, San Diego, California, October 2001.

**DIVISION OF ORTHOPAEDIC SURGERY**

**Dr. E.R. Bogoch - Professor**  
**Dr. T.R. Daniels - Assistant Professor**  
**Dr. D.E. Hastings - Professor**  
**Dr. R.J. McBroom - Assistant Professor**  
**Dr. M.D. McKee - Associate Professor**  
**Dr. E.H. Schemitsch - Professor (Division Head)**  
**Dr. J.P. Waddell - Professor**

**PUBLICATIONS**

**Adili A, Bhandari M, Sprague S, Dunlop RB, Schemitsch EH:** Humeral shaft fractures as predictors of intra-abdominal injuries in motor vehicle collision victims. Archives of Orthopaedic and Trauma Surgery: June 2002: 122(1): pp 5-9.

**Bhandari M, Devereaux PJ, Guyatt GH, Cook DJ, Swiontkowski MF, Sprague S, Schemitsch EH:** An observational study of orthopaedic abstracts and subsequent full text publications. Journal of Bone and Joint Surgery. American Volume: April 2002: 84A-4: pp 615-621.

**Bhandari M, Richards RR, Sprague S, Schemitsch EH:** The quality of reporting of randomized trials in The Journal of Bone and Joint Surgery from 1988-1998. Journal of Bone and Joint Surgery: March 2002: 84A(3): pp 372-381.

**Bhandari M, Richards RR, Sprague S, Schemitsch EH:** Assessing the quality of trials in surgery: reliability of the Jadad scale. Controlled Clinical Trials: December 2001: 22(6): pp 687-688.

**Bogoch Earl R, Henke Marjorie, Mackenzie Terence, Olschewski Eli, Mahomed Nizar N:** Lumbar paravertebral nerve block in the management of pain, following total hip and knee arthroplasty: a randomized controlled clinical trial. Journal of Arthroplasty: June 2002: 17:4: pp 398-401.

**Bogoch ER:** Minimally Invasive Arthroplasty - Proceed with Caution. Bulletin Canadian Orthopaedic Association: May 2002: May/June02: pp 20-21.

**Gladman DD, Chaudhry-Ahluwalia V, Ibanez D, Bogoch E, Urowitz MB:** Outcomes of symptomatic osteonecrosis in 95 patients with systemic lupus erythematosus. Journal of Rheumatology: October 2001:28(10): pp 2226-2229.

**McKee MD:** Bone Substitutes. COA Bulletin: March 2002: March 2002: pp 23-26.

**McKee MD:** Open reduction and internal fixation versus semi-constrained total elbow arthroplasty for complex fractures of the distal humerus in elderly patients. COA Bulletin: December 2001: 5: pp 24-26.

**Ring D, Jupiter JB, Perry B, McKee MD:** The use of a blade plate and autogenous cancellous bone graft in the treatment of ununited fractures of the proximal humerus. Journal Shoulder Elbow Surg: December 2001: 10, No.6: pp 501-507.

**Robinson P, White LM, Salonen DC, Daniels TR, Ogilvie-Harris D:** Anterolateral ankle impingement: MR arthrographic assessment of the anterolateral recess. Radiology: October 2001: 221 (1): pp 186-190.

**Sarmiento A, Waddell JP, Latta LL:** Diaphyseal Humeral Fractures: Treatment Options. Journal of Bone & Joint Surgery: October 2001: 83A(10): pp 1566-1579.

**Schemitsch EH, Bhandari M:** Bone healing and grafting. In: Orthopaedic Knowledge Update 7 AAOS Press. Rosemont, Illinois: 2002: pp 19-30.

**Schemitsch EH, Nousiainen M:** Complications of Fractures. In: Mosby St. Louis, MO: 2002: pp 239-249.

**Wedge JH, Daniels TR, Alman B:** Congenital Clubfoot. Current Paediatrics: October 2001: II (No. 5): pp 332-340.

**Whelan DB, Bhandari M, McKee MD, Guyatt G, Kreder HJ, Stephen DJG, Schemitsch EH:** Inter-observer and Intra-observer Variation in the Assessment of the healing of Tibial Fractures after Intramedullary Fixation. *Journal Bone Joint Surg (B)*: January 2002: 84B: pp 15-18.

**Whelan DB, Bhandari M, McKee MD, Guyatt GH, Kreder HJ, Stephen D, Schemitsch EH:** Inter-observer and intraobserver variation in the assessment of the healing of tibial fractures after intramedullary fixation. *Journal of Bone and Joint Surgery British Volume*: January 2002: 84(1): pp 15-18.

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

**Bogoch ER:** Regional Osteoporosis Board Meeting, Toronto, Ontario, June 2002. A plan for fragility fractures in Ontario Fracture Clinics.

**Bogoch ER:** Osteoporosis Society of Canada - AGM, Toronto, Ontario, June 2002. Ontario 2002: Osteoporosis in the Fracture Clinic.

**Bogoch ER:** Bone Health: Going Beyond the Obvious, London, Ontario, May 2002. Reaching the Osteoporosis Patient with Fractures.

**Bogoch ER:** St. Joseph's Health Centre - Geriatric Education Day, Toronto, Ontario, January 2002. The senior who has fractured.

**Daniels TR:** University of Saskatchewan, Orthopaedic Grand Rounds, Saskatoon, SK, October 2001. 1) Current concepts of total ankle arthroplasties; and 2) Diabetic foot disorders.

**Daniels TR:** Interdisciplinary Management of the High Risk Foot: Applying Best Practice -- Presented by Wound Healing and Skin Ulcer Prevention Program of St. Michaels' Hospital, Key Note Speaker, Toronto, Ontario, September 2001. 1) The charcot arthropathy; 2) Panel and case studies; and 3) Panel and case-based presentations.

**Daniels TR:** Workplace Safety and Insurance Board, Continued Medical Education/Journal Club Session, Toronto, Ontario, February 2002. Crush injuries to foot and ankle.

**Daniels TR:** BioPed Franchising, Toronto, Ontario, January 2002. Diabetes: Its rapid rate of increase and worldwide effect.

**Daniels TR:** Ontario college of family physicians and Bio-Ped Franchising, Toronto, Ontario, November 2001. Diabetes: Prevention & treatment of complications of the lower extremities.

**Daniels TR:** Smith & Nephew - St. Michael's Hospital Wound Care Team Meeting, Toronto, Ontario, March 2002. Diabetic Foot Complications.

**Daniels TR:** 3M-St. Michael's Hospital Wound Care Preceptorship, Toronto, ON, November 2001. Management of charcot arthropathy.

**Daniels TR:** St. Michael's Hospital Acute Wound Care Preceptorship Program in partnership with 3M and KCI Medical Canada, Toronto, Ontario, April 2002. Surgical Management of Charcot Foot.

**Daniels TR:** AOA/COA Program Committee, Victoria 2002, Instructional Course Lecture, Victoria, British Columbia, June 2002. Will ankle arthroplasty replace ankle arthrodesis?

**McBroom RJ:** Macnab Club, Niagara Fall, Ontario, September 2001. Subtraction osteotomy.

**McKee MD:** Whistler 2002 Orthopaedic Symposium: Emerging Trends, Whistler, BC, Canada, March 2002. 1) The terrible triad of the elbow 2) Humeral shaft fractures: Surgical approach 3) Bone substitutes in trauma 4) External fixation for tibial plafond fractures.



**McKee MD:** 17th Annual Meeting of the Orthopaedic Trauma Association and Residents Annual Basic Fracture Course, San Diego, CA, USA, October 2001. 1. Scaphoid fractures 2. Forearm fractures and injuries of the DRUJ 3. Volarly displaced fractures of the distal radius 4. Case presentations: complex elbow trauma 5. Small group discussion - upper extremity fractures.

**McKee MD:** Orthopaedic Trauma Association Specialty Day, Dallas Texas, February 2002. Elbow fractures.

**McKee MD:** “Contemporary Issues in Orthopaedic Trauma”, London, Ontario, November 2001. Royal College of Physicians and Surgeons of Canada Guest Lecturer “Functional Outcome Following Fracture of the Clavicle”.

**McKee MD:** Canadian Orthopaedic Association, Victoria, BC, June 2002. Symposium: “Bone substitutes in orthopaedics: 2002 and beyond”.

**McKee MD:** American Academy of Orthopaedic Surgeons, Dallas, Texas, February 2002. Symposium: comminuted distal humeral fractures.

**Schemitsch EH:** Wellington Clinical School of Medicine (Visiting Professor), Wellington, New Zealand, April 2002. 1. Current concepts in the treatment of open tibial fractures. 2. Nailing vs. plating of humeral shaft fractures. 3. Arthroplasty options for AVN. 4. Periprosthetic femoral fractures. 5. Current concepts in adult elbow trauma. 6. Pathobiology of fat embolism. 7. Patella replacement in total knee arthroplasty. 8. Is there anything new in stabilization of lower extremity.

**Schemitsch EH:** AAOS, Dallas, Texas, February 2002. 1. Instructional Course Lecture. Challenges and Complications in the Management of Tibial Shaft Fractures.

**Schemitsch EH:** Revision Total Knee Meeting., Muskoka, Ontario, June 2002. 1. New polyethylene in total knee replacement. 2. Constraint in total knee replacement.

**Schemitsch EH:** COA Annual Meeting. Instructional Course., Victoria, British Columbia, June 2002. 1. Poly trauma in the geriatric patient.

**Schemitsch EH:** Duke University (Visiting Professor), Durham, North Carolina, April 2002. 1. Principles of treatment of articular fractures. 2. Fracture dislocations of the elbow.

**Schemitsch EH:** Whistler 2002 Orthopaedic Symposium, Whistler, British Columbia, March 2002. 1. Retrograde Femoral Nailing: Treatment of Choice in Supracondylar Femur Fractures.

**Schemitsch EH:** Trauma Meeting, Flims Switzerland, March 2002. 1. The Difficult Articular Fracture. 2. Clinical Cases-Tibia. 3. Proximal Tibial Fractures Assessment and Treatment.

**Schemitsch EH:** AO Fracture Course, Montreal, Quebec, August 2001. 1. Bone: Responses to fracture and implant. 2. Diaphyseal fractures: Principles of management.

**Schemitsch EH:** COA Basic Science Course, Ottawa, Ontario, October 2001. 1. Complications of fractures.

**Schemitsch EH:** Fracture Forum, Beaver Creek, Colorado, January 2002. Humeral Shaft Fractures.

**Waddell JP:** Surgical Advances in Total Joint Replacements and Osteo-Biologics, Crowbush, Prince Edward Island, August 2001. Ceramic Bearings.

**Waddell JP:** Orthopaedic Trauma Association’s 2001 Resident’s Fracture Course, San Diego, California, October 2001. Closed Reduction and Treatment of Common Fractures - Principles.

**Waddell JP:** 13th SICOT Trainees’ Meeting, St. Petersburg, Russia, May 2002. Co-Chairman: Upper Extremity and Hand Surgery.

**Waddell JP:** Mayo Clinic, Rochester, Minnesota, June 2002. Coventry Visiting Professor “Current Management of Open Fractures”.

**Waddell JP:** Mayo Clinic, Rochester, Minnesota, June 2002. Coventry Visiting Professor “Difficult Primary Total Hip Arthroplasty”.

**Waddell JP:** Mayo Clinic, Rochester, Minnesota, June 2002. Coventry Visiting Professor “The Evolution of Orthopaedic Practice”.

**Waddell JP:** Canadian Orthopaedic Residents’ Association, Montreal, Quebec, January 2002. Current management of open fractures.

**Waddell JP:** Canadian Orthopaedic Residents’ Association, Montreal, Quebec, January 2002. Difficult primary total hip replacement.

**Waddell JP:** Japanese Orthopaedic Association, Okayama, Japan, May 2002. Difficult total hip replacement.

**Waddell JP:** University of West Indies, Division of Orthopaedic Surgery, Kingston, Jamaica, November 2001. External Examiner.

**Waddell JP:** SICOT Trainee’s Meeting, Paris, France, August 2001. Fractures of the Humeral Shaft.

**Waddell JP:** Combined Canadian Orthopaedic Association and American Orthopaedic Association, Victoria, British Columbia, June 2002. Instructional Course Lecture “Adult Reconstruction - Total Hip Arthroplasty in the Younger Patient: Where are we Now?”

**Waddell JP:** American Academy of Orthopaedic Surgeons, Dallas, Texas, February 2002. Instructional Course Lecture “Femur After Total Hip Arthroplasty: Specifics and Results”.

**Waddell JP:** American Academy of Orthopaedic Surgeons, Dallas, Texas, February 2002. Instructional Course Lecture “The Challenge of Total Hip Replacement After Pelvic Osteotomies”.

**Waddell JP:** Harvard Fall Hip Course: A New Era in Total Hip Arthroplasty, Cambridge, Massachusetts, October 2001. Management of Femoral Neck Non-Union: Osteotomy vs. THR.

**Waddell JP:** 5th European Trauma Congress, Vienna, Austria, May 2002. Moderator “Varia - Lower Extremity Session III”.

**Waddell JP:** Canadian Orthopaedic Residents’ Association, Montreal, Quebec, January 2002. Moderator - Trauma Session.

**Waddell JP:** Orthopaedic Trauma Association’s 2001 Resident’s Basic Fracture Course, San Diego, California, October 2001. Moderator: Closed Treatment of Common Fractures.

**Waddell JP:** Surgical Advances in Total Joint Replacements and Osteo-Biologics, Crowbush, Prince Edward Island, August 2001. Moderator: Knee session.

**Waddell JP:** Harvard Fall Hip Course: A New Era in Total Hip Arthroplasty, Cambridge, Massachusetts, October 2001. Preoperative Planning & Calcar Replacement Stems.

**Waddell JP:** Combined Canadian Orthopaedic Association and American Orthopaedic Association, Victoria, British Columbia, June 2002. R.I. HARRIS LECTURE “Wings of the Future”.

**Waddell JP:** 13th SICOT Trainees’ Meeting, St. Petersburg, Russia, May 2002. Surgical Treatment of Fractures of the Humeral Shaft.

## **RESEARCH AND INVESTIGATIONS**

*Senior Investigator’s Name Appears in Italics*

A multicenter prospective randomized trial of conservative treatment vs plate fixation for displaced fractures of the clavicular shaft. *McKee MD, Schemitsch EH: University of Toronto, Division of Orthopaedic Surgery Research Committee.* (\$10,000 2001 - 2002).

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 multicenter prospective randomized trial of open reduction and internal fixation vs. total elbow arthroplasty for severe fractures of the distal humerus in elderly patients. *McKee MD, Schemitsch EH: Canadian Orthopaedic Trauma Society, Orthopaedic Trauma Association* (\$30,000 2001 - 2003).

A prospective randomized clinical investigation of recombinant human bone morphogenetic protein - 2 and biphasic calcium phosphate with the TSRH spinal system for posterolateral lumbar in patient with degenerative disc disease. *McBroom RJ: Medtronic Sofamor Danek Canada* (\$20,000 2001 - 2002).

A randomized trial comparing total elbow arthroplasty to open reduction, internal fixation for displaced intra-articular distal humeral fractures in the elderly. *McKee MD, Schemitsch EH, Kreder HJ: Zimmer of Canada Inc.* (\$20,000 2000 - 2002).

A randomized, prospective clinical trial of arthroplasty versus internal fixation for comminuted fractures of the distal humerus in elderly patients. *McKee MD, Canadian Orthopaedic Trauma Society: Zimmer Canada Ltd.* (\$20,000 2001 - 2003).

A randomized, prospective clinical trial of arthroplasty versus internal fixation for comminuted fractures of the distal humerus in elderly patients. *McKee MD, Canadian Orthopaedic Trauma Society: Orthopaedic Trauma Association* (\$30,000 2001 - 2003).

A randomized, prospective clinical trial of operative versus conservative treatment for displaced mid-shaft fractures of the clavicle. *McKee MD, Canadian Orthopaedic Trauma Society: Orthopaedic Trauma Association* (\$30,000 2001 - 2003).

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 - 2002).

Development of a Biomechanics Laboratory. *Schemitsch EH: St. Michael's Hospital Foundation* (\$500,000 2001).

How are you now? Testing a model of recovery from patient's perspective one year after a traumatic fracture of an extremity. *Beaton D, Schemitsch EH, Franche RL, Gignac M, Kreder H, Davis A: Canadian Institutes of Health Research* (\$75,000 2002).

Humeral shaft fractures: What are we doing and is it working? *Kreder HJ, McKee MD: Institute of Clinical and Evaluative Sciences* (\$10,000 2000 - 2002).

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).

Immunoassays and imaging for the analysis of synthesis and degradation of cartilage in vitro and in vivo. *Poole AR, Bogoch E, Cruz T, Fitzcharles MA, Hartmann N, Keystone, Laverty S, Menard H, Mort J, St-Pierre Y: Canadian Arthritis Network* (\$27,000 1999 - 2003).

Insulin-like growth factors modulate fracture healing following intramedullary reaming. *Bhandari M, Schemitsch EH: Regional Medical Associates* (\$4,300 2001 - 2002).

Integrated Post-Fracture Care. *Susan Jaglal, Hawker G, McIsaac W, Davis D, Carroll J, Jaakkimainen L, Cadarette S, Bogoch E: Ontario Women's Health Council* (\$189,636 2002).

Martin Family Centre for Arthritis Care Research. *Bogoch ER, Shupak R, Johnstone B: Martin Family* (\$500,000 2000 - 2005).

New quantitative imaging techniques for arthritis. *Foster S, Bogoch E, Buschmann M, Kirkley A, Holdsworth D, Poole AR, Webber C: Canadian Arthritis Network* (\$27,000 1999 - 2003).

Ontario Orthopaedic Association, Prevention of Osteoporotic Fragility Fractures. *Bogoch ER: Procter & Gamble Pharmaceuticals* (\$165,000 2001 - 2003).

Osteoclastic Resorption in Inflammatory Arthritis: Mechanisms and Pharmacological Regulation. *Dixon J, Bogoch E, de Brum-Fernandes A, Heersche J, Sims S: Canadian Arthritis Network* (\$27,000 1998 - 2003).

Osteoclastic Resorption in inflammatory arthritis: Mechanisms and Pharmacological regulation (Project code 01-CEL-08 renewal). *Bogoch ER, Sims S, Dixon J, Heersche J, De Brum Fernandes A: Canadian Arthritis Network (CAN)* (\$16,500 2001 - 2002).

Osteoclastic resorption in inflammatory arthritis: Mechanisms and pharmacological regulation. *Dr. Jeff Dixon, Bogoch ER, deBrum-Fernandes AJ, Heersche JN, Manolson M, Sims SM: Canadian Arthritis Network (CAN) (\$82,500 2001 - 2002).*

Pilot study for a randomized controlled trial of standardized arthroscopic debridement protocol (SADP) versus total knee arthroplasty (TKA) for advanced knee osteoarthritis. *Mahomed N, Schemitsch EH, University of Toronto, Arthroplasty Committee: University of Toronto, Division of Orthopaedic Surgery Research Committee. (\$10,000 2001 - 2002).*

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 disability outcomes following revision total knee arthroplasty. *Davis A, Mahomed N, Gross A, Szalai J, Schemitsch EH, Kreder H, MacDonald S, Gignac M, Garbuz D, Sekundiak T, Bogoch E, Davey JR: Canadian Institutes of Health Research (\$68,000 2001 - 2003).*

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).*

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 - 2002).*

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 Orthopaedic Trauma Study: Orthopaedic Trauma Association. (\$75,000 2002 - 2003).*

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: NIH (\$1,500,000 2002 - 2005).*

Technical considerations in intramedullary nailing of tibial shaft fractures. *Bhandari M, Guyatt G, Swiontkowski M, Tornetta P, Schemitsch EH: Canadian Orthopaedic Foundation (\$2,100 2001 - 2002).*

The effect of pulsatile irrigation on cortical bone blood flow and fracture healing: A canine study using laser doppler flowmetry. *Schemitsch EH, Bhandari M: University of Toronto, Division of Orthopaedic Surgery Research Committee (\$10,000 2001 - 2002).*

The effect of pulsatile lavage on adipocyte differentiation. *Bhandari M, Schemitsch EH: Hip Hip Hooray (\$2,000 2000 - 2001).*

The effect of pulsatile lavage on soft tissue blood flow. An invivo study with LDF. *Bhandari M, Schemitsch EH, DiPasquale D: Hip Hip Hooray Foundation (\$2,000 2000 - 2001).*

The role of pressure irrigation in modulating cytokines. *Bhandari M, Schemitsch EH: Canadian Orthopaedic Foundation (\$2,700 2001 - 2002).*

## **HONOURS RECEIVED**

**Daniels TR:** \$1.1 Million Donation for Dr. Daniels toward St. Michael's Hospital Fracture Clinic (Anonymous), December 2001.

**Daniels TR:** President of the Canadian Orthopaedic Foot and Ankle Society, June 2002.

**Daniels TR:** St. Michael's Hospital's Clinical Outcomes Competition - High Risk Foot Clinic, January 2002.

**McKee MD:** 2001 Sanofi Synthelabo Resident Research Award "The effect of smoking on outcome and complication rates following Ilizarov reconstruction, November 2001.

**McKee MD:** 2002 Neer Award Finalist, American Shoulder and Elbow surgeons, February 2002.

**McKee MD:** AAOS Specialty Day: OTA Highlight Paper from Annual Meeting 2001, February 2002.

**DIVISION OF PLASTIC SURGERY****Dr. L.G. Douglas - Assistant Professor****Dr. J.L. Mahoney - Associate Professor (Division Head)****INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES****Mahoney JL:** National Capital Society of Plastic Surgeons, Ottawa, Ontario, January 2002. Lower Extremity reconstruction.**Mahoney JL:** 2nd European Vacuum Therapy Symposium, Salisbury, UK, June 2002. TNP Applications in Diabetic Wounds.**Mahoney JL:** Workplace Safety and Insurance Board, Hand Rounds, Toronto, Ontario, May 2002. Ultrasound in the Diagnosis of Trigger Finger.**Mahoney JL:** Essex Medical Society, Windsor, Ontario, June 2002. Vacuum Assisted Wound Closure of Acute Wounds.**Mahoney JL:** Lyndhurst Hospital, Toronto, Ontario, January 2002. Wound Management and Surgical Perspective.**HONOURS RECEIVED****Mahoney JL:** Master Teacher Award, Fitzgerald Academy, St. Michael's Hospital, January 2002.

## DIVISION OF UROLOGY

**Dr. R.J.D. Honey - Assistant Professor (Division Head)**

**Dr. A.G. Keresteci – Associate Professor**

**Dr. R.J. Stewart - Assistant Professor**

**Dr. K. Pace – Assistant Professor**

### PUBLICATIONS

**Chew B, Pace K and Honey RJ:** Munchausen's syndrome presenting as gross hematuria in two women. *Urology*: April 2002: 59 (4): pp 601.

**Honey RJ, Finelli A:** Thoracoscopic-Assisted High Intercostal Percutaneous Renal Access. *Journal of Endourology*: August 2001: 15 #6: pp 581.

**Joo HS, Perks WJ, Kataoka MT, Pace KT, and Honey RJ:** Comparison of patient controlled sedation using either remifentanyl or remifentanyl-propofol for shock wave lithotripsy. *Anesthesia and Analgesia*: November 2001: 93: pp 1227-32.

**Pace KT, Tariq N, Dyer S, Weir MJ, and Honey RJ:** Mechanical percussion, inversion, and diuresis for residual lower pole fragments following shock wave lithotripsy: a prospective, single-blinded, randomized controlled trial. *Journal of Urology*: December 2001: 166: pp 2065-71.

**Tisler A, Pierratos A, Honey RJ, Bull SB, Rosivall L, Logan A:** High urinary excretion of uric acid combined with high excretion of calcium links kidney stone disease to familial hypertension. *Nephrology Dialysis Transplantation*: February 2002: 17: pp 253-259.

### RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

Angiotensin Gene Expression and Regulation in Human Prostate Cancer Angiogenesis. *Stewart, Robert J: Prostate Cancer Research Foundation of Canada* (\$100,000 2001 - 2002).

Evaluation and development of a computerized endourology simulator. *Honey J, Pace K: Cook (Canada) Inc.* (\$75,000 2001 - 2004).

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).

Laparoscopic Donor Nephrectomy. *Pace K, Honey, RJ: NorthEastern Section of American Urological Association* (\$14,000 1999 - 2001).

Laparoscopic vs Open Donor Nephrectomy: A prospective Cohort Study of Donor and Graft Outcomes. *Honey RJ, Pace KT, Stewart RS, Mamazza J, Poulin E, Schlachta C, Zaltzman J, McFarlane P, Prasad R: Kidney Foundation of Canada, Biomedical Research Grant* (\$93,975 2001 - 2003).

Lithotripsy Stone Database Development. *Honey RJ: St. Michael's Hospital Research Centre* (\$8,800 2000 - 2001).

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

**The Propranolol Aneurysm Trial Investigators (Dr. A. Lossing):** Propranolol for small abdominal aortic aneurysms: Results of a randomized trial. *Journal of Vascular Surgery* 2002; March 2002; 35: pp 72-79.

**RESEARCH AND INVESTIGATIONS**

*Senior Investigator's Name Appears in Italics*

Abdominal Aortic Aneurysm Study. *Lossing A: Cellux-C* (\$250,000 2001).

## Sunnybrook and Women's College Health Sciences Centre

### **Dr. Robin Richards – Surgeon-in-Chief**



#### **HEADS OF DIVISIONS**

- Dr. S.E. Fremes - Cardiac Surgery**
- Dr. S. Hanna - General Surgery**
- Dr. M. Schwartz - Neurosurgery**
- Dr. T. Axelrod - Orthopaedic Surgery**
- Dr. J. Semple - Plastic Surgery**
- Dr. L. Klotz – Urology**
- Dr. R. Maggisano - Vascular Surgery**

The Department had an eventful academic year. The year began with the news that Drs. Ron Kodama and Hans Kreder had been promoted to the rank of Associate Professor and Steve Fremes to Full Professor. Dr. Bernie Goldman, having received many accolades, remained as Surgeon-in-Chief until Dr. Robin Richards began his term in September of 2001. The Hospital continued to operate at three sites, the Sunnybrook Campus, the Women's Campus and the Orthopaedic and Arthritic Institute. The management of the operating rooms and related services were amalgamated with Dr. Richards as Co-Director and the integration of policies and procedures, initiated. During the year there were two changes in the Chief Executive office and a change in Anaesthesia Leadership. Human Resources issues in the Anaesthesia Department created challenges that were partially off-set by increased efficiencies. Due to resource issues a Ministerial Operational Review was initiated, that no doubt, will lead to further changes.



#### **Appointments**

The Department welcomed Dr. Marc Pelletier into the Division of Cardiac Surgery, Dr. Sagun Tuli into the Division of Neurosurgery, Dr. Calvin Law to the Division of General Surgery and Drs. Albert Yee and Robin Richards into the Division of Orthopaedic Surgery. Dr. Sender Herschorn was appointed as the University Division Chair of Urology. Dr. Robin Richards was appointed Chair of the Departmental Promotions Committee. Dr. Jeffrey Fialkov (Plastic Surgery) and Dr. Andy Smith (General Surgery) had successful three year reviews and moved from Associate to Active staff. Dr. Bernie Goldman was awarded Emeritus status. Dr. David Stephen was appointed Chief Examiner for Orthopaedic Surgery by the Royal College of Physicians and Surgeons of Canada. Dr. David Rothenberger of the University of Minnesota, performed a review of the Division of General Surgery, co-incident with Dr. Sherif Hanna, completing ten successful years as Division Head.

#### **Inter-Divisional Initiatives**

Several Department members provided leadership to Institutional initiatives, such as the Trauma Program (Dr. Fred Brenneman), the Musculoskeletal Program (Orthopaedic and Arthritic Institute – Dr. John Cameron) and Surgical Oncology (Dr. Sherif Hanna). A multidisciplinary interdivisional spine initiative was developed under the leadership of Dr. Hamilton Hall. The Schulich Heart Program initiated an interdivisional endovascular stenting program, for thoracic aortic aneurysms, with the participation of Drs. Daryl Kucey (Vascular Surgery) and Marc Pelletier (Cardiac Surgery). Dr. Lesley Carr continued her work directing the Women's Pelvic Health Centre.

#### **Teaching**

Dr. Sender Herschorn won the Tovee Award for undergraduate teaching. Dr. Peter Chu received the Problem-Based Learning Tutor Award, of the Peters-Boyd Academy. In addition to his Peters-Boyd Academy Teaching Award, Dr. Chu won the Department of Surgery, Surgical Skills Centre, Distinguished Education Award. Dr. Mahmood Fazl received the 2001-2002 Alan R. Hudson Neurosurgery Faculty Teaching Award. Dr. Dr. Ron Kodama won the A.W. Bruce Undergraduate Teaching Award for the Division of Urology. Harrison Awards were given to Drs. Andrew Burns and Brett Beber in December and Dr. Ben Chew and Brian Rotenberg in June. Dr. John Murnaghan received the best paper award at the Annual Meeting of the Association for Surgical Education, on April 6, 2002 in Baltimore, Maryland for his paper entitled "Evaluating the Effectiveness of a Two Year Curriculum in a Surgical Skills Centre". This paper was co-authored by Dr. Mitch Brown and others. Dr. Robin Richards co-coordinated the 18<sup>th</sup> Annual



Upper Extremity Update and Drs. Stu Wright, Terry Axelrod, Paul Binhammer and Dr. Richard Holtby participated. Drs. Mitch Brown and John Semple co-chaired the 2<sup>nd</sup> Annual Toronto Breast Surgery Symposium in April. Dr. Raj Mihda hosted the first Annual University of Toronto Peripheral Nerve Symposium. Dr. Michael Schwartz organized an Update on Radiosurgery at the Canadian Congress of Neurological Sciences in Vancouver. Drs. Oleh Antonyshyn and Jeff Fialkov presented a superb University Trauma Rounds on craniofacial reconstruction.

### Research

Dr. Raj Midha (Neurosurgery) received the Premier's Excellence award for his research. Dr. Lavina Lickley received a Women of Action Award from the Israel Cancer Research Fund. Dr. Claire Holloway continued her breast cancer research and initial plans were made for the development of an experimental operating room at the Sunnybrook Campus. Dr. John Semple received a large grant for a tissue-engineering initiative. Dr. Laurie Klotz received an award from the Canadian Uro-Oncology group for his leadership from 1995-2001. Dr. Steve Fremes received recognition for his work on intra-operative coronary angiography and was active supervising graduate students. Dr. Daryl Kucey's graduate student (Dr. Lawrence Green), presented his research at Gallie Day. Dr. Carrie Whyne directed a program of biomechanical research, in association with members of the Orthopaedic Division.



### Other Honours, Awards and Activities

Dr. Ted Ross (General Surgery) received the Tile Award in December and Dr. Raj Mihda (Neurosurgery) the same award in June. Dr. Sender Herschorn was appointed a member of the Scientific Committee of the International Continence Society and was appointed to the Board of Directors' Alternates, for the American Urological Association for 2002-2003. Dr. Marc Pelletier was awarded the Royal College of Physicians and Surgeons of Canada Prize, for the best paper published in the Annals of the Royal College during 2001. Dr. Laurie Klotz received a Recognition Award from the Canadian Urology Association and the Canadian Journal of Urology. Dr. John Semple was President of the Canadian Society of Plastic Surgeons.

Drs. Massey Beveridge and Peter Chu were active in International Surgical activity. Dr. Joel Fish continued to direct the comprehensive activities of the Ross Tilley Burn Centre. Drs. Marv Tile and Hamilton Hall were active in the Sunnybrook and Orthopaedic and Arthritic Foundations respectively and worked through the year towards their integration. Drs. Robert Maggisano and Richard Holtby served on the Executive of the Medical Dental Midwifery Staff Association. Dr. Maggisano was also elected as an Institutional representative to the Provincial Steering Committee on Alternative Funding Plans and represented Sunnybrook and Women's physicians, on the Provost's Task Force on Clinical Faculty. Dr. George Christakis competed a term as Chairman of the Board of SHUTC.

### New Staff

Dr. Gideon Cohen received the Charles H. Bryan Annual Clinical Excellence Award in Thoracic and Cardiovascular Surgery, from the Cleveland Clinic Foundation and will be joining the Division of Cardiac Surgery. Drs. Sandro Rizoli and Lorraine Tremblay will be joining the Division of General Surgery and the multidisciplinary Department of Critical Care. Dr. Robert Nam will be joining the Division of Urology to replace Dr. Neil Fleshner who was appointed Head of the Division of Urology at the University Health Network.

### Conclusion

In the Spring we were pleased to learn that Dr. Michael Ford would be promoted to Assistant Professor and Drs. Joel Fish and Neil Fleshner to Associate Professor. Although the Department faced many challenges during the year it remained well-aligned with the Institution's Clinical Service Priorities. In particular, activities relating to trauma, cancer, heart disease and musculoskeletal disorders are emphasized by the Institution and the Department plays an integral role in patient care, teaching and research, in these areas.

## **DIVISION OF CARDIAC SURGERY**

**Dr. G.T. Christakis - Associate Professor**

**Dr. S.E. Froles - Professor (Division Head)**

**Dr. B.S. Goldman - Professor**

**Dr. M.P. Pelletier - Assistant Professor**

## **PUBLICATIONS**

**Dario F. DelRizzo, Darren Freed, Ahmed Abdoh, Donald Doty, Bernard S. Goldman, W.R. Eric Jamieson, and Stephen Westaby:** Midterm Survival of Stented Versus Stentless Valves: Does Concomitant Coronary Artery Bypass Grafting Impact Survival? *Seminars in Thoracic and Cardiovascular Surgery*: October 2001: 13, No. 4: pp 148-155.

**David S. Bach, Bernard Goldman, Edward Verrier, Michael Petracek, Jeremy Wood, Scott Goldman, and Tirone David:** Eight-Year Hemodynamic Follow-up After Aortic Valve Replacement With the Toronto SPV Stentless Aortic Valve. *Seminars in Thoracic and Cardiovascular Surgery*: October 2001: 13, No. 4: pp 173-179.

**Gideon Cohen, MD, George T. Christakis, MD, Campbell D. Joyner, MD, Christopher D. Morgan, MD, Miguel Tamariz, MD, Naoji Hanayama, MD, Hari Mallidi, MD, J.P. Szalai, PhD, Marko Katic, BA, Vivek Rao, MD, Stephen E. Froles, MD, and Bernard S. Goldman, MD:** Are Stentless Valves Hemodynamically Superior to Stented Valves? A Prospective Randomized Trial. *Annals of Thoracic Surgery*: March 2002: 73: pp 767-78.

**Hanayama N, Christakis GT, Mallidi HR, Joyner CD, Froles SE, Morgan CD, Mitoff PR, Goldman BS:** Patient-prosthesis mismatch is rare following aortic valve replacement: valve size may be irrelevant. *Annals of Thoracic Surgery*: June 2002: 73: pp 1822-9.

**Naoji Hanayama, MD, George T. Christakis, MD, Hari R. Mallidi, MD, Campbell D. Joyner, MD, Stephen E. Froles, MD, Christopher D. Morgan, MD, Peter R.R. Mitoff and Bernard S. Goldman, MD:** Patient Prosthesis Mismatch Is Rare After Aortic Valve Replacement: Valve Size May Be Irrelevant. *Annals of Thoracic Surgery*: June 2002: 73: pp 1822-1829.

**Pelletier MP, Chang CP, Vagelos R, Robbins RC:** Alternative approach for use of a left ventricular assist device with a thrombosed prosthetic valve. *Journal of Heart Lung Transplantation*: March 2002: 21: pp 402-404.

**Rao V, Christakis GT., Weisel RD., Ivanov J, Borger MA., Cohen G, ICT Investigators:** The Insulin Cardioplegia Trial: Myocardial protection for urgent coronary artery bypass grafting. *Journal of Thoracic and Cardiovascular Surgery*: May 2002: 123: pp 928-35.

**Saito T, Pelletier MP, Shennib H, Gaid A:** Nitric oxide system in needle-induced transmyocardial revascularization. *Annals of Thoracic Surgery*: July 2001: 72(1): pp 129-36.

**Shargall Y, Goldman BS, Christakis GT, David T, and the Clinical Investigators of the TSVP:** Analysis of Explants and Causes of Mortality During Long-Term Follow-up of the Toronto Stentless Porcine Valve. *Seminars in Thoracic and Cardiovascular Surgery Suppl 1*: October 2001: 13, No. 4: pp 106-112.

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

**Christakis GT:** Cardiovascular Conference, Baptist Health South Florida., Miami, Florida, May 2002. Aortic Valves - Does Size Really Matter?

**Christakis GT:** Edwards Lifesciences, Fort Lauderdale, Florida, May 2002. Aortic Valves - Does Size Really Matter?

**Christakis GT:** Southlake Regional Health Centre, Cardiology Rounds, Newmarket, Ontario, February 2002. Does Size Really Matter?

**Christakis GT:** Contemporary Cardiac Care Conference, Huntsville, Ontario, September 2001. Does the Type of Aortic Valve Prosthesis Really Matter?

**Christakis GT:** Valvular Heart Disease 2002, Mayo Clinic, Rochester, Minnesota, June 2002. Stentless Prostheses: Are There Real Advantages?

**Christakis GT:** American Heart Association 74th Annual Meeting., Anaheim, California, November 2001. When and How to Use Stentless Bioprosthetic Valves.

**Pelletier MP:** McGill University, Department of Cardiovascular Surgery, Montreal, Quebec, May 2002. Radial artery use is safe in patients with moderate to severe left ventricular dysfunction.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

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

Ischaemia Management with Accupril Post-Bypass Graft Via Inhibition of Converting Enzyme (IMAGINE). *Myers M (site), Fremes SE: Parke-Davis Pharmaceutical Research* (\$69,169 1999 - 2001).

Multi Centre Radial Artery Patency Study. *Fremes, SE, Cohen E, Naylor CD, Fradet G, Buller C, Able J, Carrera R, Gelfand E, Tymchak W, Menkis A, Almond D, Myers M, Erret L, Watson R, Yau T, Schwartz L, Rubens F, Higginson L, Carrier M, Cote G, Morin J, Doyle D, Gleeton O: Medical Research Council* (\$266,699 1999 - 2001).

Stem Cell Chemotaxis in Acute Myocardial Infarction. *Marc Pelletier: Schulich Heart Program, Tanna Schulich Scholarship* (\$90,000 2001 - 2004).

Stem Cell Chemotaxis in Acute Myocardial Infarction. *Marc Pelletier: Research Institute, Sunnybrook and Women's College Health Sciences Centre* (\$50,000 2001 - 2003).

The EXPEDITION Trial (Na<sup>+</sup>/H<sup>+</sup> Exchange Inhibition to Prevent Events in Acute Cardiac Conditions). *Fremes, SE (site): Aventis Pharmaceuticals, Inc* (\$100,000 2001 - 2002).

## HONOURS RECEIVED

**Pelletier MP:** Co-Author, Royal College of Physicians and Surgeons of Canada Prize for best paper published in Annals of RCPSC, June 2002.

**Pelletier MP:** Research Scholarship, Research Institute of Sunnybrook and Women's College Health Sciences Centre, July 2001.

**Pelletier MP:** Tanna Schulich Scholarship in Cardiovascular Research, July 2001.

## **DIVISION OF GENERAL SURGERY**

**Dr. F.D. Brenneman - Assistant Professor**

**Dr. P. Chu - Assistant Professor**

**Dr. S.S. Hanna - Assistant Professor (Division Head)**

**Dr. A.W. Harrison - Professor**

**Dr. G.Y. Hiraki - Assistant Professor**

**Dr. C.M.B. Holloway - Assistant Professor**

**Dr. C. Law - Assistant Professor**

**Dr. L Lickley - Professor**

**Dr. H.A.B. Miller - Associate Professor**

**Dr. T.M. Ross - Associate Professor**

**Dr. A.L. Smith - Assistant Professor**

**Dr. G.A. Taylor - Associate Professor**

## **PUBLICATIONS**

**Bui L, Smith AJ, Bercovici M, Szalai JP, Hanna SS:** Minimizing blood loss and transfusion requirements in hepatic resection. *HPB Surgery*: June 2002: 04: pp 5-10.

**Bui LL, Wyles L, Bradley H, Law CHL, Smith AJ:** Interest and participation in support group programs among colorectal cancer patients. *Cancer Nursing*: April 2002: 26: pp 1-5.

**Cooper MA, Smith AJ, Khalifa M:** Carcinoid syndrome from gastrointestinal carcinoid tumour without distant metastases. *Journal of Clinical Gastroenterology*: June 2002: 35: pp 00-00.

**Fitzgerald TL, Khalifa MA, Al Zahrani M, Law CHL, Smith AJ:** Ex vivo sentinel lymph node biopsy in colorectal cancer: a feasibility study. *Journal of Surgical Oncology*: May 2002: 80: pp 27-32.

**Pereira P, Rubenthiran U, Kaneko M, Jothy S, Smith AJ:** CD44s expression mitigates the phenotype of human colorectal cancer hepatic metastases. *Anticancer Research*: October 2001: 21: pp 2713-2718.

**Ryan MF, Murphy JP, Smith AJ:** Computed tomography of obturator hernias. *Canadian Association of Radiologists Journal*: December 2001: 52: pp 366-8.

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

**Brenneman FD:** Critical Care Medicine Symposium, Toronto, Ontario, October 2001. Abdominal Compartment Syndrome.

**Brenneman FD:** Ontario Association of General Surgeons Annual Meeting, Toronto, Ontario, November 2001. Damage Control Surgery in the Community.

**Brenneman FD:** DCIEM, Fluid Resuscitation in Combat Conference, Toronto, Ontario, October 2001. Fluid resuscitation at a major trauma centre.

**Brenneman FD:** Trauma Association of Canada meeting, Whistler, British Columbia, April 2002. Moderator of Scientific Session.

**Brenneman FD:** Emergency Department - Grand Rounds, Trillium Health Centre, Mississauga, Ontario, November 2001. Trauma Care in Ontario - Who & When to transfer.

**Hanna SS:** Nanjing First Hospital, Nanjing, China, May 2002. Pancreatic Resection for Metastatic Renal Cell Carcinoma: Presentation, Treatment and Outcome.

**Holloway CMB:** Surgical Oncology Network Symposium, Toronto, Ontario, October 2001. "Breast Cancer - A Systemic Disease?".

**Holloway CMB:** Annual Update in General Surgery, 42nd Annual Course for Practising Surgeons, Toronto, Ontario, April 2002. "Diagnostic Modalities in Breast Disease".

**Holloway CMB:** The Breast Cancer Site Group of Oncology Continuing Education, University of Toronto. Metro Convention Centre., Toronto, Ontario, June 2002. Controversies in the Etiology, Detection and Treatment of Breast Cancer: 2002. "Prevention and Treatment of Local Breast Recurrence".

**Holloway CMB:** Surgical Oncology Network Teleoncology Seminar., Toronto, Ontario, October 2001. Management of Early Breast Cancer.

**Holloway CMB:** Breast Site Group. Sunnybrook Campus., Toronto Ontario, February 2002. The Development of a Phase I/II Clinical Trial of Radioguided Surgery of Ductal Carcinoma in situ of the Breast.

**Smith AJ:** Telemedicine for Family Doctors in Ontario (Host: A.Smith), Toronto, Ontario, May 2002. Colon cancer for Family MDs.

**Smith AJ:** North York General Hospital Surgery Grand Rounds, Toronto, Ontario, May 2002. Lymph Node Retrieval and Assessment in Stage II Colorectal Cancer.

**Smith AJ:** Focus on Gastrointestinal Oncology 2001 (Cancer Care Ontario), Toronto, Ontario, September 2001. Management of Locally Recurrent Rectal Cancer.

**Smith AJ:** Tele Oncology Rounds Ontario (TORO), Toronto, Ontario, November 2001. Management of Rectal Cancer.

**Smith AJ:** Ontario Dental Association National Meeting, Toronto, Ontario, April 2002. Preventing Colorectal Cancer.

**Smith AJ:** Telemedicine for Family Doctors in Ontario (Host: A.Smith), Toronto, Ontario, May 2002. Prostate cancer for Family MDs.

**Smith AJ:** Wellspring, Toronto, Ontario, May 2002. What's New in Colorectal Cancer Treatment and Research?

**Smith AJ:** Wellspring, Oakville, Ontario, June 2002. What's New in Colorectal Cancer Treatment and Research?

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

2001 Research Summer Studentship Award Program. *Smith AJ, Greco, E: Research Administration, Sunnybrook and Women's College Health Sciences Centre* (\$1,600 2001).

A Population Based Study of the Outcome of Surveillance Mammography after Treatment for Primary Breast Cancer. *Paszat L, Bondy S, Coyle D, Grunfeld E, Holowaty E, Benk V, Tu D, Holloway C, Shumak R, Sawka C, Van Walraven C, Vallis K: Canadian Breast Cancer Research Initiative.* (\$286,180 2000 - 2002).

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)* (\$500,000 1999 - 2002).

Colorectal Cancer Database. *Smith AJ, Hanna SS: Pharmacia and Upjohn* (\$60,000 1999 - 2001).

Experiences of Rectal Cancer Patients Undergoing Aggressive Multimodal Treatment. *Crooks, D, Smith, AJ: CIHR* (\$32,000 2001 - 2002).

Mammographic densities and risk of breast cancer. *Boyd, NF, Fishell E, Hanna W, Holloway C, Jong R, Tritchler DL, Wright B: National Institute for Health (NIH) (US \$)* (\$301,851 1999 - 2002).

Multidisciplinary breast cancer studies. *Lickley L, Trudeau M, Hanna W, Kahn H, McCready D, Blondal J, Seth A, Holloway C: Women's College Hospital Research Fund* (\$260,000 1997 - 2001).

Multimodal Change Initiative to Improve Colorectal Cancer Staging in Ontario. *Smith AJ, Wright F, Law C, Ryan D: Continuing Education, University of Toronto* (\$5,000 2001 - 2002).

Novel radiopharmaceuticals for radioguided surgery of ductal carcinoma in situ of the breast. *Reilly R, Holloway C, Catzavelos C, Sandhu J, Hendler A: US Army Diagnostic and Surgical Breast Imaging Award (\$364,410 2000 - 2003).*

Novel radiopharmaceuticals for radioguided surgery of ductal carcinoma in situ of the breast. *Raymond M. Reilly R, Holloway C, Catzavelos C, Sandhu J, Hendler A: Canadian Breast Cancer Research Initiative (CBCRI)(Declined) (\$232,043 2000 - 2003).*

The role of anaemia in the pathobiology of colorectal hepatic metastases. *Smith AJ: Sunnybrook Trust for Medical Research (\$38,000 2000 - 2001).*

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. *McCready DR, Lickley HLA, Holloway C, Haigh P, Eassen A: National Surgical Adjuvant Breast and Bowel Project (NSABP, B-32) (\$207,000 2000 - 2002).*

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 - 2004).*

Ten-year breast cancer survival at what cost in human and physical terms?: A case-control study of long-term survivors of breast cancer and their physical and functional well-being. *Pritchard KI, Hanna WM, Lickley HLA, Narod S, Sawka C, Hawker G, Rubin L, Chiamvimonvat V Deboer G: National Cancer Institute of Canada (\$167,926 2001 - 2003).*

Ten-year breast cancer survival; at what cost in human and physical terms?: A case-control study of long-term survivors of breast cancer and their physical and functional well-being. *Trudeau ME, Blondal J, Lickley HLA, Narod S, McCready D, Sawka C, Hawker G, Doane F, Rubin L, Miller J, Chiamvimonvat V: National Cancer Institute of Canada, Breast Cancer Initiative (\$318,349 1997 - 2001).*

The role of angiogenesis in tumor cell invasion. *Lickley HLA, Seth A, Hanna WM, Catzavelos C: Bennett Family Foundation (\$250,000 2000 - 2001).*

## **HONOURS RECEIVED**

**Chu P:** Department of Surgery Surgical Skills Centre Distinguished Education Award, May 2002.

**Chu P:** Sunnybrook Hospital Peters-Boyd Academy Teaching Award, May 2002.

**Ross TM:** Marv Tile Award, April 2002.

## 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. S. Tuli - Assistant Professor**

## PUBLICATIONS

**Fazl M, Pirouzmand F:** Intraoperative Reduction of Locked Facets in the cervical spine by use of a modified interlaminar spreader: Technical note. *Neurosurgery*, Vol. 48, No. 2 San Diego: 2001: pp 444-446.

**Midha R, Fehlings MG:** Comment: Polyethylene glycol rapidly restores physiological functions in damaged sciatic nerves of guinea pigs by Donaldson et. al. *Neurosurgery*: January 2002: 50: pp 156-157.

**Mollanji R, Papaiconomou C, Boulton M, Midha R, Johnston M:** Comparison of cerebrospinal fluid transport in fetal and adult sheep. *American Journal of Physiology*: October 2001: 281: pp R1215-1223.

**Prasad S.S.V. Vannemreddy, Rowed DW, Bharatwal NN:** Post-traumatic syringomyelia: predisposing factors and prognostic indicators. *British Journal of Neurosurgery*: July 2002: 16: pp 277-284.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Fazl M:** 24th Annual British Virgin Islands Medical Conference, British Virgin Islands, February 2002. Long Term Sequela of Head Injuries.

**Midha R:** 14th Annual Bethesda Spine and Peripheral Nerve Workshop, USUHS, Bethesda, Maryland, June 2002. 2 day faculty for cadaveric nerve dissection and nerve repair course.

**Midha R:** Update on peripheral nerve surgery, 37th Annual Meeting, Canadian Congress of Neurological Sciences, Vancouver, BC, June 2002. Brachial plexus injuries: anatomy and management.

**Midha R:** American Association of Neurosurgeons 2002 Annual Meeting, Chicago, Illinois, April 2002. Classification and evaluation of nerve injury. Practical clinic: Peripheral nerve injuries, entrapments and tumors: examination and evaluation.

**Midha R:** 18th Annual Meeting of AANS/CNS Spine and Peripheral Nerves, Orlando, Florida, March 2002. Course Director, Special Course II: Essentials of Peripheral Nerve Surgery.

**Midha R:** 18th Annual Meeting of AANS/CNS Spine and Peripheral Nerves, Orlando, Florida, February 2002. Moderator, Scientific Session II: Controversies in Peripheral Nerve Disorders.

**Midha R:** 14th Annual Bethesda Spine and Peripheral Nerve Workshop, USUHS, Bethesda, Maryland, June 2002. Principles of nerve regeneration and repair lecture.

**Midha R:** Congress of Neurological Surgeons, San Diego, California, September 2001. Supraclavicular exposure of the brachial plexus.

**Midha R:** 37th Annual Meeting, Canadian Congress of Neurological Sciences, Vancouver, British Columbia, June 2002. Update on peripheral nerve surgery, Course Director and Chair.

## 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 imaging of neural tissue following trauma. *Stanisz GJ, Schwartz ML, Henkelman RM, Midha R: Canadian Institutes of Health Research - Canadian Neurotrauma Research Program* (\$122,642 2000 - 2002).

Use of synthetic nerve grafts to improve nerve regeneration. *Midha R: Ontario Government, Premier's Research Excellence Award* (\$150,000 2001 - 2006).

## HONOURS RECEIVED

**Fazl M:** 2002 Alan Hudson Neurosurgery Faculty Teaching Award, May 2002.

**Midha R:** Annual Marvin Tile Award, SWCHSC, University of Toronto, June 2002.

## **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 - Assistant Professor**

**Dr. M.H. Ford - Lecturer**

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

**Dr. H. Hall - Professor**

**Dr. P.J. Holliday - Research Associate**

**Dr. R.M. Holtby - Assistant Professor**

**Dr. G.A. Hunter - Professor**

**Dr. H.J. Kreder - Associate Professor**

**Dr. B.E. Maki - Associate 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, Terry S:** Limited Open Reduction and Internal Fixation in Distal Radius Fractures. In: Master Techniques in Orthopaedic Surgery: The Wrist (Richard Gelberman, ed). Lippincott Williams & Wilkins, Philadelphia 2002: pp 65-73.

**Barker D, Reid D, Cott C, and Fernie GR:** The views and meanings of wheelchair use in elderly stroke survivors. Full paper proceedings of the International Conference on Technology and Aging. Toronto: 2001: pp 10-16.

**Bhandari M, Sprague S, Richards RR, Schemitsch EH:** The Quality of Reporting of Randomized Trials in the Journal of Bone and Joint Surgery from 1988-2000. Control Clin Trials: December 2001: pp 338-396.

**Boyer, MI, Axelrod, TS:** External Fixation. In: Master Techniques in Orthopaedic Surgery: The Wrist (Richard Gelberman, ed). Lippincott Williams & Wilkins, Philadelphia 2002: pp 39-46.

**Chow E, Wong R, Connolly R, Hruby G, Franssen E, Fung KW, Vachon M, Andersson L, Pope J, Holden L, Szumacher E, Schueller T, Stefaniuk K, Finkelstein J, Hayter C, Danjoux C:** Prospective assessment of symptom palliation for patients attending a rapid response radiotherapy program: feasibility of telephone follow-up. Journal of Pain and Symptom Management: August 2001: 22: pp 649-656.

**Dalton AJ, Maxwell DG, Kreder HJ, Borkhoff CM:** Prospective clinical evaluation comparing standard axillary crutches with the hand free crutch. Physiotherapy Canada: April 2002: 54(2): pp 110-115.

**DJG Stephen MD, P Wolnsky MD, K Koval MD:** Controversies in intramedullary nailing of the femoral shaft. Journal of Bone and Joint Surgery (American): September 2001: 83, No. 9: pp 1404-1413.

**DP Reidy, D Houlden, PC Nolan, M Kim, JA Finkelstein:** Evaluation of electromyographic monitoring during insertion of thoracic pedicle screws. Journal of Bone and Joint Surgery (British): September 2001: 83-B: pp 1009-1014.

**Eshkenazi U, Dabby D, Tolessa, E., Finkelstein, J:** Early retropulsion of titanium threaded cages in posterior lumbar interbody fusion: A report of two cases. Spine: July 2001: 26: pp 1073-1075.

**Fernie GR and Milner M:** An Eventful Conference. Gerontechnology: December 2001: 1, No. 2: pp 119-121.



**Hall H:** Acute Care: Non Trauma. In: Orthopedic Knowledge Update: Spine 2 (Fardon D, Garfin S, eds). American Academy of Orthopedic Surgeons, Rosemont Illinois: 2002: pp 153-166.

**Hall H:** Orthotics and Lumbar Pain. Patient Care; The Practical Journal for Canadian Primary Care Physicians: August 2001: 12(8): pp 24-25.

**Inoue T, Yamazaki NY and Fernie Gr:** Evaluation of transferring methods from bed to wheelchair based on biomechanical measurement. Full paper in Proceedings of International Conference on Technology and Aging Toronto: 2001: pp 60-65.

**Jaglal SB, Santaguida L, Kreder HJ, Naglie G, Coyte PC, Scott J, Schatker J:** The At Home Early Discharge (AHEAD) program for hip fracture patients: Results of a pilot study. Physiotherapy Canada: April 2002: 54(2): pp 102-109.

**Kreder HJ:** Commentary: Surgery was More Effective than Orthosis for Hallux Valgus. ACP Journal Club/Annals of Internal Medicine: January 2001: 135(3): pp 104.

**Kreder HJ:** Outcome Assessment and Evidence Based Practice. In: Orthopaedic Knowledge Update 7 (Kenneth J. Koval, ed). American Academy of Orthopaedic Surgeons, Rosemont, Illinois: 2002: pp 95-99.

**Kumar MN, Jacquot F, Hall H:** Long-term follow-up of functional outcomes and radiographic changes at adjacent levels following lumbar spine fusion for degenerative disc disease. European Spine Journal: August 2001: 10(4): pp 309-13.

**Maki BE, Zecevic A, Bateni H, Kirshenbaum N and McIlroy WE:** Cognitive demands of executing rapid postural reactions: does aging impede attentional switching? NeuroReport: September 2001: 12: pp 3583-3587.

**Mihailidis A and Fernie GR:** Intelligent automated cueing to guide people with dementia through ADL tasks. Proceedings of the International Conference on Technology and Aging. Toronto, Ontario: 2001: pp 1-3.

**Mihailidis A, Fernie GR, Barbenel J:** Using artificial intelligence to assist people with dementia to be more independent. World Congress on Medical Physics and Biomedical Engineering Chicago, Illinois: 2000: CD-Rom

**Mihailidis A, Fernie GR, Barbenel, J:** The COACH: a computerized cueing device to help people with dementia to be more independent. Proceedings in: Rehabilitation Engineering and Assistive Technology Society of North America (Winters J, ed). RESNA Press, Arlington, Virginia: 2001: pp 1-3.

**MY Kim, DP Reidy, PC Nolan, JA Finkelstein:** Transverse sacral fractures: case series and literature review. Canadian Journal of Surgery: October 2001: 44: pp 359-363.

**Quant S, Maki BE, Verrier MC and McIlroy WE:** Passive and active lower-limb movements delay upper-limb balance reactions. NeuroReport: August 2001: 12: pp 2821-2825.

**Richards R:** Commentary - JBJS Classics - Inferior Capsular Shift for Involuntary Inferior and Multidirectional Instability of the Shoulder. A Preliminary Report. Journal of Bone and Joint Surgery: October 2001: 83A: pp 1586.

**Richards R:** Commentary: Arthroscopic Capsular Release for the Treatment of Refractory Postoperative or Postfracture Shoulder Stiffness. Journal of Bone and Joint Surgery: December 2001:

**Richards R:** Fractures of the shafts of the radius and ulna. In: Rockwood and Green's Fractures in Adults 5th Edition Lippincott Williams & Wilkins, Philadelphia, Pennsylvania: 2001: pp 869-920.

**Richards, R:** General Deep Approaches: Anterior Approaches. In: Techniques in Shoulder and Elbow Surgery (Dr. Shawn O'Driscoll, ed). Lippincott, Williams & Wilkins, Philadelphia, Pennsylvania: 2002:

**Richards, Robin R:** Arthrodesis of the Osteoarthritic Wrist. In: The Wrist. 2nd Edition (Richard H. Gelberman, ed). Lippincott Williams & Wilkins, Philadelphia, Pennsylvania: 2002: pp 249-266.

**Santaguida PL and Fernie GR:** Efficacy of powered lifting devices relative to minimizing loads to the low-back. International Conference on Technology and Aging. Toronto, Ontario: 2001: pp 96.

**Wai EK, Kreder HJ, Williams JI:** Arthroscopic debridement of the knee for osteoarthritis in patients 50 years of age or older: Utilization and outcomes in the province of Ontario. Journal of Bone and Joint Surgery: January 2002: 84A: pp 17-22.

**Whelan DB, Bhandari M, McKee MD, Guyatt G, Kreder HJ, Stephen DJG, Schemitsch EH:** Inter-observer variation in the assessment of the healing of tibial fractures following intramedullary fixation. *Journal of Bone and Joint Surgery, British Vol: January 2002: 84-B (1): pp 15-18.*

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

**Axelrod TS:** AO/ASIF AO International, Davos, Switzerland, December 2001. Chairman, AO/ASIF Hand Surgery Course, Davos, Switzerland Presentations: Arthrodesis in the Thumb Ray, Distal Radius Malunion. Leader Multiple Discussion Groups, Laboratories: Distal Radial Osteotomy, Thumb Arthrodesis, Unicondylar Fracture Fixation.

**Axelrod, TS:** Smith and Nephew Inc, Canada, Toronto, Ontario, Jun 22, 2002 - Jun 24, 2002. Contemporary Concepts of Trauma Management : Primary Prosthesis for Supracondylar Humerus Fractures in the Elderly, Distal Radius Malunions. Lab Session: ORIF Supracondylar Humerus Fractures, Moderator: Distal Radius Session.

**Cameron JC:** Rheumatology Spring Rounds., Peterborough, Ontario, April 2002. (1) Indications for unicompartmental knee arthroplasty versus TKR versus HTO . (2) Indications for meniscus and articular cartilage transplantation. (3) An approach to patella instability.

**Cameron JC:** Arthritis Society., Milton, Ontario., September 2001. Advances in Joint Replacement Surgery.

**Cameron JC:** Lunch & Learn Lecture to Nurses., Toronto, Ontario, October 2001. Indications for Arthroscopy.

**Cameron JC:** Rocky Mountain Traumatological Society, Colorado, U.S.A., January 2002. Poster: Management of Medical Collateral Ligament Laxity.

**Fernie GR:** 5th International Care/Case Management Conference of the American Society on Aging, Vancouver, British Columbia, July 2001. Assistive technology and home modification strategies: new ways to promote your clients' independence.

**Fernie GR:** Annual lecture sponsored by the Cove Guest Home., Sydney, Nova Scotia, March 2002. Innovative technologies for independence.

**Fernie GR:** Engineering and Physical Sciences Research Council EQUAL Initiative Network Meeting., Glasgow, Scotland, April 2002. Technological innovations to reduce dependency and help caregivers: a Canadian perspective.

**Finkelstein JA:** Pfizer Pharmaceutical - Current issues in management for arthritis, Inn at Manitou, Ontario, October 2001. Back pain: human misery or growth industry?

**Finkelstein JA:** Canadian Spine Society., Vernon, British Columbia, March 2002. Flexion distraction injuries of spine: Single level fixation.

**Finkelstein JA:** Canadian Spine Society., Vernon, British Columbia, March 2002. Quality of life assessment following surgery for metastatic spine disease.

**Hall H:** Yukon Workers' Compensation Health and Safety Board, Whitehorse, Yukon, March 2002. 1. Management of Back Pain. 2. Keynote Address: The Back Doctor. 3. Understanding Back Pain (public presentation).

**Hall H:** CBI Health, Hamilton, Ontario, April 2002. Back Pain and a Successful Return to Work.

**Hall H:** Chronic Pain Seminar / Wellserve, Guelph, Ontario, May 2002. Early and Proper Treatment of Back Injuries.

**Hall H:** Eastern Rehabilitation, Halifax, Nova Scotia, November 2001. Elements of Effective Rehabilitation.

**Hall H:** CBI Health, Woodbridge, Ontario, May 2002. Facilitating Return to Work.

**Hall H:** CBI Health, London, Ontario, January 2002. Identifying the Patterns of Back Pain.

**Hall H:** Emerging Concepts in Spine Surgery: HealthStream / Educational Design, Key Largo, Florida, May 2002. In The End It's All About Pain Management.

**Hall H:** CBI Health, Saskatoon, Saskatchewan, October 2001. Management of Workplace Injuries in Family Practice.

**Hall H:** CBI Health, Regina, Saskatchewan, October 2001. Management of Workplace Injuries in Family Practice.

**Hall H:** Medisys, Toronto, Ontario, June 2002. Managing Back and Soft Tissue Injury.

**Hall H:** CBI Health, Kitchener, Ontario, February 2002. Managing Knee Pain.

**Hall H:** CBI Health, Windsor, Ontario, June 2002. Managing Return to Work in Family Practice.

**Hall H:** CBI Health, Toronto, Ontario, June 2002. Managing Work Related Injuries.

**Hall H:** Ontario Dental Association, Toronto, Ontario, April 2002. More Advice from the Back Doctor.

**Hall H:** Workplace Safety and Insurance Board of Ontario, Ottawa, Ontario, November 2001. Return to Work Strategies.

**Hall H:** TVO, Toronto, Ontario, February 2002. Simulation Training for Surgeons.

**Hall H:** Stryker Spine, Chamberlain, South Dakota, November 2001. Spinal Horizons Symposium; 1) Complications of Cervical Surgery, 2) Physical Examination of the Spine.

**Hall H:** OPC, Mississauga, Ontario, November 2001. The Importance of Returning to Work.

**Hall H:** WSIB, Hamilton, Ontario, June 2002. The Importance of Returning to Work.

**Hall H:** WSIB, Windsor, Ontario, June 2002. Tools for Navigating and Understanding Injuries in the Workplace.

**Kreder HJ:** Contemporary Course on Trauma Management, Toronto, Ontario, June 2002. Distal Femoral Supracondylar Fractures: Standard Plating versus LISS plating.

**Kreder HJ:** Contemporary Course on Trauma Management, Toronto, Ontario, June 2002. Immediate Management of Acetabular Fractures.

**Kreder HJ:** Whistler trauma symposium, Whistler, British Columbia, March 2002. Indications for bone grafting of forearm fractures.

**Kreder HJ:** AO North America, Toronto, Ontario, May 2002. Pelvic and Acetabular Fracture Management Course: The Acute Pelvic Injury.

**Kreder HJ:** Whistler trauma symposium, Whistler, British Columbia, March 2002. Percutaneous fixation of distal radius fractures.

**Kreder HJ:** AO / ASIF Advanced Nursing Course, Toronto, Ontario, July 2001. Treatment Decisions in Intramedullary Nailing of Femoral Fractures.

**Kreder HJ:** AO / ASIF Advanced Nursing Course, Toronto, Ontario, July 2001. Treatment of Acetabular Fractures.

**Maki BE:** American Physical Therapy Association, Symposium on “Dynamic balance control through change-in-support strategies”, Boston, Massachusetts, February 2002. Balance recovery via triggered movements of the lower and upper limbs: correlates and determinants of altered postural behavior in older populations.

**Maki BE:** North York General Hospital (Senior’s Centre), Physiotherapy Education Session, Toronto, Ontario, November 2001. Control of limb movements to preserve postural balance: age-related impairment and the implications for fall prevention.

**Maki BE:** International Conference on Technology and Aging, Toronto, Ontario, September 2001. How to increase safety with stair rails and grab bars.

**Maki BE:** International Conference on Technology and Aging, Toronto, Ontario, September 2001. Technology for the study of instability and falls.

**Maki BE:** Department of Medicine Grand Rounds, Sunnybrook and Women's College Health Sciences Centre, Toronto, Ontario, December 2001. Why aren't you falling? Control of limb movements to preserve postural balance in young and older adults.

**Malcolm BW:** Workplace Safety and Insurance Appeals Tribunal - Training Day, Toronto, Ontario, September 2001. Low Back Pain in the Workplace.

**Murnaghan JJ:** 2nd Year George Brown Orthotics/Prosthetists Students, Toronto, Ontario, November 2001. Amputation Surgery of the Lower Limb.

**Murnaghan JJ:** Workplace Safety and Insurance Board - Continued Medical Education/Journal Club, Toronto, Ontario, March 2002. Compartment Syndromes.

**Murnaghan JJ:** Ontario Association of Amputee Care, Ottawa, Ontario, May 2002. Management of the Upper Extremity in the Presence of Brachial Plexus Injury.

**Murnaghan JJ:** Canadian Anesthesiologists Society, Victoria, British Columbia, June 2002. Predictors of Blood Transfusion Following Elective Total Hip Arthroplasty.

**Richards RR:** Ontario Medical Association, Toronto, Ontario, May 2002. Assessment of Shoulder Pain: Pearls and Pitfalls.

**Richards RR:** Alpha Club, St. Lucia, February 2002. Fixation of Fractures of Both Bones of the Forearm.

**Richards RR:** Alpha Club, St. Lucia, February 2002. Fixation of Radial Head Fractures.

**Richards RR:** American Orthopaedic Association - Canadian Orthopaedic Association, Victoria, British Columbia, June 2002. Scaphoid Fractures and Non-Unions: Still Unsolved. Moderator - Andrew J. Weiland. Panelists: Richard Gelberman and Robin Richards.

**Richards RR:** The Canadian Orthopaedic Association 14th Annual Basic Science Course, Ottawa, Ontario, October 2001. Treatment of Avascular Necrosis in Adults.

**Schatzker J:** Basic AO course, Warsaw, Poland, October 2001. Course Chairman and lecturer.

**Schatzker J:** Annual Basic and Advanced course. Course organizers' seminar faculty, Davos, Switzerland, December 2001. Intra-articular osteotomies of the proximal tibia.

**Schatzker J:** Annual Meeting Brazilian Orthopaedic and Trauma Society, Bello Horizonte, October 2001. Invited guest lecturer. Comprehensive Classification of Fractures. The surgical treatment of tibial plateau fractures. The surgical treatment of supracondylar fractures, and update. The biological and mechanical basis of operative fracture treatment. Brazilian AO Alumni Association: The history of AO.

**Schatzker J:** Polish Society of Surgeons 60th Jubilee Meeting, Warsaw, Poland, September 2001. Presented invited lecture: The changing concepts of internal fixation.

**Schatzker J:** Smith & Nephew, Davos, Switzerland, January 2002. Smith & Nephew Fracture Forum.

**Whyne C:** Hamilton Regional Cancer Centre, Hamilton, Ontario, June 2002. Biomechanics of Spinal Metastases.

**Whyne C:** Conference on Women and Engineering, Kingston, Ontario, November 2001. Engineering in Health and International Development.

**Whyne C:** Canadian Breast Cancer Foundation, Ontario Chapter, Toronto, Ontario, June 2002. Metastatic Burst Fracture Risk Prediction Using Biomechanically Based Equations.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

A multiprocessor workstation for finite element analysis to investigate the biomechanics of the metastatically involved thoracic spine. *Whyne C: NSERC Equipment Grant (\$25,612 2001 - 2002).*

A novel technique for percutaneous vertebroplasty in the treatment of metastatically involved vertebral bodies. *Whyne C, Finkelstein J: US Army Medical Research and Material Command, Department of Defense Breast Cancer Research Concept Award (\$98,000 2000 - 2001).*

An Economic Evaluation of Internal Fixation as Compared with Bipolar Hemiarthroplasty for Displaced Femoral Neck Fractures. *Jaglal, Susan & Kreder, Hans, Goel, Vivek Schatzker, Joseph: Orthopaedic Trauma Association (\$30,000 1998 - 2001).*

An economic evaluation of internal fixation as compared with bipolar hemiarthroplasty for displaced femoral neck fractures. Grant awarded in U.S. dollars. *Jaglal S, Kreder HJ, Goel V, Schatzker J: Orthopaedic Trauma Association (\$30,000 1998 - 2002).*

Assistive Technology for Mobility. *Fernie GR: Ontario Ministry of Health and Ontario Rehabilitation Technology Consortium (\$174,500 2001 - 2002).*

Balance. *Maki BE, Fernie GR: Medical Research Council of Canada (\$340,000 1999 - 2004).*

Biomechanical comparison of intermedullary nail and blade plate fixation for tibiototalcaneal arthrodesis. *David Stephen: Smith & Nephew Inc. (\$10,000 2002).*

Biomechanical comparison of intermedullary nail and blade plate fixation for tibiototalcaneal arthrodesis. *DJG Stephen, C Whyne PhD: Synthes Canada (\$10,000 2002).*

Biomechanical comparison of intermedullary nail and blade plate fixation for tibiototalcaneal arthrodesis. *DJG Stephen, C. Whyne: Zimmer funding via the Research Committee at University of Toronto (\$10,000 2002).*

Biomechanical comparison of intramedullary nail and blade plate fixation for tibiototalcaneal arthrodesis. *Whyne C, Stephen D: University of Toronto, Zimmer Funds (\$10,000 2002 - 2003).*

Biomechanical comparison of intramedullary nail and blade plate fixation for tibiototalcaneal arthrodesis. *Whyne C, Stephen D: Synthes (\$10,000 2002 - 2003).*

Biomechanical comparison of intramedullary nail and blade plate fixation for tibiototalcaneal arthrodesis. *Whyne C, Stephen D: Smith and Nephew (\$10,000 2002 - 2003).*

Biomechanical stability of intramedullary nailed high proximal low-density tibial fractures with cement augmented proximal screws. *Whyne C, Kreder H: Connaught New Staff Matching Grants (\$16,500 2002 - 2003).*

Biomechanical stability of intramedullary nailed high proximal tibial fractures with oblique screws. *Whyne C, Stephens D: Zimmer Canada (\$33,592 2000 - 2001).*

Clinical trials stage of SoleSensor: A balance-enhancing shoe insert. *Fernie GR, Perry SD, Maki BE: Canadian Institutes of Health Research (\$99,964 2002 - 2003).*

Control of limb movements to recover balance: effect of environment and activity. *Maki BE, McIlroy WE, Fernie GR: Medical Research Council of Canada (\$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 - 2004).*

Dean's Research Fund, University of Toronto, Ontario. *Albert Yee: Faculty of Medicine: Dean's Research Fund (\$10,000 2001).*

Development & validation of radiologic predictors of spinal stability in an in vivo metastatic model. *Mousavi P, Whyne C (Advisor): NSERC Summer Student Research Award (\$5,625 2002).*

Development of a metastatic femur model to study pressurization during prophylactic fixation. *Cari Whyne, Hans Kreder: Dean's Fund, University of Toronto (\$10,000 2001 - 2002).*

Examining the relationship between evidence-based practice and physician and patient opinion. *Wright JG, Kreder HJ, Coyte PC, Glazier RH, Mahomed NN, Hawker GA: Arthritis Society (\$65,000 1999 - 2002).*

Examining the Relationship Between Evidence-Based Practice and Physician and Patient Opinion. *Wright, J.G., Kreder HJ, Hawker GA, Mahomed NN, Coyte PC, Glazier RH: Medical Research Council of Canada (\$212,988 1999 - 2002).*

Functional outcome of combined pelvic and acetabular fractures (outcome study). *Stephen D, Kreder H, Stephen D: AO - ASIF (\$120,000 1997 - 2001).*

Functional outcome of sacroiliac screw fixation for pelvic fractures. *Stephen DJG, Kreder HJ: AO - ASIF (\$120,000 2001).*

How are you now? Testing a model of recovery from the patient's perspective one year after traumatic injury of an extremity. *Beaton D, Schemitsch E, Gignac M, Davis A, Devins G, Kreder HJ, Franche R, Bombardier, Reardon RC: CIHR (\$72,339 2002 - 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).*

Integrin mediated mechanotransduction of cyclic hydrostatic pressure in rabbit intervertebral disc cells cultured in vitro. *A Yee, Johnston M., Yang B., Whyne C., Johnstone B: Dean's Fund (\$10,000 2001 - 2002).*

Integrin mediated mechanotransduction of cyclic hydrostatic pressure in rabbit intervertebral disc cells cultured in vitro. *A Yee, Johnston M., Yang B., Whyne C., Johnstone B: Sunnybrook Trust (\$45,000 2001 - 2002).*

Integrin mediated mechanotransduction of cyclic hydrostatic pressure in rabbit intervertebral disc cells cultured in vitro. *A Yee, Johnston M., Yang B., Whyne C., Johnstone B: North American Spine Society (\$81,000 2001 - 2002).*

Integrin mediated mechanotransduction of cyclic hydrostatic pressure intervertebral disc cells cultured in vitro. *Albert Yee: North American Spine Society: Operating Grant (\$70,000 2001).*

Operating Grant, Sunnybrook & Women's College Health Sciences Centre. *Albert Yee: Sunnybrook Trust (\$25,000 2001 - 2002).*

Organization of International Conference on Technology and Aging. *Fernie GR: Economic Development and Trade, Government of Ontario (\$20,000 2001).*

Organization of International Conference on Technology and Aging. *Fernie GR: Ministry of Health and Long Term Care - Government of Ontario (\$100,000 2001).*

Planning and organization of International Conference on Technology and Aging to be held in conjunction with a Federal/Provincial/Territorial meeting of ministers responsible for senior citizens. *Fernie GR: Ontario Min of Energy, Science & Technology Ontario Seniors' Secretariat (\$150,000 2000 - 2001).*

Planning and organizing Canadian Institutes of Health Research Mobility Consensus Conference, Toronto. *Fernie GR, Richards C, Olney S, Hebert R, Frank J, Frank C: Canadian Institutes of Health Research (\$150,000 2002).*

Pre-commercialization stage of "LifeRail": a new concept for helping people at risk of falls and with mobility restrictions to safely ascend and descend stairs. *Fernie GR, Maki BE: Canadian Institutes of Health Research (\$99,850 2001 - 2002).*

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. *Davis A, Mahomed N, Kreder HJ, Gross A, Schemitsch E, Davey RJ, Bogoch E: CIHR* (\$68,365 2001 - 2004).

Predictors of Disability Outcomes Following Revision Total Knee Arthroplasty. *Davis A., Gross AE, Davey JR, Mahomed N, Kreder HJ, Schemitsch EH, Szalai JP, MacDonald S, Gignac M, Garbuz D, Sekundiak T, Bogoch E,; Canadian Institute of Health Research* (\$68,000 2001 - 2003).

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 - 2003).

Senior Scientist career award. *Maki BE: Medical Research Council of Canada* (\$350,000 1999 - 2004).

Stair safety and stair use among community-dwelling seniors. *Edwards NC, Lockett DM, Sveistrup H, Maki BE, Robitaille Y, Scott VJ, Trickey F, Rail G: Canadian Institutes of Health Research* (\$256,944 2001 - 2003).

The At Home Early Discharge (AHEAD) Project for Hip Fracture Patients. *Jaglal S, Kreder HJ, Coyte, P, Naglie G, Schatzker J: MRC* (\$284,289 1997 - 2001).

The Canadian Arthritis Network. *Cruz TF, Kreder HJ, 124 other co-investigators: Network Centres of Excellence* (\$3,800,000 1998 - 2002).

University of Toronto, Division of Orthopaedic Surgery Research Committee. *Dr. Cari Whyne, D. Stephen, MD: Zimmer - University of Toronto Partnership Program* (\$10,000 2002).

Upgrading the Orthopaedic Biomechanics Laboratory for Clinically Translational Research. *Whyne C: Canada Foundation for Innovation, New Opportunities Award and the Ontario Innovation Trust* (\$137,460 2001 - 2002).

Validity and utility of biomechanically determined guidelines in metastatic burst fracture risk assessment. *Whyne, C, Finkelstein J, Chow, E: Canadian Breast Cancer Foundation* (\$38,000 2000 - 2001).

**HONOURS RECEIVED**

**Fernie GR:** Dr. Jonas Salk Award, June 2002.

**Murnaghan JJ:** Best Paper Award entitled Evaluating the Effectiveness of a Two-year Curriculum in a Surgical Skills Centre. Association for Surgical Education Annual Meeting, April 2002.

#### **DIVISION OF PLASTIC SURGERY**

**Dr. O. Antonyshyn - Assistant Professor**

**Dr. M. Beveridge - Assistant Professor**

**Dr. P. Binhammer - Lecturer**

**Dr. M.H. Brown - Assistant Professor**

**Dr. R.C. Cartotto - Assistant Professor**

**Dr. J. Fialkov - Assistant Professor**

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

**Dr. J.L. Semple - Associate Professor (Division Head)**

#### **PUBLICATIONS**

**Simor AE, Lee M, Vearncombe M, Jones-Paul L, Barry, Gomez M, Fish J, Cartotto M, Palmer R; Loue M:** An outbreak due to multiresistant acinetobacter baumannii in a burn unit: risk factors for acquisition and management. *Infection control and hospital epidemiology*: May 2002: 23: pp 7.

**Antonyshyn O, McInerney T:** Haptic exploration and modeling in the planning of craniofacial surgery. *Craniofacial Surgery 9. Proceedings of the Ninth International Congress of the International Society of Craniofacial Surgery* (Claes Lauritzen, ed). Monduzzi Editore, Bologna, Italy: 2001: pp 61-63.

**Brown MH, Semple JL, Belchetz B, Vearncombe M, Markus M:** Microbial growth in saline breast implants and saline tissue expanders. *Plastic and Reconstructive Surgery*: June 2002: 109, No. 7: pp 2242-2246.

**Cartotto RC, Cooper A, Finland R, Fish JS, Smith T:** Early clinical experience with high frequency oscillatory ventilation for burn patients with ARDS. *Journal of Burn Care and Rehabilitation*: October 2001: 22: pp 325-33.

**Cartotto RC, Musgrave MA:** The use of nitric oxide as an adjuvant therapy in respiratory failure after burn injuries. *Journal of Burn Care and Rehabilitation*: August 2001: 22: pp 308-9.

**de Kleer N, Cohen M, Semple J, Simor A, Antonyshyn O:** Nipple piercing may be contraindicated in male patients with chest implants. *Ann Plast Surg*: August 2001: 47: pp 188-190.

**Fialkov JA, Holy C, Forrest CR, Phillips JH, Antonyshyn OM:** Postoperative infections in craniofacial reconstructive procedures. *J Craniofac Surg*: July 2001: 12(4): pp 362-368.

**Goldberg CS, Fialkov JA:** Strain Pattern in the Upper Facial Skeleton: Preliminary Model Development. *Canadian Journal of Plastic Surgery*: February 2002: 10 #1: pp 27-31.

**Krajden S, Van Brenk B, Brown MH, Semple JL:** A superiorly based, externally pedicled nasolabial flap for the repair of complex nasal tip defects. *The Canadian Journal of Plastic Surgery*: March 2002: 10, No. 2: pp 81-84.

**McKay D, Fialkov JA:** Autosomal dominant craniometaphyseal dysplasia with atypical features. *British Journal of Plastic Surgery*: March 2002: 55: pp 144-148.

**Strumas N, Antonyshyn O, Caldwell C, Mainprize J:** Multimodality imaging for precise localization of craniofacial osteomyelitis: *Craniofacial Surgery 9. Proceedings of the Ninth International Congress of the International Society of Craniofacial Surgery* (Claes Lauritzen, ed). Monduzzi Editore, Bologna, Italy: 2001: pp 273-275.

**Musgrave MA, Umraw N, Fish JS, Gomez M, Cartotto RC:** The effect of silicone gel sheets on perfusion of hypertrophic burn scars. *Journal of Burn Care and Rehabilitation*: May 2002: 23: pp 208-14.

**Simor AE, Lee M, Vearncombe M, Jones-Paul L, Barry C, Gomez M, Fish JS, Cartotto RC, Palmer R, Louie M:** An outbreak due to multiresistant Acinetobacter baumannii in a burn unit: Risk factors for acquisition and management. *Infection Control and Hospital Epidemiology*: May 2002: 23: pp 261-67.

**Strumas N, Smith S, Antonyshyn O, Fialkov J, Forrest C:** Post-traumatic Malocclusion. *Craniofacial Surgery - Proceedings of the Ninth International Congress of The International Society of Craniofacial Surgery* (Claes G.K. Lauritzen, ed). Monduzzi Editore, Bologna Italy: 2001: pp 205-207.

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

**Antonyshyn O:** Rotary Club, Willowdale Chapter, Toronto, Ontario, November 2001. Complex facial reconstruction: A Case summary.

**Antonyshyn O:** AO ASIF Maxillofacial course, Vancouver, British Columbia, July 2001. Computer Imaging and Surgical Planning.

**Antonyshyn O:** AO ASIF Maxillofacial course, Vancouver, British Columbia, July 2001. Panfacial fractures and planning.



**Beveridge M:** Rui Jin Hospital / Shanghai Second Medical University, Shanghai, Peoples Republic of China, November 2001. Contemporary Burn Treatment in Canada.

**Beveridge M:** Canadian Surgical Forum. Canadian Association of General Surgeons, Quebec City, Quebec, September 2001. I have a devil in my belly: The art of moving among medical cultures.

**Beveridge M:** Association of Surgeons of East Africa, Lusaka, Zambia, December 2001. Ptolemy and the ASEA: An Experimental Health Information Resource for Surgeons in Africa.

**Beveridge M:** War Surgery Seminar, International Committee of the Red Cross, Geneva, Switzerland, March 2002. Treating Burns with scarce resources.

**Binhammer P:** AO International, Davos, Switzerland, December 2001. Options for soft tissue coverage in the complex hand injury.

**Binhammer P:** AO International, Davos, Switzerland, December 2001. Skiers thumb: a typical injury in the alpine region.

**Fish JS:** Work Safety Insurance Board, District Presentation, February 2002. Burns in the workplace.

**Fish JS:** Winnipeg, Manitoba, June 2002. Infrared and wound healing.

**Fish JS:** American burn association, Chicago, Illinois, April 2002. Innovations in burn care.

**Fish JS:** 10th anniversary update, burn wounds and, Winnipeg, Manitoba, June 2002. Institute for bioding hostils natural research council.

**Fish JS:** American burn association, Chicago, Illinois, April 2002. Sunrise symposia; donor site dressings - what works and what doesn't Co moderator.

**Sample JL:** Discovery TV Health Channel, "Health on the Line", Toronto, Ontario, October 2001. Breast reconstruction - Breast Cancer Awareness month.

**Sample JL:** City TV, Toronto, Ontario, November 2001. Breast surgery/Plastic surgery.

**Sample JL:** Canadian Society of Plastic Surgeons 56th Annual meeting, Saint John, New Brunswick, June 2002. Educational Foundation Symposium, "Diagnosis, prognosis, staging and margins:Modern surgical management of melanoma".

**Sample JL:** The Scarborough Hospital, Department of Surgery Special Rounds, Toronto, Ontario, September 2001. Sentinel lymph node biopsy for melanoma. Who needs it and why?

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

A Model for Strain Patterns in the Upper Facial Skeleton. *Jeffrey A. Fialkov: Dean's Fund Competition for New Staff Grants, Autumn 2000 University of Toronto Faculty of Medicine (\$8,850 2001 - 2002).*

Advanced Facial Modeling for Computer-Aided Simulation and Planning of Craniofacial Surgical Procedures. *Dimitri Terzopoulos, Tim McInerney, Oleh Antonyshyn: CITO (Communications and Information Technology Ontario) (\$240,000 1998 - 2003).*

BoneSource survival following applications in craniofacial surgery: An invivo study of volume retention and revascularization. *Antonyshyn O, Fialkov J, Caldwell C: Stryker Canada (\$59,600 1999 - 2002).*

Development of Care Maps in Burn Rehabilitation. *Dr Joel Fish, Dr Manuel Gomez: St Johns Hospital , Back On Track Program (\$30,000 2000 - 2001).*

Economic evaluation of intervenous immune globulin treatment in patients with toxic epidermal necrolysis. *Dr. Joel Fish, Dr. Neil Shear, Sandra Knowles, Dr. Manuel Gomez: partnership fund competition (\$30,000 2001 - 2002).*

Educational Funding - Craniofacial Skills Lab. *Fialkov JA: Liebing- Stryker (\$50,000 2002 - 2003).*

Immunopathogenesis of drug-induced hypersensitivity syndrome. *Dr. Joel Fish, Dr. Neuman, Dr. Gomez, Dr. Cartotto, Dr. Beveridge, Dr. Neil Shear: Canadian Dermatology Foundation (\$10,000 2002).*

Is Patient Satisfaction Altered by Knowledge of Their Post-Ablative Deformity. *Rice S, Fialkov JA: Educational Foundation of the Canadian Society of Plastic Surgery (\$10,000 2002 - 2003).*

Pharmacoeconomic Evaluation of IVIG. *Dr. Joel Fish: Bayer partnership fund (\$30,000 2002).*

Strain Patterns in the Human Facial Skeleton: Finite Element Analysis Integration. *Fialkov JA: J.P. Bickell Foundation (\$12,050 2001 - 2002).*

Zygoma Fracture Outcome Study. *O. Antonyshyn, P. Binhammer: AO Foundation (\$138,000 1998 - 2002).*

**Fish JS:** Friend of Guinea Pigs, September 2001.

#### **DIVISION OF UROLOGY**

**Dr. L.K. Carr - Lecturer**

**Dr. J.G. Connolly - Professor**

**Dr. N.E. Fleshner - Assistant Professor**

**Dr. S. Herschorn - Professor**

**Dr. L.H. Klotz - Professor (Division Head)**

**Dr. R.T. Kodama - Associate Professor**

#### **PUBLICATIONS**

**Akduman B, Fleshner NE, Ehrlich L, Klotz L:** Early experience in intermediate-risk penile cancer with sentinel node identification using the gamma probe. *Urology*: July 2001: 58(1): pp 6508.

**Bondy SJ, Iscoe NA, Rothwell DM, Cort EH, Fleshner NE, Browman CP:** Trends in hormonal management of advanced prostate cancer: A population based study. *Medical Care*: 2001: 39: pp 384-96.

**Choo R, DeBoer G, Klotz L, Danjoux C, Morton GC, Rakovitch E, Fleshner N, Bunting P, Kapusta L, Hruby G:** PSA doubling time of prostate carcinoma managed with watchful observation alone. *International Journal of Radiation Oncology, Biology, Physics*: July 2001: 50(3): pp 615-20.

**Choo R, Klotz L, Danjoux C, Morton G, DeBoer G, Szumacher E, Fleshner N, Bunting P, Hruby G:** Feasibility study of watchful waiting for localized low to intermediate grade prostate cancer with selective delayed intervention based on PSA, histologic, and/or clinical progression. *Journal of Urology*: April 2002: 167: pp 1664-1669.

**Choo R, Do V, Herschorn S, DeBoer G, Danjoux C, Morton G, Cheng CH, Barak I, Preiner J:** Urodynamic changes at 18 months post-therapy in patients treated with external beam radiotherapy for prostate carcinoma. *International Journal of Radiation Oncology, Biology, Physics*: Feb 2002: 53: pp 290-296.

**Do V, Choo R, De Boer G, Klotz L, Danjoux C, Morton G, Szumacher E, Fleshner N, Bunting P:** The role of serial free/total prostate-specific antigen ratios in a watchful observation protocol for men with localized prostate cancer. *British Journal of Urology International*: May 2002: 89(7): pp 703-9.

**Fleshner N:** Vitamin E and prostate cancer. *Urologic Clinics of North America*. Feb 2002: 29(1): pp 107-13.

**Fleshner N, Kucuk O:** Antioxidant vitamins in prostate cancer prevention: Rationale and current status. *Urology* 2001:57:pp 90-94.

**Fleshner PR, Vasiliauskas EA, Kam LY, Fleshner NE, Gaienne J, Abreu MT, Targan SR:** High level perinuclear antineutrophil cytoplasmic antibody (pANCA) in ulcerative colitis patients before colectomy predicts the development of chronic pouchitis after ileal pouch-anal anastomosis. *GUT*: November 2001: 49: pp 671-7.

**Gleave ME, Goldenberg SL, Chin JL, Warner J, Saad F, Klotz LH, Jewett M, Kassabian V, Chetner M, Dupont C, Van Rensselaer S. Related Articles:** Randomized comparative study of 3 versus 8-month neoadjuvant hormonal therapy before radical prostatectomy: biochemical and pathological effects. *Journal of Urology*: August 2001: 166(2): pp 500-6.

**Gray RE, Fitch MI, Phillips C, Labrecque M, Fergus K, and Klotz LH:** Prostate cancer and erectile dysfunction: Men's experiences. *International Journal of Men's Health*: January 2002: 1(1): pp 15-29.

**Groll R, Fleshner N, Sugar L, Ezer D, Klotz LH:** Clinical significance of biopsy derived primary gleason score among radical prostatectomy candidates with Gleason 7 tumors. *Urology*: April 2002: 59: pp 551-4.

**Herschorn S, Carr LK:** Vaginal Reconstructive Surgery for Sphincteric Incontinence and Prolapse. In: *Campbell's Urology*, 8th Edition 2002 (Wein A., ed). WB Saunders Company, Philadelphia, Pennsylvania: 2002: pp 1092-1139.

**Herschorn S:** Treating the overactive bladder. *Canadian Journal of Continuing Medical Education*: Nov 2002: 13: pp 227-238.

**Herschorn S:** Injectables. In: *Female Pelvic Reconstructive Surgery* (S Stanton, P Zimmern, eds). Springer-Verlag Publishers, London, United Kingdom: 2002: pp 85-92.

**Herschorn S, Bosch R, Bruschini H, Hanus T, Low A, Schick E:** Surgical treatment of urinary incontinence in men. In: *Second International Consultation on Urinary Incontinence*. In: *Second International Consultation on Urinary Incontinence* (Abrams P, Cardozo L, Khoury S, Wein A, eds). Plymbridge Distributors Ltd., Plymouth, United Kingdom 2002: pp 785-821.

**Herschorn S, Carr LK:** Vaginal reconstructive surgery for sphincteric incontinence and prolapse. In: *Campbell's Urology* (PC Walsh, AJ Wein, ED Vaughan, Jr. AB Retik, eds). WB Saunders Company, Philadelphia, Pennsylvania 2002: pp 1092-1139.

**Hruby G, Choo R, Klotz L, Danjoux C, Murphy J, DeBoer G, Morton G, Rakovitch E, Szumacher E, Fleshner N:** The role of serial transrectal ultrasoundography in a watchful waiting protocol with localized prostate cancer. *British Journal of Urology* 2001:87: pp 643-7.

**Klotz LH:** Canada's Medicare gets mediocre marks. *Canadian Journal of Urology*: August 2001: 8(4): pp 1302-3.

**Klotz LH:** Free radicals: A gram of prevention is worth a kilogram of cure. *Our Voice*: November 2001: Fall 2001: pp 2.

**Klotz LH:** Practice variation in Urology (editorial). *Canadian Journal of Urology*: May 2002: 9(2): pp 1476.

**Klotz, LH:** Modernity, Urology, and Sept. 11. *Canadian Journal of Urology*: October 2001: 8(5): pp 1352.

**Lan Xiaoxu, Liang Jianhong, Wu Jinfeng, Laurence Klotz:** Bladder adenocarcinoma: 31 reported cases. *Canadian Journal of Urology*: October 2001: 8(5): pp 1380-83.

**Trachtenberg J, Fleshner N, Lancaster C, Casselman B:** *Eating right for life: Prostate cancer nutrition and you*. Parkhurst, Montreal, 2001.

**Venkateswaran V, Klotz LH, Fleshner N:** Selenium modulation of cell proliferation and cell cycle biomarkers in human prostate carcinoma cell lines. *Cancer Research*: May 2002: 62: pp 2540-2545.

#### INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Carr LK:** Male Health Centre Retreat, Toronto, Ontario, October 2001. Prostatitis and Interstitial Cystitis: The Same Entity?

**Dmochowski R, Herschorn S, Corcos J, Karram M, Pommerville P, Berger Y, Radomski S, Jacoby C, Foote J, Cornella J, Bent A, Chaikin D:** Multicenter randomized control trial of Uryx urethral bulking agent in treating female stress urinary incontinence. *American Urological Association*, Orlando, Florida, May 26, 2002.

**Fleshner NE:** Department of Urology, University of Minneapolis, Minnesota, July 2001. Role of Nutrition in Prostate Cancer.

**Herschorn S:** Canadian Urodynamic Professionals/Canadian Continence Foundation Annual Meeting, Oct 27, 2001. 1) Pharmacologic treatment of urinary incontinence. 2) New technologies - 3-dimensional ultrasound and MRI.

**Herschorn S:** Paul C. Peters Annual Symposium, University of Texas Dallas Southwestern, Dallas, Texas, Jan 25, 2002 - Jan 26, 2002. 1) Work-up of LUTS in men. 2) Update on periurethral injections for stress urinary incontinence. 3) What I do for my patients surgically and why.

**Herschorn S:** Ontario Urologists Forum, Nassau, Bahamas, Feb.5, 2002 - Feb 18, 2002. Clinical evaluation of investigational tools for BPH.

**Herschorn S:** Society of Urological Surgeons of Ontario, Port Carling, Ontario, June 8, 2002. Current approaches to surgical treatment of urinary incontinence.

**Herschorn S:** Canadian Urological Association, St. John's, Newfoundland, June 25, 2002. Educational forum on voiding dysfunction and incontinence: Role of bulking agents in stress urinary incontinence.

**Herschorn S:** Residents' Advanced Course in Urology, London, Ontario, Jan.27, 2002. Medical and surgical management of incontinence.

**Herschorn S:** Second International Consultation on Urinary Incontinence sponsored by WHO, Paris, France, July 1, 2001 - July 3, 2001. Surgery for male urinary incontinence; Chair of Surgical Committees.

**Herschorn S:** Visiting Professor Division of Urology, University of Ottawa, Ottawa, Ontario, Apr 23, 2002 - Apr 24, 2002. 1. Principles and challenging cases in urologic reconstruction. 2. New treatments for female stress incontinence 3. Judge in research presentations.

**Herschorn S, Buencamino, D:** Early results of intraurethral macroplastique for post-radical prostatectomy incontinence. Canadian Urological Association, St. John's, Newfoundland, June 25, 2002.

**Herschorn S, Hijaz A, Radomski S:** Long-term outcome of the artificial sphincter for post-prostatectomy incontinence. Canadian Urological Association, St. John's, Newfoundland, June 26, 2002.

**Herschorn S, Choo R, Do V, Danjoux C, Deboer G, Preiner J, Morton G, Chen CH, Barak I:** Lower urinary tract symptoms and urodynamic changes after external beam radiotherapy for localized prostate carcinoma. American Urological Association, Orlando, Florida, June 27, 2002.

**Herschorn S, Mitchell M, Bedding A, Emmick J:** Pharmacodynamic interactions between tadalafil and nitrates compared with sildenafil. Canadian Urological Association, St. John's, Newfoundland, June 26, 2002

**Klotz LH:** Society of Urologic Oncology Annual Meeting, Orlando, Florida, May 2002. Optimal biopsy strategy for prostate cancer diagnosis.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

A Double blind, placebo controlled, randomized study of combination Vitamin E, selenium and soy product in patients with high-grade prostatic intraepithelial neoplasia. *Fleshner, Klotz L, Redelmeier D, Szalai J: NCIC (\$430,000 2000 - 2003).*

A clinical study to evaluate the safety and efficacy of the Conticare<sup>ae</sup> female continence device in women with stress urinary incontinence. *Herschorn S: Conticare (\$10,000 2000 - 2001).*

A multi centre international open label study of the efficacy and safety of controlled release darifenacin in the treatment of subjects with overactive bladder. *Herschorn S: Pfizer (\$15,000 2000 - 2001).*

A multi-center prospective cohort study to evaluate the safety and effectiveness of the AMS Invince<sup>99</sup> male sling fixation system for the treatment of ISD incontinence secondary to TURP or radical prostatectomy. *Herschorn, S: American Medical Systems (\$35,000 2001 - 2002).*

Antioxidants and markers of oxidative stress in prostate cancer. *Fleshner N, Rao V, Kapusta L: Canadian Prostate Cancer Research Foundation (\$35,000 2000-2001).*

Controlled clinical trial to investigate the safety and efficacy of the urethral bulking agents Macroplastique for the treatment of stress incontinence after transurethral resection of the prostate or radical prostatectomy. *Herschorn S, Uroplasty Inc. (\$45,000 - 2001)*

A randomized, double-blind, placebo-controlled, multicentre, fixed-dose, parallel group, 3-month comparison study to investigate the efficacy and safety of the phosphodiesterase type V inhibitor BAY 38-9456 in males with erectile dysfunction following radical prostatectomy. *Herschorn S: Bayer (\$35,000 2001-2002)*

A prospective trial of Tension-free vaginal tape with abdominal guides for female stress urinary incontinence. *Herschorn S; Gynecare Ethicon (Somerville, NJ) (\$5000)*

Companion to PR 7. *Klotz L, Fleshner N, Pollack M, Crook J: National Cancer Institute of Canada (\$300,000 2000-2001).*

Controlled clinical trial to investigate the safety and efficacy of the urethral bulking agents Macroplastique for the treatment of stress incontinence after transurethral resection of the prostate or radical prostatectomy. *Herschorn S, Radomski S: Uroplasty Inc. (\$45,000 1999 - 2001).*

A prospective phase 3 randomized trial comparing intermittent versus continuous androgen suppression for patients with PSA progression in the clinical absence of distant metastases following radiotherapy for prostate cancer. *Klotz LH, Crook J: National Cancer Institute of Canada/Hoechst Marion Roussel (\$2,800,000 1997 - 2002).*

Differential gene expression in prostate cancer. *Squire Jeremy, Klotz L, Zielenska M, Sweet J, Jewett M, Kapuska L, Trachtenberg J: NCIC (\$377,000 2000 - 2003).*

Effect of vitamin E and selenium in cell cycle regulation in prostate cancer. *Klotz, Laurence, Fleshner, Neil: Prostate Cancer Research Foundation of Canada (\$100,000 2000 - 2001).*

Effectiveness of PSA screening in preventing metastatic prostate cancer: A population-based case-control study. *Fleshner N, Goel V Kopec J Bunting P Warde P: National Cancer Institute of Canada (\$420,595 1999 - 2002).*

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).*

Phase III study of soy, selenium and vitamin E in patients with prostatic intraepithelial neoplasia. *Fleshner N, Redelmeier D, Klotz L, Kapusta L, Rao AV, Szalai JP: National Cancer Institute of Canada (\$417,679 2000 - 2003).*  
 Prognostic factors for metastatic progression of localized prostate cancer. *Narod S, Jewett M, Trachtenberg J, Fleshner N, Klotz L: National Cancer Institute of Canada (\$135,917 2000-2001).*

Randomized trial of enriched soy supplement among men with prostatic intraepithelial neoplasia. *Fleshner N, Klotz L, Kapusta L, Rao AV, Jewett M: Protein Technologies International (\$107,500 1999 - 2001).*

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).*

The role of serum IGF-1 levels and androgen receptor phenotype in prostate cancer diagnosis. *Narod S, Fleshner N Trachtenberg J Jewett M Toi A: National Cancer Institute of Canada (\$216,903 1999 - 2001).*

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**

**Herschorn S:** Bruce Tovee Teaching Award for Undergraduate Teaching. 2002

**Klotz LH:** Visiting Professor, Memorial Sloan Kettering Cancer Centre, New York, New York, May 2002.

**DIVISION OF VASCULAR SURGERY**

**Dr. D.S. Kucey - Assistant Professor**

**Dr. R. Maggiano - Assistant Professor (Division Head)**

**RESEARCH AND INVESTIGATIONS**

*Senior Investigator's Name Appears in Italics*

Carotid Endarterectomy Health Services Research Program. *Anderson, Geoffrey, Kucey D: Heart and Stroke Foundation of Ontario, Grant #T 4495 (\$60,000 1999 - 2003).*

## Toronto East General Hospital

### ***Dr. Laura Tate – Surgeon-in-Chief***



The Toronto East General Hospital opened 11 wonderful new OR theatres in August 2002, which have been much appreciated.

Dr. Ian Harrington, Chief of Surgery, retired from active staff in July 2002 but remains active on courtesy staff.

Dr. Laura Tate, Division of Plastic Surgery, was selected as Chief of Surgery for a five-year term.

Dr. Peter Kalman, Division of Vascular Surgery, resigned from staff in September 2001.

We were all saddened by the loss of Dr. Gary Stoik, Division of General Surgery, last Spring. Gary's life was celebrated at a memorial service with his family and friends/staff of the Toronto East General Hospital, in June. His surgical expertise, dedication to family/patients and his playful character are examples for us all.

Dr. Paul Sullivan has been recruited to the Division of General Surgery, in August 2002. We are excited about Paul's MIS skills and welcome him.



#### FACULTY

**Dr. T.W. Barrington - Assistant Professor - Orthopaedic Surgery**  
**Dr. P. Bernick –Lecturer – General Surgery**  
**Dr. V. Campbell – Lecturer – Vascular Surgery**  
**Dr. M. Catre – Lecturer - Orthopaedic Surgery**  
**Dr. T. Gilas – Assistant Professor - General Surgery**  
**Dr. I.J. Harrington - Associate Professor - Orthopaedic Surgery**  
**Dr. W.J. Kraemer - Lecturer - Orthopaedic Surgery**  
**Dr. R. Mackenzie – Assistant Professor – General Surgery**  
**Dr. R. MacMillan – Assistant Professor - Urology**  
**Dr. G.L. Maistrelli - Associate Professor - Orthopaedic Surgery**  
**Dr. W. Tanner - Lecturer - Vascular Surgery**  
**Dr. P. J. Weiler - Lecturer - Orthopaedic Surgery**  
**Dr. P. Wong - Lecturer - Orthopaedic Surgery**  
**Dr. R. Zeldin – Assistant Professor – General Surgery**

#### PUBLICATIONS

**Karabatsos B, Mahomed NN, Maistrelli GL:** Functional Outcome Of Total Knee Arthroplasty After High Tibial Osteotomy. *Can J Surg*: April 2002;45(2): pp 116-9.

**Karabatsos B, Myerthall SL, Fornasier VL, Binnington A, Maistrelli GL:** Osseointegration Of Hydroxyapatite Porous-Coated Femoral Implants In A Canine Model. *Clinical Orthopaedics And Related Research*: November 2001: 392: pp 442-449.

#### INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Maistrelli GL:** Italian Hip Society Meeting, Rome, Italy, November 2001. “Biologic Response To Wear Debris”.

**Maistrelli GL:** International Forum of Orthopaedics and Traumatology, Rhodes, Greece, May 2002. “Valgus Deformities In Total Knee Arthroplasty”.

**Maistrelli GL:** 86 SIOT (Italian Orthopaedic Society Annual Meeting), Rome, Italy, November 2001. 1) State Of The Art In Cementless Hip Arthroplasty. 2) Valgus Deformities In Knee Arthroplasty.

#### HONOURS RECEIVED

**Maistrelli GL:** McLean -Muller Award For Best Paper By Resident Submitted To The Canadian Journal Of Surgery May, 2002.

## University Health Network

### **Dr. Bryce Taylor– Surgeon-in-Chief**



The University Health Network continues in its massive building project which will help revolutionize operations in the Department of Surgery, especially at the Toronto General and Toronto Western sites. The next step of the strategic planning process for the corporation, was the clinical volume target-setting process which resulted in most surgical programs growing to some extent. In particular, such surgical activities involving transplantation, surgical oncology, and neurosciences are slated to grow in the next five to 10 years. During the academic year, surgical services were compromised significantly by personnel problems at all sites, including insufficient nursing care and anaesthetic service. In the latter half of the academic year, operating time was reduced approximately 20% across University Health Network. At the end of the academic year, the Department of Surgery, and other surgical departments were looking forward to negotiating an alternate funding plan.



### **Cardiac Surgery**

Cardiac volumes declined this year, but the standard of excellence as measured by clinical outcomes and complications was maintained. Dr. Chris Feindel, in addition to taking over the position of Medical Director at the Cardiac Surgery Business Unit, won the Ross Fleming Teaching Award. Dr. Charles Peniston won the first University of Toronto Cardiac Teaching Award, and Dr. Richard Weisel was given the Tator Supervisor Award. Dr. Ren-Ke Li won the Clemson Award for Applied Research. An important development was the initiation of the Ventricular Assist Device Program under the leadership of Dr. Viv Rao; by the end of June, the team had implanted six devices with promising early results. Dr. Carin Wittnich was promoted to Full Professor.

### **General Surgery**

The strength of the General Surgery Division once again was diversity, as its members offered expertise in a variety of interest areas, including surgical oncology, the Head and Neck and Hepatobiliary Oncology Programs, advanced medicine and surgery, community and population health in the MIS Program, and transplantation, with critical contributions to the liver, pancreas, kidney and bowel programs. The Living Related Liver Transplant Program was very active with excellent results. Dr. Bernie Langer became an honorary Fellow of the Royal Australasian College, Dr. Lorne Rotstein won the Educator Award in the Skills Centre, and Dr. Richard Reznick was the James IV Travelling Fellow in the summer of 2001.

### **Neurosurgery**

The Neurosurgery Division once again had outstanding grant capture and publication record this year. Mark Bernstein finished his 10-year term as Division Head, and a new Division Head will be appointed in the coming months. Dr. Ab Guha was promoted to Full Professor and Dr. Karen Davis was promoted to Associate Professor. Dr. Michael Fehlings won the Award for Clinical Research given by the Cervical Spine Research Society, and his residents won a number of prizes. Dr. Michael Fehlings was also officially installed in the Krembil Chair in Neural Regeneration and Repair, and Dr. Charles Tator was honoured as the first occupant of the Robert Campeau Family Foundation Chair in Brain and Spinal Cord Research (this will have the name Tator-Campeau Chair in future). Dr. Ab Guha was awarded the Alan and Susan Hudson Chair in Neuro-Oncology. Dr. Andres Lozano was made an honorary member of the Neurosurgical Society of Para, Brazil, and Dr. Mark Bernstein won the 2001 Bruce Tovee Postgraduate Award. Dr. Charles Tator won the Jonas Salk Lecture Award, and Dr. Michael Tymianski was given the George Armstrong Peters Prize for 2002. Finally, Dr. Fred Gentili was the deserved winner of a 2002 Wightman-Berris Academy Teaching Excellence Award.





### **Orthopaedic Surgery**

Orthopaedic Surgery continued under the leadership of Division Head, Dr. Rod Davey and newly-appointed Director of the MHA Program, Dr. Nizar Mahomed. Dr. Mahomed won the Sanofi-Synthelabo Award, and Dr. Davey was recognized as the R.B. Salter Teacher of the Year. The Volker-Sontag Research Award was given to Dr. Raj Rampersaud, and the R.B. Salter Award of the Canadian Orthopaedic Foundation went to Dr. Herb von Schroeder. On his retirement, Dr. John Graham was applauded for his longstanding contributions to clinical surgery and education at University Health Network.

### **Plastic Surgery**

The Division of Plastic Surgery welcomed Dr. Joan Lipa whose expertise lies in the area of Microvascular Surgery, and Dr. Peter Bray who will replace Arnie Freiberg as an excellent general plastic surgeon and teacher, at the Toronto Western site. Dr. Freiberg was lauded for his long-standing contributions to the Toronto Western Hospital. The Plastic Surgery Division continued to contribute in major ways to the Head and Neck Program and to the Hand Program which was reviewed this year and characterized as “a nationally and internationally recognized centre of excellence in the treatment of hand conditions” by the reviewers, Drs. Jim Roth & Jamie Bain.

Dr. Dimitri Anastakis won a number of prizes this year, including the best clinical paper at the Canadian Society for Plastic Surgery, the best paper at the recent ASE meeting, the W.K. Lindsey Research Supervisor Award, and the Ross Fleming and Arnie Freiberg Teaching Awards at University Health Network. He is also leading the patient education initiative at University Health Network.

### **Thoracic Surgery**

Bob Ginsberg continues to offer strong leadership in the division. Dr. Gail Darling was promoted to Associate Professor, and won a Wightman-Berris Academy Teaching Prize. Dr. Shaf Keshavjee won a top 50 under 40 Award, and Dr. Tom Waddell won the Elsie Winnifred Chan Memorial Trust Award, as well as a Wightman-Berris Teaching Award. Division members maintained their strong research profile with involvement in many international clinical trials.

### **Urology**

Dr. Michael Jewett finished his ten-year term as Chair of the University Division of Urology, and a further year as the University Health Network Head of Urology. Dr. Neil Fleshner assumed that position as of July 1<sup>st</sup>, 2002. The division continued its significant contributions in the area of Surgical Oncology, and anticipates that this will progress further with the appointment of Dr. Fleshner. Dr. Sid Radomski won first prize in the northeast section of the American Urology Association essay contest, and shared the Wyeth-Ayerst Canada Award in Medical Education and Clinical Epidemiology.

### **Vascular Surgery**

The Vascular Surgery Division and Wayne Johnston's leadership were reviewed this year, and was characterized by the reviewer, Dr. Ken Harris, as “one of the top academic programs in North America”. Dr. Johnston was recognized as having an extremely prominent international profile, and was reappointed as the R. Fraser Elliott Chair in Vascular Surgery. Dr. Yaron Sternbach was recruited as a Clinical Surgeon and Endovascular specialist. Dr. Wayne Johnston was made an honorary member of the Southern Association of Vascular Surgery, and was awarded the 2002 Tovee Postgraduate Prize. He was also the first Kempczinski lecturer in 2002. Dr. Tom Lindsay won a Wightman-Berris Academy Individual Teaching Prize, and Dr. Johnston continued as the Editor-in-Chief of the Journal of Vascular Surgery. Dr. Barry Rubin was promoted to Associate Professor.

## **DIVISION OF CARDIAC SURGERY**

**Dr. S.J. Brister - Associate Professor**  
**Dr. R.J. Cusimano - Assistant Professor**  
**Dr. T.E. David - Professor (Division Head)**  
**Dr. C.M. Feindel - Associate Professor**  
**Dr. R-K. Li - Associate Professor**  
**Dr. L.L. Mickleborough - Professor**  
**Dr. C.M. Peniston - Assistant 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 - Assistant Professor**

## **PUBLICATIONS**

**Bach DS, Goldman B, Verrier E, Petracek M, Wood J, Goldman S, David T:** Eight-year hemodynamic follow-up after aortic valve replacement with the Toronto SPV stentless aortic valve. *Seminars in Thoracic and Cardiovascular Surgery*: October 2001; 13(4): pp 173-9.

**Bach DS, Goldman B, Verrier E, Petracek M, Wood J, Goldman S, David T:** Impact of small valve size on hemodynamics and left ventricular mass regression with the Toronto SPV stentless aortic bioprosthesis. *Journal of Heart Valve Disease*: March 2002; 11(2): pp 236-41.

**Borger MA, Feindel CM:** Cerebral emboli during cardiopulmonary bypass: effect of perfusionist interventions and aortic cannulas. *J Extra Corpor Technology*: March 2002; 34: pp 29-33.

**Brister SJ, Turek M:** Canadian Cardiovascular Society Consensus Conference: Women and ischemic heart disease. Introduction. *Canadian Journal of Cardiology*: November 2001; 17 Suppl D: pp 5D-69D.

**Brister SJ, Wilson-Yang K, Skala R, Yang H, Lobo F:** Pulmonary thromboendarterectomy in a patient with giant cell arteritis. *Annals of Thoracic Surgery*: June 2002; 73: pp 1977-1979.

**Buchanan MR, Brister SJ:** Sex related differences in the pathophysiology of cardiovascular disease: Is there a rationale for sex-related treatments? *Canadian Journal of Cardiology*: November 2001; 17 Suppl D: pp 7D-13D.

**Buchanan MR, Maclean GA, Brister SJ:** Selective and sustained inhibition of surface bound thrombin activity by Intimatan/Heparin Co-factor II and its relevance to assessing systemic anticoagulation in vivo, ex vivo and in vitro. *Thrombo Haemost*: September 2001; 86: pp 909-913.

**Butany J, Dias B, Iyengar P, Leask R, Brister SJ:** Acute mitral regurgitation due to a torn porcine bioprosthetic cusp. *Circulation*: March 2002; 105: pp 58e-60e.

**Cohen J, Butany J, Leask RL, Desai ND, Lenkei S, Feindel CM:** Chronic aortic dissection: 27 years after aortic valve replacement. *Canadian Journal of Cardiology*: April 2002; 18(4): pp 437-8.

**David TE:** Aortic valve sparing operations. *Annals of Thoracic Surgery*: April 2002; 73(4): pp 1029-30.

**David TE:** Aortic valve-sparing operations for aortic root aneurysm. *Seminars in Thoracic and Cardiovascular Surgery*: July 2001; 13(3): pp 291-6.

**David TE, Armstrong S, Ivanov J, Feindel CM, Omran A, Webb G:** Results of aortic valve-sparing operations. *Journal of Thoracic and Cardiovascular Surgery*: July 2001; 122(1): pp 39-46.

**David TE, Ivanov J, Eriksson MJ, Bos J, Feindel CM, Rakowski H:** Dilation of the sinotubular junction causes aortic insufficiency after aortic valve replacement with the Toronto SPV bioprosthesis. *Journal of Thoracic and Cardiovascular Surgery*: November 2001; 122(5): pp 929-34.

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**Dias B, Parker T, Ralph-Edwards A, Ross J, Velups A, Butany J:** Surgical myectomy in obstructive hypertrophic cardiomyopathy. *Canadian Journal of Cardiology*: October 2001; 17: pp 1087-89.

**Dias B, Scully H, Black R, Iwanochko RM, Graba J, Butany J:** Acute bacterial endocarditis on myxomatous mitral valve. *Canadian Journal of Cardiology*: September 2001; 17 (9): pp 983-985.

**Dias, B, Barolet A, Ralph-Edwards AC, Graba J, Mohsen B, Butany J:** Left Atrial Mass. *Canadian Journal of Cardiology*: January 2002; 18(1): pp 82-84.

**Fedak PWM, Verma S, Weisel RD, Mickle DAG, Li R-K:** Angiogenesis: protein, gene or cell therapy. *Heart Surgery Forum*: December 2001; 4: pp 301-304.

**Ibrahim MF, David TE:** Mitral stenosis following mitral valve repair for non-rheumatic mitral regurgitation. *Annals of Thoracic Surgery*: January 2002; 73(1): pp 34-6.

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**Kim E-J, Li R-K, Weisel RD, Mickle DAG, Jia Z-Q, Choi A, Tomita S, Sakai T, Yau TM:** Angiogenesis by endothelial cell transplantation. *Journal of Thoracic and Cardiovascular Surgery*: November 2001; 122: pp 963-971.

**Konstantinov I, Mickleborough LL, Graba J, Merchant N:** Intraventricular mitral annuloplasty technique for use with posterior left ventricular aneurysm repair. *Journal of Thoracic and Cardiovascular Surgery*: December 2001; 122(6): pp 1244-7.

**Li R-K:** Cell transplantation: a novel therapy for heart diseases. Working Group on Experimental Cardiology and Basic Research, Israel Heart Society: January 2002; 4: pp 1-7.

**Li R-K, Mickle DAG, Weisel RD, Rao V, Jia Z-Q:** Optimal time for cardiomyocyte transplantation to maximize myocardial function after left ventricular injury. *Annals of Thoracic Surgery*: December 2001; 72: pp 1957-1963.

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**Mickleborough LL:** Cardiac surgery for heart failure. LV reconstruction for ischemic cardiomyopathy. *Seminars in Thoracic and Cardiovascular Surgery*: April 2002; 14(2): pp 144-149.

**Mickleborough LL, Kells C:** Revascularization strategies in women with ischemic heart disease. *Canadian Journal of Cardiology*: November 2001: 17(D): pp 53-56.

**O'Blenes SB, Feindel CF:** Aortic root replacement with anomalous origin of the coronary arteries. *Annals of Thoracic Surgery*: February 2002: 73(2): pp 647-9.

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**Paparella D, Yau TM, Young E:** Cardiopulmonary bypass induced inflammation: pathophysiology and treatment. An update. *European Journal of Cardiothoracic Surgery*: February 2002: 21: pp 232-244.

**Prat A, et al:** Invited Commentary on: Ross operation for active culture-positive aortic valve endocarditis with extensive paravalvular involvement. *Annals of Thoracic Surgery*: November 2001: 72 #5: pp 1495-1496.

**Rao V, Christakis GT, Weisel RD, Ivanov J, Borger MA, Cohen G, (Peniston CM, ICT Investigators):** The Insulin Cardioplegia Trial: Myocardial protection for urgent coronary artery bypass grafting. *Journal of Thoracic and Cardiovascular Surgery*: May 2002: 123 No.5: pp 928-935.

**Rao V, Feindel CM, Cohen G, Borger MA, Boylen P, Ross HJ:** Is profound hypothermia required for storage of cardiac allografts? *Journal of Thoracic and Cardiovascular Surgery*: September 2001: 122, No.3: pp 501-507.

**Shargall Y, Goldman B, Christakis G, David T:** Analysis of explants and causes of mortality during long-term follow-up of the Toronto stentless porcine valve. *Seminars in Thoracic and Cardiovascular Surgery*: October 2001: 13(4): pp 106-12.

**Shiono N, Rao V, Weisel RD, Kawasaki M, Li R-K, Mickle DAG, Fedak PWM, Tumiati LC, Ko L, Verma S:** L- Arginine protects human heart cells from low-volume anoxia and reoxygenation. *American Journal of Physiology - Heart and Circulatory Physiology*: March 2002: 282 (3): pp H805-H815.

**Slack G, Cohen J, Lenkei-Kerwin SS, David T, Leask R, Butany J:** Images in Cardiology. Post-aortotomy false aneurysm of the ascending aorta. *Canadian Journal of Cardiology*: March 2002: 18(3): pp 312-4.

**Tomita S, Mickle DAG, Weisel RD, Jia Z-Q, Tumiati L, Allidina Y, Liu P, Li R-K:** Improved heart function with myogenesis and angiogenesis after autologous porcine bone marrow stromal cell transplantation. *Journal of Thoracic and Cardiovascular Surgery*: June 2002: 123: pp 1132-1140.

**Verma S, Badiwala MV, Li S-H, Weisel RD, Fedak PWM, Hong NL, Gemmell CH, Farcas G, Li R-K, Kain KC, Rao V, Mickle DAG:** Endothelin antagonism and interleukin-6 inhibition attenuate the proatherogenic effects of C-reactive protein. *Circulation*: April 2002: 105: pp 1890-1896.

**Verma S, Fedak PW, Weisel RD, Butany J, Rao V, Maitland A, Li RK, Dhillon B, Yau TM:** Fundamentals of reperfusion injury for the clinical cardiologist. *Circulation*: May 2002: 105: pp 2332-2336.

**Verma S, Maitland A, Weisel RD, Fedak PWM, Li S-H, Mickle DAG, Li R-K, Ko L, Rao V:** Increased endothelin-1 production in diabetic patients following cardioplegic arrest and reperfusion impairs coronary vascular reactivity: reversal by endothelin antagonism. *Journal of Thoracic and Cardiovascular Surgery*: June 2002: 123: pp 1114-1119.

**Verma S, Maitland A, Weisel RD, Fedak PWM, Pomroy NC, Li S-H, Mickle DAG, Li R-K, Rao V:** Novel cardioprotective effects of tetrahydrobiopterin after anoxia and reoxygenation: identifying cellular targets for pharmacological manipulation. *Journal of Thoracic and Cardiovascular Surgery*: June 2002: 123: pp 1074-1083.

**Verma S, Maitland A, Weisel RD, Li S-H, Fedak PWM, Pomroy NC, Mickle DAG, Li R-K, Ko L, Rao V:** Hyperglycemia exaggerates ischemia and reperfusion induced cardiomyocyte injury: reversal by endothelin antagonism. *Journal of Thoracic and Cardiovascular Surgery*: June 2002: 123: pp 1120-1124.

**Williams WG, Wigle ED, Rakowski H, Ralph-Edwards AC:** Surgical Management of Hypertrophic Cardiomyopathy. In: *The Surgical Management of Congestive Heart Failure* (Christopher Cannon, ed). Toronto: 2001:

**Yau TM, Fung K, Fujii T, Weisel RD, Mickle DAG, Li R-K:** Enhanced myocardial angiogenesis by gene transfer using transplanted cells. *Circulation*: September 2001; 104: pp I218-I222.

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

**Brister SJ:** Canadian Cardiovascular Society, Acapulco, Mexico, February 2002. Challenges in Clinical Cardiology: Targeting the GAPS (Guidelines Applied in Practice).

**Brister SJ:** CVICU-Toronto General Hospital, Toronto, Ontario, January 2002. Superior Vena Cava Syndrome.

**Brister SJ:** Cardiology Lecture Series, Southlake Regional Health Centre, Newmarket, Ontario, June 2002. The principles of management of antiplatelet agents in the setting of cardiac surgery.

**Brister SJ:** International Congress on Atherothrombosis and Hemostasis 13th Symposium of the Danubian League against Thrombosis and Hemorrhagic Disorders, Assisi, Italy, April 2002. The risks and benefits of hormone replacement therapy in women with cardiovascular disease: A North American Perspective.

**David TE:** Postgraduate Course for Surgical Residents. Sponsored by St. Jude Medical, Minneapolis, Minnesota, March 2002. (1) Functional anatomy of the aortic root and its applications in cardiac surgery.

**David TE:** Cardiac Surgery Residents' Program, Sponsored by Medtronic, Minneapolis, Minnesota, May 2002. (1) Functional anatomy of the aortic valve; (2) Functional anatomy of the mitral valve.

**David TE:** 31st Annual Meeting of the German Society of Thoracic and Cardiovascular Surgery, Leipzig, Germany, February 2002. (1) Infarct VSD: indications and surgical strategies; (2) Late results of aortic valve replacement with Toronto SPV.

**David TE:** Rocky Mountain Valve Symposium, Missoula, Montana, August 2001. (1) Long term results of rheumatic mitral valve repair. (2) Valve sparing root replacement.

**David TE:** The 4th Annual Canadian Echo Weekend. Educational Symposium of the Canadian Society of Echocardiography, Alliston, Ontario, April 2002. (1) Mitral valve echo in OR: what the surgeon needs to know; (2) Surgical approach to endocarditis.

**David TE:** 7th Annual Update on Cardiopulmonary Bypass. Co-sponsored by American Association for Thoracic Surgery, American Society of Critical Care Anesthesiologists, Canadian Society of Clinical Perfusionists, Snowmass, Colorado, March 2002. (1) Mitral valve surgery: repair, replacement and special circumstances; (2) Pathophysiology of mitral valve disease.

**David TE:** Aortic Symposium VIII. Sponsored by Mount Sinai School of Medicine, New York, New York, May 2002. Aortic valve sparing operations.

**David TE:** XVI Congreso de la Sociedad Espanola de Cirurgia Cardiovascular, Asturias, Spain, June 2002. Guest lecturer: Stentless porcine aortic valves.

**David TE:** Herz-Und Gefass-Klinik, Bad Neustadt, Germany, October 2001. Surgery of the aortic valve and thoracic aorta. Live teleconference: (1) Aortic valve sparing operation; (2) Transverse arch replacement; (3) Aortic valve repair.

**David TE:** University of Pavia, Pavia, Italy, February 2002. Surgical demonstration and lecture: Aortic valve replacement with stentless valves.

**David TE:** University of Parma, Parma, Italy, February 2002. Surgical demonstration and lecture: Aortic valve sparing operations.

**David TE:** Wake Forest University, The 12th Annual Frank Randolph Johnston Lecture, Winston-Salem, North Carolina, May 2002. Surgical Innovation.

**David TE:** Montefiore Medical Center, Bronx, New York, December 2001. The 2nd Lari Attai Lecture in Thoracic and Cardiovascular Surgery. Mitral valve surgery: past, present and future.

**David TE:** Deutsches Herzzentrum, Professor Rudiger Lange, University of Munich, Munich, Germany, June 2002. Visiting Professor.

**David TE:** University of Manz, Germany, Manz, Germany, October 2001. Visiting Professor. Aortic valve sparing operations.

**David TE:** InterAmerican Society of Cardiology, Panama, Panama, August 2001. What's new in heart valve surgery.

**Feindel CM:** Canadian Cardiovascular Society, 54th Annual Scientific Meeting, Halifax, Nova Scotia, October 2001. "How To" Session. Cardiac surgery and neurocognitive dysfunction: Etiology, prevention and treatment.

**Feindel CM:** Tongariro Cardiac Surgery Meeting 2002, Taupo, New Zealand, March 2002. Aortic valve sparing operations.

**Feindel CM:** McGill University - Medical Seminar, Montreal, Quebec, October 2001. Back to school again - Can you do it? Should you do it?

**Feindel CM:** The Western Thoracic Surgical Association - 28th Annual Meeting, Big Sky, Montana, June 2002. Mitral valve surgery in patients with extensive calcification of the mitral annulus.

**Feindel CM:** Peak Performance XV - Medtronics, Lake Louise, Alberta, February 2002. On pump vs off pump case study.

**Feindel CM:** Canadian Society of Cardiac Surgeons - (Canadian Cardiovascular Society), Halifax, Nova Scotia, October 2001. Postgraduate Course - Aortic Valve-sparing procedures.

**Feindel CM:** Tongariro Cardiac Surgery Meeting 2002, Taupo, New Zealand, March 2002. Protecting the brain during heart surgery.

**Feindel CM:** Tongariro Cardiac Surgery Meeting 2002, Taupo, New Zealand, March 2002. Returning to school, can you do it? Should you do it?

**Feindel CM:** Peak Performance XV - Medtronics, Lake Louise, Alberta, February 2002. Session Chairman.

**Feindel CM:** Canadian Anaesthesiologists' Society 59th Annual Meeting, Victoria, British Columbia, June 2002. Session: Surgical decision in aortic valve and aortic surgery. "How do I decide on the type of aortic valve for my patient?"

**Feindel CM:** Canadian Anaesthesiologists' Society 59th Annual Meeting, Victoria, British Columbia, June 2002. Session: Surgical decision in aortic valve and aortic surgery. "Valve-preserving aortic root surgery".

**Li R-K:** Stem Cell Network of Canada, Plasticity Workshop, Vancouver, British Columbia, January 2002. Bone marrow cell transplantation to improve heart function.

**Li R-K:** American Heart Association, New Advances in Cardiology and Vascular Therapies, Anaheim, California, November 2001. Cell and gene therapy for heart disease.

**Li R-K:** Division of Cardiology, University of Toronto, University Rounds, Toronto, Ontario, February 2002. Cell therapy for heart failure and regeneration.

**Li R-K:** Chinese Academy of Sciences Technology Conference of Young Scientists, Beijing, China, October 2001. Cell transplantation and tissue engineering: new therapies for cardiovascular disease.

**Li R-K:** Annual Day in Transplantation & Immunology, University of Toronto, Toronto, Ontario, November 2001. Cell transplantation for cardiovascular disease.

**Li R-K:** International Society for Heart Research, XVII World Congress, Winnipeg, Manitoba, July 2001. Cell transplantation to induce angiogenesis: a new strategy for ischemic cardiomyopathy.

**Li R-K:** 13th World Congress of the International Society for Artificial Organs, Osaka, Japan, November 2001. Creation of a viable graft material through cell engineering for congenital heart surgery.

**Li R-K:** 13th World Congress of the International Society for Artificial Organs, Osaka, Japan, November 2001. Optimal conditions to create cardiac defect.

**Mickleborough LL:** The 2nd Hayama Heart Seminar, Hayama, Kanagawa, Japan, March 2002. (1) LV aneurysm: Surgical remodelling (2) Surgery for ischemic cardiomyopathy.

**Mickleborough LL:** Heart & Stroke Health Show, Global Television, Toronto, Ontario, March 2002. Fixing a broken heart.

**Mickleborough LL:** Society of Thoracic Surgeons, Fort Lauderdale, Florida, January 2002. LV reconstruction.

**Peniston CM:** Samsung Medical Center, Seoul, Korea, August 2001. The Toronto Stentless Valve Experience - Lecture.

**Peniston CM:** Asan Medical Centre, Seoul, Korea, August 2001. The Toronto Stentless Valve Experience-St. Jude.

**Peniston CM:** Yonsei University, Severance Hospital, Seoul, Korea, August 2001. The Toronto Stentless Valve Experience-St. Jude, Lecture and Wet Lab.

**Peniston CM:** Catholic University Hospital, Daegu, Korea, August 2001. Toronto, Ontario, Stentless Valve - OR - 2 cases.

**Peniston CM:** Dong-A University Hospital, Busan, Korea, August 2001. Toronto, Ontario, Stentless Valve - OR - 2 cases.

**Peniston CM:** Catholic University Hospital, Daegu, Korea, August 2001. Toronto, Ontario Stentless Valve - St. Jude - Lecture and Workshop.

**Rao V:** 53rd Annual Meeting of the Canadian Cardiovascular Society, October 2001. Changing trends in mechanical circulatory support: The Columbia-Presbyterian Experience.

**Rao V:** 5th Annual retreat of the Greater Toronto Area Community Cardiovascular Specialists, Huntsville, Ontario, June 2002. Current indications for mechanical circulatory support.

**Rao V:** Cardiology Grand Rounds, Oshawa, Ontario, June 2002. Current indications for mechanical circulatory support.

**Rao V:** Cardiology Grand Rounds, William Osler Medical Centre, Brampton, Ontario, March 2002. Current Indications for Mechanical Circulatory Support.

**Rao V:** Peak Performance VII, Lake Louise, Alberta, March 2002. Issues in Predicting Postoperative Performance after Aortic Valve Replacement.

**Rao V:** Nursing Professional Development Day, Toronto General Hospital, Toronto, Ontario, September 2001. Left ventricular assist devices.

**Rao V:** Toronto General Hospital, Toronto, Ontario, August 2001. Left ventricular assist devices: Perspectives for physiotherapy.

**Rao V:** Cardiology Rounds, Toronto General Hospital, Toronto, Ontario, October 2001. Mechanical Circulatory Support: Indications and Outcomes.

**Rao V:** Southlake Regional Health Centre, Newmarket, Ontario, December 2001. Mechanical Circulatory Support: Indications and Outcomes.

**Rao V:** Trillium Health Centre, Mississauga, Ontario, December 2001. Mechanical Circulatory Support: Should Trillium be a player?

**Rao V:** 5th Annual Toronto Heart Failure Summit, Toronto, Ontario, June 2002. Mechanical Circulatory Support: When NOT to insert a VAD.

**Rao V:** 44th Annual Meeting of the American Society of ExtraCorporeal Technology, New Orleans, Louisiana, March 2002. Protection of Myocardial Metabolism During Cardiac Surgery.

**Rao V:** 3rd International Symposium on Myocardial Protection from Surgical Ischemic-Reperfusion Injury, Asheville, North Carolina, June 2002. Stem cell transplantation and transformation.

**Scully HE:** Canadian Medical Association, Quebec City, Quebec, August 2001. 134th Annual General Meeting.

**Scully HE:** Canadian Medical Association, Annual General Meeting - Committee of Affiliates, Quebec City, Quebec, August 2001. A human resource strategy for physicians.

**Scully HE:** Canadian Medical Association - Canadian Medical Forum, Ottawa, Ontario, December 2001. State of Affairs of the Physician Workforce.

**Scully HE:** Canadian Medical Association - Divisions Presidents Forum, Ottawa, Ontario, November 2001. State of Affairs of the Physician Workforce.

**Scully HE:** Canadian Medical Association - CMA Board, Ottawa, Ontario, December 2001. State of Affairs of the Physician Workforce.

**Scully HE:** Canadian Medical Association - Negotiations Conference, Ottawa, Ontario, October 2001. State of Affairs of the Physiican Workforce.

**Scully HE:** Royal College of Physicians and Surgeons of Canada, Ottawa, Ontario, September 2001. Task Force Two: A Human Resource Strategy for Physicians.

**Scully HE:** Canadian Surgery Forum, Quebec City, Quebec, September 2001. The Numbers Game.

**Scully HE:** International Society for Heart Research, Symposia Chair, Winnipeg, Manitoba, July 2001. XV11 World Congress.

**Weisel RD:** Edwards Lifesciences Symposium, Angina Unresponsive to Conventional Therapy: Current and Future Management of the "Limited Option" Patient, Atlanta, Georgia, March 2002. Angiogenesis in the future: protein, gene and cell therapies.

**Weisel RD:** American Heart Association, Anaheim, California, November 2001. Bringing surgical innovations to the market.

**Weisel RD:** Emory Health Clinic, Atlanta, Georgia, November 2001. Cardioplegia 2001.

**Weisel RD:** AATS Tech-Con 2002 - Potpourri of New Technology, Fort Lauderdale, Florida, January 2002. Cell transplantation.

**Weisel RD:** Asheville Cardiac Surgery Symposium, Asheville, North Carolina, June 2002. Cell transplantation.

**Weisel RD:** Heart and Stroke Foundation of Ontario, Toronto, Ontario, October 2001. Cell transplantation and protecting the heart.



**Weisel RD:** American College of Cardiology Heart Failure Summit, Toronto, Ontario, June 2002. Cell transplantation to prevent heart failure.

**Weisel RD:** Asian Society for Cardiovascular Surgery, Cheju Island, Korea, April 2002. Cell transplantation: remaking the heart.

**Weisel RD:** Bio/ChaRM 2002 Conference, Toronto, Ontario, June 2002. Creation of a viable graft material through cell engineering for congenital heart surgery.

**Weisel RD:** Maine Medical Center, Portland, Maine, May 2002. Intraoperative myocardial protection.

**Weisel RD:** Update on Cardiopulmonary Bypass Conference, Snowmass, Colorado, March 2002. Moderator - Cardiac assist devices: OR and ICU management.

**Weisel RD:** International Society for Heart and Lung Transplantation, Washington, District of Columbia, April 2002. Moderator - Symposium - Cellular replacement strategies for the failing heart.

**Weisel RD:** Asian Society for Cardiovascular Surgery, Cheju Island, Korea, April 2002. Myocardial protection.

**Weisel RD:** Update on Cardiopulmonary Bypass Conference, Snowmass, Colorado, March 2002. Myocardial protection on and off the pump.

**Weisel RD:** Edwards Lifesciences 2001 Cardiac Residents Course, Costa Mesa, California, October 2001. Myocardial restoration, stem cells and angiogenesis.

**Weisel RD:** Asheville Cardiac Surgery Symposium, Asheville, North Carolina, June 2002. The future of myocardial protection.

**Weisel RD:** Genzyme Biosurgery and CTT, Miami, Florida, January 2002. Tissue engineering.

## 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 - 2002).

Angiogenesis by uterine cell transplantation. *Ren-Ke Li: The Heart and Stroke Foundation of Ontario* (\$155,478 2001 - 2003).

Autologous tissue-engineered grafts for congenital heart surgery. *Ren-Ke Li: The Heart and Stroke Foundation of Ontario* (\$121,372 2001 - 2003).

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 - 2002).

Cell transplantation for cardiovascular disease. *Ren-Ke Li: Heart and Stroke Foundation of Ontario (Personnel Support)* (\$381,250 2001 - 2006).

Cell transplantation to improve heart function. *Ren-Ke Li: Ontario Ministry of Energy, Science and Technology* (\$150,000 2001 - 2006).

Effect of vacuum assist on cerebral microemboli during CPB. *Feindel CM, Borger M: The Physicians' Services Incorporated Foundation* (\$20,000 2000 - 2001).

Endothelial preservation for cardiac transplantation. *Rao V: Dean's Fund, University of Toronto* (\$10,000 2002 - 2003).

Endothelial preservation for cardiac transplantation. *Rao V: Connaught Foundation* (\$30,000 2002 - 2004).

Endothelin antagonism and cardiac surgery in diabetes. *Subodh Verma, Richard D. Weisel: Physicians Services Incorporated Foundation* (\$20,000 2001).

Endothelin, perioperative ischemia and diabetes. *Richard D. Weisel, Subodh Verma: Canadian Diabetic Association* (\$69,268 2001 - 2002).

Endothelin, perioperative ischemia and diabetes. *V. Rao, R. D. Weisel: Canadian Diabetic Association* (\$69,268 2001 - 2002).

Endothelin, perioperative ischemia and diabetes. *Weisel RD, Rao V: Canadian Diabetes Association* (\$138,536 2001 - 2003).

EXPEDITION Trial (Na<sup>+</sup>/H<sup>+</sup> exchange inhibitor to prevent coronary events in acute cardiac conditions. *Yau TM, Weisel RD: Aventis Pharma* (\$130,200 2001 - 2003).

IMAGINE Trial - Ischemia management with accupril post bypass graft via inhibition of converting enzyme. *O'Kelly B, Rouleau J, Iwanochko RM, Lenkei S, Peniston CM, Husain M, Yu E: Pfizer Pharmaceutical Research* (\$700,000 2000 - 2002).

Insulin cardioplegia for poor left ventricular function. *Yau TM, Weisel RD: Heart and Stroke Foundation of Ontario* (\$114,351 2001 - 2003).

Insulin cardioplegia for poor left ventricular function. *Yau TM, Weisel RD: Canadian Institutes of Health Research* (\$70,192 2001 - 2003).

Insulin cardioplegia for poor left ventricular function. *Yau TM, Weisel RD: Heart and Stroke Foundation* (\$69,600 1999 - 2001).

Magnetic resonance imaging for ischemic heart disease. *Merchant N, Mickleborough LL: Medical Research Council of Canada* (\$75,225 2001 - 2002).

Mosaic heart valve study. *Peniston CM, David TE: Medtronic Incorporated* (\$30,000 2000 - 2001).

Multi-centre radial artery patency study. *Fremes, SE, Yau, TM: Medical Research Council of Canada* (\$270,000 2000 - 2001).

Myocardial transgene expression in transplanted cells. *Yau TM: Connaught Foundation* (\$30,000 2000 - 2002).

Perfusion of cardiac allografts with shed donor blood. *Feindel CM, Rao V: Heart and Stroke Foundation of Ontario* (\$135,264 1999 - 2001).

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).

Prolonged storage of cardiac allografts with shed donor blood. *Feindel, CM: Heart & Stroke Foundation of Ontario* (\$134,724 1999 - 2001).

Protection from perioperative ischemia. *Weisel RD: Heart and Stroke Foundation of Ontario* (\$200,510 2001 - 2004).

Quest Trial. *Weisel RD, Rao V, Yau TM: Quest Medical, Inc.* (\$50,000 2001 - 2003).

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).

Task force for the development of a research agenda for cardiovascular disease in women. *Brister SJ, Turek M, Buchanan MR, Jolly E, McPherson R, Slaughter P, Daniel L, Arthur H, Richards JA: New Frontiers Program* (\$30,000 2001 - 2002).

The efficacy of two modalities - intravenous iron and recombinant erythropoietin for treatment of profound postoperative anemia". *Karkouki, K, Yau TM: Physician's Services Incorporated Foundation* (\$99,500 2001 - 2003).

## **HONOURS RECEIVED**

**Li R-K:** Career Investigator Award, Heart and Stroke Foundation of Ontario. July 2001.

**Li R-K:** Premier's Research Excellence Award, Ontario Ministry of Energy, Science and Technology, October 2001.

**Peniston CM:** 1st Annual University of Toronto Cardiac Surgery Teaching Award, December 2001.

**Rao V:** Fellow American Heart Association, June 2002.

**Weisel RD:** Charles Tator Surgeon-Scientist Mentoring Award, May 2002.

**DIVISION OF GENERAL SURGERY**

**Dr. M.S. Cattral - Associate Professor**  
**Dr. A.P.B. Dackiw - Assistant Professor**  
**Dr. R.M. Gorczynski - Professor**  
**Dr. D. Grant - Professor**  
**Dr. P.D. Greig - Professor**  
**Dr. P.I. Haigh - Assistant Professor**  
**Dr. H.S. Himal - Associate Professor**  
**Dr. A. Kapus - Assistant Professor**  
**Dr. B. Langer - Professor**  
**Dr. J.C. Marshall - Professor**  
**Dr. R.E. Mathews - Assistant Professor**  
**Dr. D.R. McCready - Associate Professor**  
**Dr. R.K. Reznick - Professor**  
**Dr. L.E. Rotstein - Associate Professor**  
**Dr. O.D. Rotstein - Professor (Division Head)**  
**Dr. B.R. Taylor - Professor**  
**Dr. D.R. Urbach - Assistant Professor**  
**Dr. H.A.E. Weizel - Associate Professor**

**PUBLICATIONS**

**Aharonovitz O, Kapus A, Szaszi K, Coady-Osberg N, Jancelewicz T, Orlowski J, Grinstein S:** Modulation of Na<sup>+</sup>/H<sup>+</sup> exchange activity by chloride. *American Journal of Physiology*: July 2001: 288: pp 133-41.

**Alan PB Dackiw and Orlo H Clark:** Bilateral Thyroidectomy; Indications and Technique. In: *Surgery of the Thyroid and Parathyroid Glands* (Gregory I Randolph, ed). Harcourt Health Sciences,; 2002:

**Ault G, Reznick RK, MacRae H, Leadbetter W, DaRosa, Regehr G:** Exporting a technical skills evaluation technology to other sites: Feasibility and implementation issues. *American Journal of Surgery*: September 2001: 182 (3): pp 254-256.

**Bloomberg RD, Urbach DR:** Laparoscopic Roux-en-Y gastric bypass for severe gastroesophageal reflux following vertical banded gastroplasty. *Obesity Surgery*: June 2002: 12: 408-411.

**Boushey RA, Dackiw APB:** Adrenal Cortical Cancer. *Current Treatment Options In Oncology*: August 2001: 2 (4): pp 355-64.

**Brenner RJ, Haigh PI:** Stereotactic core needle breast biopsy. *Operative Techniques in General Surgery* (Van Heerden and Farley, ed). WB Saunders, Philadelphia: 2001: pp 104-109.

**Chang DW, Kroll SS, Dackiw APB, Singletary SE, Robb GL:** Reconstructive management of contralateral breast cancer in patients who previously underwent unilateral breast reconstruction. *Plastic and Reconstructive Surgery*: August 2001: 108(2): pp 352-8.

**Cook D, Guyatt G, Rocker G, Sjokvist P, Weaver B, Dodek P, Marshall J, Leasa D, Levy M, Varon J, Fisher M, Cook R, for the Canadian Critical Care Trials Group:** Cardiopulmonary resuscitation directives on admission to the intensive care unit: an international observational study. *Lancet*: December 2001: 358: pp 1941-1945.

**Cook RJ, Cook DJ, Tilley J, Lee KA, Marshall JC:** Multiple organ dysfunction: Baseline and serial component scores. *Critical Care Medicine*: August 2001: 29: pp 2046-2050.

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**Urbach DR, Swanstrom LL, Hansen PD:** Risk of subsequent surgery after a palliative bypass operation for pancreatic cancer. *Surgical Forum*: October 2001: LII: pp 460-2.

**Urbach DR, Swanstrom LL, Hansen PD:** The effect of laparoscopy on survival in pancreatic cancer. *Archives of Surgery*: February 2002: 137: pp 191-199.

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

**Cattral MS:** Ontario Donor Coordinators Association, London, Ontario, October 2001. Isolated Pancreas Transplantation.

**Cattral MS:** Transplant Atlantic Meeting, Halifax, Nova Scotia, October 2001. Kidney Pancreas Transplantation.

**Cattral MS:** American Transplant Congress 2002, Washington, District of Columbia, April 2002. Pancreas Immunosuppression - Chair for Scientific Session of ASTS.

**Dackiw APB:** Clinical Endocrinology Rounds, Toronto, Ontario, April 2002. Laparoscopic Adrenalectomy and the Surgical Management of Endocrine Hypertension.

**Dackiw APB:** Royal College of Physicians and Surgeons of Canada, Quebec City, Quebec, September 2001. Panelist, Surgery Session.

**Greig PD:** Canadian Association of Gastroenterology, Montreal, Quebec, February 2002. Advances in Liver Transplantation.

**Greig PD:** The PBC Patient Support Network, Toronto, Ontario, October 2001. Cadaveric and Split Liver Transplantation.

**Greig PD:** 2nd International Congress on Immunosuppression, San Diego, California, December 2001. Improved Cardiovascular Profile with Tacrolimus.

**Greig PD:** ILTS Fujisawa Satellite Symposium, Berlin, Germany, July 2001. The Role of Steroids in Liver Transplantation.

**Langer B:** Dalhousie University Faculty of Medicine, Halifax, NS, April 2002. "Distinguished Leaders in Medicine" academic visitor. Lecture - Surviving in Academic Medicine in the 21st Century.

**Langer B:** Canadian Association of General Surgeons, Quebec City, Quebec, September 2001. Symposium on Maintenance of Certification - Moderator and speaker.

**Marshall JC:** 8th International Congress of Intensive Care Medicine, New Delhi, India, February 2002. 1. Gut ischemia in critical illness: Management and consequences. 2. Severe acute pancreatitis: Management guidelines. 3. Principles of surgical source control. 4. Iatrogenesis in the ICU. 5. Intra-abdominal infection in the critically ill patient.

**Marshall JC:** Society of Critical Care Medicine/European Society of Intensive Care Medicine Summer Conference on Sepsis, Boston, Massachusetts, June 2002. 1. Clinical trials in sepsis: Recent results. 2. Multiple organ dysfunction syndrome: Can we make a difference?

**Marshall JC:** American College of Surgeons 87th Clinical Congress, New Orleans, Louisiana, October 2001. 1. Endpoints for resuscitation. 2. Modulation of the inflammatory response.

**Marshall JC:** 8th World Congress of Intensive and Critical Care Medicine, Sydney, Australia, October 2001. 1. Finding and controlling the source of sepsis. 2. Overview of inflammatory mechanisms in sepsis.

**Marshall JC:** Defense Civil Institute for Environmental Medicine (DCIEM), Toronto, Ontario, October 2001. 1. Fluid resuscitation in combat. 2. Endpoints in resuscitation.

**Marshall JC:** 22nd International Symposium of Intensive Care and Emergency Medicine, Brussels, Belgium, March 2002. 1. How leukocytes live longer. 2. Endotoxemia in critical illness: Insights from the MEDIC Trial. 3. Infection in critical illness: Minimizing antibiotic use. 4. Iatrogenesis in the ICU.

**Marshall JC:** 16th International Symposium on Critical Care Medicine, APICE, Trieste, Italy, November 2001. 1. Microbial translocation: From myth to mechanism. 2. Scoring systems in sepsis and MODS. 3. Novel therapies in sepsis: Does a cost-effectiveness target exist? 4. SDD reduces pneumonia and mortality.

**Marshall JC:** National Congress of Critical Care Medicine, Quito, Ecuador, February 2002. 1. Principles of source control. 2. Management of acute necrotizing pancreatitis. 3. Mediator-directed therapy in sepsis: Current status. 4. Measuring organ dysfunction as an outcome in critical illness. 5. Strategies to minimize antimicrobial use in nosocomial ICU-acquired infections.

**Marshall JC:** 31st Critical Care Congress, Society of Critical Care Medicine, San Diego, California, January 2002. 1. Principles of Source Control. 2. How will we treat sepsis in 2051? 3. Neutrophil apoptosis. 4. The PIRO model. 5. Meet the Professor: Intra-abdominal sepsis.

**Marshall JC:** Visiting Professor, St. Louis University School of Medicine, St. Louis, Missouri, May 2002. 1. Sepsis: Evolving terminology, evolving concepts. 2. Principles of source control in the management of surgical infection.

**Marshall JC:** 14th Brazilian Congress on Surgery, San Paulo, Brazil, July 2001. 1. Source control in surgical infection. 2. Mediator-directed therapy in sepsis: Current status. 3. The surgeon in the ICU.

**Marshall JC:** 12th Argentinian Congress of Intensive Care, Rosario, Argentina, September 2001. 1. The immune response in critical illness. 2. Infection prophylaxis in severe acute pancreatitis. 3. The pathophysiology of sepsis and septic shock. 4. Difficult infections in the ICU.

**Marshall JC:** Canadian Infectious Disease Society 2002, Banff, Alberta, March 2002. Are we on the horizon of new therapies in sepsis?

**Marshall JC:** Sepsis Advisory Board Meeting, Monte Carlo, Monaco, January 2002. Evolving concepts in the design of clinical trials in sepsis.

**Marshall JC:** First Conjoint Meeting, Surgical Infection Society North America/Surgical Infection Society Europe, Madrid, Spain, May 2002. Inflammation or Infection: Serum mediators as biologic markers.

**Marshall JC:** Hong Kong Society of Critical Care Medicine, Hong Kong, November 2001. Mediator-directed therapy in sepsis: Current status.

**Marshall JC:** Visiting Professor, Harborview Medical Center, Seattle, Washington, February 2002. Mediator-targeted therapy in sepsis: Current status and future prospects.

**Marshall JC:** DRDC Workshop on Clinical Research Methodology, Toronto, Ontario, May 2002. Outcome measures: Dependent and confounding variables.

**Marshall JC:** FRSQ Critical Care Conference, Mont Tremblant, Quebec, April 2002. Scoring systems for sepsis.

**Marshall JC:** International Sepsis Forum, Lausanne, Switzerland, September 2001. Statistical issues in sepsis research.

**Marshall JC:** 6th Toronto Critical Care Medicine Symposium, Toronto, Ontario, October 2001. The interface between sepsis and oncology.

**Marshall JC:** SCCM/ESICM International Sepsis Definitions Conference, Washington, District of Columbia, December 2001. The IRO System: Towards a staging system for clinical sepsis.

**McCready DR:** Dalhousie University, Halifax, Nova Scotia, November 2001. Current management of invasive ductal carcinoma including sentinel node biopsy.

**McCready DR:** Canadian Society of Surgical Oncology/Canadian Association of General Surgeons, Montreal, Quebec, September 2001. Metastatic adenocarcinoma to the axilla in a 53 year old female.

**McCready DR:** 2nd World Congress World Federation of Surgical Oncology Societies - WFSOS, Napoli, Italy, September 2001. Sentinel lymph node biopsies (SLNB) can be accurately performed after wide local excision (WLE) of cutaneous melanoma.

**McCready DR:** National Cancer Institute of Canada - Emerging Therapies in Oncology, Montreal, Quebec, April 2002. Shifting paradigms in breast cancer surgery.



**McCready DR:** The 26th Annual Meeting of The American Society of Breast Disease, San Francisco, California, April 2002. Some patients can be spared radiation after lumpectomy.

**Reznick RK:** Association for Surgical Education Annual Meeting, Baltimore, Maryland, April 2002. ASE Workshop - Developing a Sustainable Educational Research Effort.

**Reznick RK:** Association of American Medical Colleges, Washington, District of Columbia, November 2001. Conference Review.

**Reznick RK:** Imperial College Lecture at the Society of Academic and Research Surgery, London, England, January 2002. Excellence in technical training is our mission: Old methods won't suffice.

**Reznick RK:** Association of Professors of Gynaecology and Obstetrics and the Counsel of Resident Education of Obstetrics and Gynaecology, Dallas, Texas, March 2002. Keynote Speaker, Teaching Technical Skills.

**Reznick RK:** Association of Professors of Gynaecology and Obstetrics and the Counsel of Resident Education of Obstetrics and Gynaecology, Dallas, Texas, March 2002. Panelist - The Master Surgical Teachers Panel.

**Reznick RK:** American College of Surgeons Clinical Congress, New Orleans, Louisiana, October 2001. Predictive Validity of Laparoscopic Skill Simulation.

**Reznick RK:** Charles Tator Lecture, Canadian Association of University Surgeons, Quebec City, Quebec, September 2001. Research into the Training and Evaluation of our Surgery Residents.

**Rotstein LE:** 87th Annual Clinical Congress. American College of Surgeons., New Orleans, Louisiana, U.S.A., October 2001. Hashimoto's Thyroiditis. Benign Thyroid Disease: Medical and Surgical Management.

**Rotstein LE:** 87th Annual Clinical Congress of the American College of Surgeons, New Orleans, Louisiana, October 2001. Lymphocytic thyroiditis - surgical implications.

**Rotstein LE:** Canadian Association of General Surgeons, Quebec City, Quebec, September 2001. Management of the unknown primary.

**Rotstein OD:** 87th Annual American College of Surgeons Clinical Congress, New Orleans, Louisiana, October 2001. Frontiers in resuscitation (Moderator).

**Rotstein OD:** EPIC General Surgery Consultant Advisory Board Meeting, SCS Healthcare Marketing Inc., Pinehurst Resort, Pinehurst, North Carolina, July 2001. Intra-abdominal infection and extended spectrum B-lactamases and resistance in gram-negative and non-fermenters.

**Rotstein OD:** EPIC™ 2002 General Surgery Regional Advisory Board Program, SCS Healthcare Marketing Inc., Naples, Florida, January 2002. Prophylactic antibiotics.

**Rotstein OD:** EPIC General Surgery Consultant Advisory Board Meeting, SCS Healthcare Marketing Inc., Pinehurst Resort, Pinehurst, North Carolina, July 2001. Surgical prophylaxis and Clostridium difficile-associated disease.

**Taylor BR:** Canadian Association of General Surgeons Meeting, Quebec City, Quebec, September 2001. Medicolegal considerations. Postgraduate Course. Current concepts in minimally invasive surgery

**Taylor BR:** Canadian Association of General Surgeons Meeting, Quebec City, Quebec, September 2001. Risk avoidance/injury prevention. Postgraduate Course. Current concepts in minimally invasive surgery.

**Taylor BR:** Ontario Medical Education Rounds, University Health Network, Toronto, Ontario November 2001. Symposium on restructuring and education. The effects of restructuring on education – the hospital's perspective.

**Taylor BR:** General Surgery Update, University of Toronto, Toronto, Ontario, April 2002. Session on difficult cases in general surgery – Session chair.

**Taylor BR:** Gallie Day, University of Toronto, Toronto, Ontario, May 2002. Symposium in new technologies – Symposium organizer and chair.

**Urbach DR:** Center for Minimal Access Surgery, Hamilton, Ontario, July 2001. Complications of laparoscopic bariatric surgery and management.

**Urbach DR:** Surgical Biology Club, Quebec, Quebec, September 2001. Laparoscopic surgery and cancer survival.

**Urbach DR:** West Toronto Gut Club, Stratford, Ontario, September 2001. Laparoscopic surgery for gastroesophageal reflux disease.

**Urbach DR:** CAGS/CATS Postgraduate Course: Current Concepts in Minimal Access Surgery, Canadian Surgical Forum, Quebec, Quebec, September 2001. Minimal Access Esophagectomy.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

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 phase III study of recombinant platelet-activating factor acetylhydrolase in severe sepsis and septic shock. *Marshall JC: Icos Ltd. (\$120,000 2002).*

A phase III study of recombinant tissue factor pathway inhibitor in sepsis. *Marshall JC: Chiron Ltd. (\$105,174 2001).*

A randomized trial of regional radiation therapy in early breast cancer. *Whelan, TJ, Olivotto I, Kirkbride P, Craighead P, Benk V, Pritchard K, Levine M, McCready DR, Shepherd L, Tu D, Coyle D, Lewis MJ: Canadian Breast Cancer Research Initiative (\$916,313 2000 - 2003).*

A randomized, double-blind, multi-center, comparative Phase III study of intravenous BMS-284756 followed by oral BMS-284756 versus intravenous piperacillin/tazobactam followed by oral amoxicillin/cavulanate in the treatment of complicated intraabdominal infections. *Rotstein, Ori D: Bristol-Myers Squibb Canada Inc. (\$3,210 2001 - 2002).*

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).*

Cellular mechanisms of lipopolysaccharide-induced lung injury following shock. *Rotstein OD: Canadian Institutes of Health Research - Renewal (\$451,715 2000 - 2005).*

Designing new strategies in combat casualty care: From bench to bedside. *Rotstein OD: Defense and Civil Institute of Environmental Medicine (\$107,000 1999 - 2002).*

Determinants of superior performance on spatially complex surgical procedures. *Wanzel, KR, Hamstra SJ, Caminiti MF, Anastakis DJ, Reznick RK: The Physician's Services Incorporated Foundation (\$19,733 2001 - 2002).*

Developing research-based video cases to teach novices to recognize, interpret, and resolve tension in OR team communication: A multi-disciplinary education initiative. *Lingard L, Reznick RK, Espin S, Regehr G, DeVito I: Centre for Excellence in Surgical Education, Research and Training, Association for Surgical Education Foundation (\$47,000 2001 - 2002).*

Does training on a colonoscopy simulator transfer to real patients? *Musselman L, Reznick RK, MacRae H, Hamstra S, Rossos P: Royal College of Physicians and Surgeons of Canada (\$24,250 2002 - 2003).*

Facilitating the adoptions of clinical practice guidelines. Promotion of urine microalbuminuria screening among primary care physicians: a randomized, educational intervention trial. *Naimark DMJ, Bott MT, Tobe SW, Nickell LA, Davis DA, Reznick RK, Poldre P, Hux JE: Canadian Institutes of Health Research (\$60,323 2001 - 2002).*

Health communications research laboratory in the faculty of medicine. *Whiteside C, Davis D, Frecker R., Goel V, Wilson-Pauwels L, Reznick RK: Bell Canada (\$263,652 2000 - 2001).*

Hierarchical statistical methods for analyzing surgical outcome data. *Urbach DR, Austin P: Institute for Clinical Evaluative Sciences in Ontario (ICES) (\$6,113 2001 - 2002).*

How accurate is self-assessment of technical skill, and does self-assessment improve by evaluating peers' performance? *MacRae H, Reznick RK, Regehr G,: Association for Surgical Education Foundation (\$34,059 2001 - 2002).*

Intimidation and harassment and the surgical environment: What is it and what does it do to the educational environment? *Lingard LA, Musselman L, MacRae H, Reznick RK: Physician Services Incorporated Foundation (\$19,000 2002 - 2003).*

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).*

Mechanism of Tolerance Induction in Humans. *Catral, Mark, Reginald Gorczynski, W.P. Min: PSI (\$146,000 2001 - 2003).*

Media-based health communication: Exploring the power of visual media to promote understanding (Development of an internet CPD course on the breast including sentinel node biopsy). *Wilson-Pauels L, Woolridge N, Wiley M, Stewart P, McCready D, Jenkinson J, Hamstra SJ, Schraefel MC: Bell University Laboratories at the University of Toronto Grant (\$153,424 2000 - 2001).*

National surgical adjuvant breast and bowel project B-32. *McCready DR: National Cancer Institute (\$51,000 2001).*

Novel approaches to prevent islet allograft rejection. *Catral MS: Medical Research Council (\$229,026 2000 - 2003).*

Osmotic stress and the cytoskeleton: signaling pathways linking cell volume to cell structure. *Kapus A: Canadian Institutes of Health Research (\$469,148 2001 - 2006).*

Perioperative ischemic evaluation study (POISE study). *Yang, Homer; Multidisciplinary Research Group (Canada-wide) - OD Rotstein (co-investigator): Canadian Institutes of Health Research (\$5,306,074 2001 - 2006).*

Regulation of neutrophil programmed cell death (apoptosis) in clinical and experimental inflammation. *Marshall JC: Medical Research Council of Canada (\$270,000 1999 - 2002).*

Standard-setting in a multiple-competency assessment of senior general surgery residents. *Sidhu R, MacRae H, Regehr G, Herold-McIlroy J, Rotstein LE, Reznick RK: The Royal College of Physicians and Surgeons of Canada (\$24,993 2002 - 2003).*

Toronto Hospital/Ontario Cancer Institute centralized flow cytometry facility. *Michael Howard Julius, Ori D. Rotstein: Medical Research Council of Canada (\$641,895 1999 - 2004).*

Volume-dependent reorganization of the cytoskeleton. *Kapus A: Natural Sciences & Engineering (NSERC) (\$120,000 2000 - 2004).*

## HONOURS RECEIVED

**Dackiw APB:** University of Toronto Surgical Alumni Association Scholarship in Surgical Science, July 2001.

**Langer B:** Appointed Officer of the Order of Canada, January 2002.

**Langer B:** Honorary Fellowship, American College of Physicians, April 2002.

**Langer B:** Honorary Fellowship, Colleges of Medicine of South Africa, October 2001.

**Reznick RK:** Association for Surgical Education Annual Meeting, Haemonetics Corporation Outstanding Paper Award, April 2002.

**Urbach DR:** University of Toronto Faculty of Medicine Dean's Fund Award, December 2001.

## **DIVISION OF NEUROSURGERY**

**Dr. M. Bernstein - Professor (Division Head)**

**Dr. K.D. Davis - Associate Professor**

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

**Dr. M.G. Fehlings - Professor**

**Dr. F. Gentili - Associate Professor**

**Dr. A. Guha - Professor**

**Dr. W.D. Hutchison - Assistant Professor**

**Dr. Krassioukov - Assistant Professor**

**Dr. A.M. Lozano - Professor**

**Dr. P.J. Porter - Assistant Professor**

**Dr. J.A. Saint-Cyr – Associate Professor**

**Dr. C.H. Tator - Professor**

**Dr. K. Thapar - Assistant Professor**

**Dr. M. Tymianski - Assistant Professor**

**Dr. M.C. Wallace - Professor**

## **PUBLICATIONS**

**Anderson G, Boden S, Bridwell K, Ciol M, Deyo R, Dickman C, Dvorak J, Fehlings M, Garfin S, Kats J, Pope M, Rydevik B, Spratt K,;** Breaking down the barriers to restore public confidence: disculose. *Spine*: January 2002: 27 (1): pp 226-242.

**Baker, AJ, Phan, N, Moulton, RJ, Fehlings, MG, Yucel, Y, Zhao, M, Liu, E and Tian, GF:** Attenuation of the electrophysiological function of the corpus callosum after fluid percussion injury in the rat. *Journal of Neurotrauma*: May 2002: 19: pp 587-99.

**Cheung HH, Teves L, Wallace MC, Gurd JW:** Increased phosphorylation of the NR1 subunit of the NMDA receptor following cerebral ischemia. *Journal of Neurochemistry*: September 2001: 78 (5): pp 1179-82.

**Chu GK, Tawadros PS, Kulbatski I, Tator CH:** Death of rat sympathetic ganglion cells in vitro caused by neurite transection: effect of extracellular calcium. *J Neurotrauma*: July 2001: 18: pp 699-710.

**Csokay A, Pentelenyi T, Tator CH, Barros TE, El Masry WS, Ramani PS:** Treatment of severe double spinal cord injuries. *Spinal Cord*: September 2001: 39: pp 492-7.

**Cunin D, Roshan L, Khan FL, Lozano AM, Lang AE, Chen R:** Effects of subthalamic nucleus stimulation on motor cortex excitability in Parkinson's disease. *Neurology*: June 2002: 58(11): pp 1665-1672.

**Davis KD:** Functional brain imaging in humans: methodology and issues. In: *Methods In Pain Research* (Kruger L, ed). CRC Press LLC, Boca Raton: 2001: pp 225-240.

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

**Davis KD:** National Institute of Neurological Disorders and Stroke (NINDS) and the NIH Office on Rare Diseases, Baltimore, Maryland, March 2002. Symposium: The Neurobiology of Craniofacial/Deep Tissue Persistent Pain, fMRI of Pains Arising From Superficial, Deep and Visceral Sites.

**Fehlings MG:** AO International, Davos, Switzerland, December 2001. Interactive Spine Course 1: Occipitocervical trauma: Management of injuries of the occipitocervical junction.

**Fehlings MG:** AO International, Davos, Switzerland, December 2001. Interactive Spine Course 1: Subaxial cervical injury: The role of early stabilization in spinal cord injury.

**Fehlings MG:** Oregon Health Sciences University, Portland, Oregon, May 2002. Invited Lecture: New concepts in management of rheumatoid arthritis of the cervical spine.

**Fehlings MG:** WSIB, Continuing Medical Education/Journal Club, Toronto, Ontario, June 2002. Invited Lecturer: Spinal cord injuries & cauda equina syndrome.

**Fehlings MG:** Canadian Congress of Neurological Sciences, Vancouver, British Columbia, June 2002. Moderator, Spinal Surgery Course: Prevention & Management of Complications after Spinal Surgery.

**Fehlings MG:** AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Orlando, Florida, February 2002. Moderator: Contributed Papers Session.

**Fehlings MG:** AANS Annual Meeting, Chicago, Illinois, April 2002. Moderator: Practical Clinic: Spinal cord injuries- complications and treatment.

**Fehlings MG:** Congress of Neurological Surgeons, San Diego, California, October 2001. Occipitocervical reconstruction with the OMI Loop: Results of a multicenter trial in 50 cases with independent review.

**Fehlings MG:** AANS Annual Meeting, Chicago, Illinois, April 2002. Panelist Practical Clinic: Craniovertebral junction approaches and stabilization techniques: Trauma to craniocervical junction including odontoid screw and C1-C2 facet screw.

**Fehlings MG:** AANS Annual Meeting, Chicago, Illinois, April 2002. Panelist: Breakfast Seminar 105: Management and Treatment of Traumatic Cervical Spinal Cord Injury: "Surgical Management of SCI-- if, when, and how".

**Fehlings MG:** AANS Annual Meeting, Chicago, Illinois, April 2002. Panelist: Spinal Cord Injury: Contemporary Management including Post Traumatic Series.

**Fehlings MG:** American Spinal Injury Association/International Medical Society of Paraplegia, Vancouver, British Columbia, May 2002. Plenary Session 4 - "Cure Strategies: the Cutting Edge": Neuroprotection of the Injured Spinal Cord.

**Fehlings MG:** AO ASIF, Coronado, California, April 2002. Practical Course III: Case presentation: Multilevel Disc Disease.

**Fehlings MG:** AO ASIF, Coronado, California, April 2002. Practical Course III: Cervical Spine Trauma: Decompression - techniques, timing and location.

**Fehlings MG:** AO ASIF, Coronado, California, April 2002. Practical Course III: Degenerative Cervical Spine: MGF: Anterior Cervical Disc Surgery without fusion.

**Fehlings MG:** Canadian Congress of Neurological Sciences, Vancouver, British Columbia, June 2002. Prevention & Management of Complications after Spinal Surgery: Infections After Spinal Surgery.

**Fehlings MG:** Rick Hansen Institute, Vancouver, British Columbia, September 2001. Rick Hansen Institute Spinal Cord Injury Leaders Forum.



**Fehlings MG:** Congress of Neurological Surgeons, San Diego, California, October 2001. Speaker - Luncheon Seminar “Spinal Cord Injury Management: Standards and New Advances: status of the use of neuroprotective agents in acute clinical spinal cord injury”.

**Fehlings MG:** 1st Eastern Canada Spine Course, Montreal, Quebec, April 2002. Speaker: Essentials of anterior and posterior cervical procedures.

**Fehlings MG:** AO ASIF, Washington, District of Columbia, April 2002. Spine Trauma Course – 1) Moderator Session B. Anterior Cervical Fixation, 2) Speaker: Role of Steroids in Acute Spinal Cord Injury, 3) Speaker: Timing of Surgery in Acute Spinal Cord Injury.

**Fehlings MG:** 1st Eastern Canada Spine Course, Montreal, Quebec, April 2002. Surgical treatment of arthritis in the cervical spine.

**Fehlings MG:** Canadian Spine Society Meeting, Vernon, British Columbia, March 2002. Symposium: Rheumatoid Spine: Discussion: “Is Transoral Surgery a thing of the past? (presented view for “yes”), 2) Symposium: Rheumatoid Spine: Role of transoral decompression in rheumatoid cervical spine disease.

**Fehlings MG:** Congress of Neurological Surgeons, San Diego, California, October 2001. University of Toronto Spinal Neurosurgery Fellowship Program: Resident Seminar.

**Fehlings MG:** Queens University, Kingston, Ontario, June 2002. Visiting Professor: Seminar “Neuroprotection of the injured spinal cord: from molecule to man.

**Fehlings MG:** Henry Ford Health System, Henry Ford Hospital, Detroit, Michigan, March 2002. Visiting Professor: Grand Rounds Lecture: Rheumatoid arthritis of the cervical spine: evolving concepts in pathophysiology and surgical management, 2) Visiting Professor: Review and discussion on unique cases presented by community neurosurgeons.

**Fehlings MG:** Oregon Health Sciences University, Portland, Oregon, May 2002. Visiting Professor: Case presentations and reviews with resident staff.

**Fehlings MG:** University of Ottawa, Division of Neurosurgery, The Ottawa Hospital, Ottawa, Ontario, January 2002. Visiting Professor: Management of Rheumatoid Arthritis of the Cervical Spine followed by Resident Presentations.

**Hutchison WD:** Congress of Neurological Surgeons, Satellite meeting on microelectrode recording, Host Kim Burchiel, San Diego, California, September 2001. Microelectrode findings in globus pallidus during movement disorders surgery.

**Krassioukov A:** Department of Anatomy, Queen’s University, Kingston, Ontario, July 2001. Cardiovascular control in spinal man.

**Krassioukov A:** Miami University, Miami Project to Cure Paralysis, Miami, Florida, September 2001. Cardiovascular control in spinal man.

**Krassioukov A:** Flinders University, Adelaide, Australia, July 2001. Early autonomic dysreflexia is under-recognised clinical condition.

**Krassioukov A:** Satellite Symposium of International Union of Physiological Society, Sidney, Australia, August 2001. Effect of spinal cord injury on spinal sympathetic circuits and possible mechanisms for autonomic dysreflexia. “Autonomic dysfunction after SCI”.

**Krassioukov A:** Department of Zoology, University of British Columbia, Vancouver, British Columbia, June 2002. Mechanisms of abnormal cardiovascular control after spinal cord injury.

**Lozano AM:** 51st Congress of Neurological Surgeons, San Diego, California, September 2001. (1) Course Director, Movement Disorders: Pathophysiology, diagnosis treatment. (2) Faculty, Surgical management of tremor: Role of thalamotomy, chronic thalamic stimulation and stereotactic radiosurgical thalamotomy (3) Moderator, Section on stereotactic and functional surgery 1: Reinventing stereotactic surgery (4) Moderator/Lecturer, Section on Stereotactic and Functional Surgery II: Management of the “other” movement disorders: Dyttonia, chorea, and rubral tremor.

**Lozano AM:** 12th World Congress of Neurosurgery, Sydney, Australia, September 2001. (1) Future perspective in Parkinson’s disease surgery. (2) Computer-assisted neurosurgery.

**Lozano AM:** XIV International Congress on Parkinson’s Disease, Helsinki, Finland, July 2001. (1) Physiolgoical studies of human brain in movement disorders. (2) Lessons from the operating room: The 5 w’s: who, what, where, when and why.

**Lozano AM:** 13th Meeting of the World Soceity of Stereotactic and Functional Neurosurgery, Adelaide, Australia, September 2001. (1) What have we learnt from human microelectrode recording? (2) Pathophysiology of dystonia. (3) Stimulatoin of the anterior nucleus of the thalamus for epilepsy (4) Can STN stimulation/lesioning be made easier. What are the minimum requirements? (5) Surgery for movement disorders other than Parkinson’s disease. (6) Chronic in vivo microdialysis during subthalamic nucleus (STN) deep brain stimulation (DBS) in patients with Parkinson’s disease. Chair & Discussion leader, Forum disscussing Mechanisms of deep brain stimulation (Sept 10). Co-chair, Dystonia/Pain/Epilepsy/Psychiatry (Sept 11): Futuer directions in management of Parkinson’s disease (Sept 12) Movement disorders (Sept 13).

**Lozano AM:** The Cleveland Clinic Foundation, San Juan, Puerto Rico, February 2002. 1) DBS mechanisms: The debate 2) Why do some patients lose the benefits of DBS while others ho longer require stimulation? 3) Anterior thalamus for epilepsy.

**Lozano AM:** National neuroscience Institute, Singapore, Malaysia February 2002. 1) Essentials for starting a Movement Disorders Surgery Programme 2) Deep brain stimulation for Parkinson’s disease: What does it take? 3) Surgical treatment of Parkinson’s disease 4) Surgical treatment of dystonia and tremors.

**Lozano AM:** VII Neurosurgery Congress of the Spanish Society, Santiago de Compostela, Spain, May 2002. 1) Moderator: Estimulacion cerebral profunda en la enfermedad de Parkinson. Estudio doble ciego a largo plaz. 2) Chair Satelite Congress: Surgery of Parkinson’s and Abnormal Movement. 3) Speaker, Tratamiento de las distonias con estimulacion cerebral profunda 4) Speaker: Functional Neurosurgery: The future is not what it used to be.

**Lozano AM:** AANS/CNS Section on Stereotactic and Fucntional Neurosurgery, Chicago, Illinois, April 2002. Director “Contemporary Management of Movement Disorders”, Panelist “Current Surgical Alternative and Complications in the treatment of Parkinson’s Disease”, Modereator, Scientific Session.

**Lozano AM:** University of Innsbruck, Austria, May 2002. Experimental and future surgical therapies in movement disorders.

**Lozano AM:** University of California, San Diego, California, March 2002. Gene therapy for Alzheimer’s disease.

**Lozano AM:** American Academy of Neurology, Denver, Colorado, April 2002. Innovative surgical treatments of movement disorders.

**Lozano AM:** Brazilian Academy of Neurosurgery, Belem, Brazil, October 2001. Invited International Speaker (1) Keynote address: Future directions in functional neurosurgery. Plenary lectures (1) Surgery for Parkinson’s disease; (2) Surgery for dytonia; (3) Basal ganglia anatomy and physiology.

**Lozano AM:** Italian Clnical Neurophysiology Society, Ferrara, Italy, March 2002. IOM for deep brain stimulation: why, when, where, what.

**Lozano AM:** Stanford University, First Annual Clinical Sciences Symposium, Palo Alto, California, November 2001. Keynote speaker, The future of functional neurosurgery. Breakout session, stereotaxic surgery and surgical navigation.

**Lozano AM:** International Workshop on Parkinson's Disease & Movement Disorders, Chennai, India, February 2002. Recent advances in the surgical management of Parkinson's disease.

**Lozano AM:** Deep Brain Stimulation Consortium Meeting, Rockville, Maryland, June 2002. Speaker "What are the motor and non-motor effects of DBS?".

**Lozano AM:** International conference on Movement Disorder and Pain: Medical Management and Functional Neurosurgery, Oxford University, Oxford, United Kingdom, April 2002. Speaker: What is the future for surgery in Parkinson's disease.

**Lozano AM:** University Estacion de Sa, Rio de Janeiro, Brazil, October 2001. Surgery for movement disorders.

**Lozano AM:** North Shore Neurosciences Institute, New York, New York, December 2001. Visiting Professor, Functional neurosurgery: Future directions.

**Porter PJ:** The Fifth Joint Annual Meeting of the AANS/CNS Section on Cerebrovascular Surgery and the American Society of Interventional and Therapeutic Neuroradiology, Addison (Dallas), Texas, February 2002. Midterm clinical and angiographic follow up of aneurysms completely treated using GDC.

**Porter PJ:** Heart and Stroke Foundation, Toronto, Ontario, December 2001. Recognition, treatment and prevention of cerebral hemorrhage. Plenary session - contemporary issues in cerebrovascular disease. Dec 7.

**Thapar K:** Epilepsy Toronto, Toronto, Ontario, November 2001. Annual Epilepsy Day Conference, "Epilepsy surgery".

**Thapar K:** Inn on the Park., Toronto, Ontario, March 2002. Day in Primary Eye Care.

**Wallace MC:** 2nd International Mt. Bandai Symposium for Neuroscience, Koriyama, Japan, October 2001. Have randomized trials had an impact on neurosurgical treatment of carotid stenosis?

**Wallace MC:** Division of Neurosurgery, Universite Laval, Quebec City, Quebec, May 2002. Intracranial aneurysms: Treatment strategies.

**Wallace MC:** Olivercrona & Leksell Professorship Lectures, Karolinska Symposium, Stockholm, Sweden, December 2001. Large AVM's: What can we expect?

**Wallace MC:** The Neurosurgical Society of America and the The Society of British Neurological Surgeons, Kaiwah Island, South Carolina, April 2002. Natural history and outcome of management of aggressive cranial dural arteriovenous fistulae.

**Wallace MC:** Division of Neurosurgery, University of British Columbia, Vancouver, British Columbia, May 2002. Natural history of vascular malformations: When is treatment indicated?

**Wallace MC:** 93rd Meeting, The Society of Neurological Surgeons, Toronto, Ontario, May 2002. The Canadian Perspective.

**Wallace MC:** European Society of Intensive Care Medicine, Geneva, Switzerland, September 2001. The diagnosis and treatment of vasospasm.

**Wallace MC:** Division of Neurosurgery, University of Ottawa, Ottawa, Ontario, February 2002. Understanding dural arteriovenous fistulae.

**Wallace MC:** Stanford Neuroscience/Neurosurgery Grand Rounds, Stanford University, Stanford, California, November 2001. Vascular malformations and fistulae: when not to treat.

**Wallace MC:** South African Society of Interventional Neuroradiology, South Africa, August 2001. Visiting Professor - Lectures in Pretoria, Cape Town, Durban, Bloemfontein on Current Management Strategies for Intracranial Aneurysm.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

*Wallace MC: Rothman, Benson & Hedges Incorporated* (\$25,000 2000 - 2004).

(Renewal) Ependymal stem cells for spinal cord repair. *Tator CH: Ontario Neurotrauma Foundation* (\$79,973 2001 - 2004).

An investigation of the neuroprotective effect of inhibition of post-traumatic FAS and p75 initiated apoptosis in the spinal cord. *Fehlings, MG: Christopher Reeve Paralysis Foundation* (\$182,868 2001 - 2003).

Attention-related responses in the human cingulate cortex. *Davis KD: Ontario Mental Health Foundation* (\$119,900 2001 - 2003).

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).

Cortical plasticity following thumb amputation, toe transfer and rehabilitation. *Anastakis DJ, Mikulis D, Chen R, Davis K, Chang M: American Association For Surgery of the Hand* (\$3,000 2002 - 2003).

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 of Mouse Models of Human Astrocytomas. *Gutmann, D., Guha, A: NIH: R01* (\$1,341,280 2001 - 2005).

Doctoral training award to Lori Mutsaers (MD-PhD student). *Fehlings MG: Medical Research Council of Canada* (\$62,780 1998 - 2002).

Enhancing axonal regeneration following spinal cord injury by in situ delivery of neurogenerative factors. *Shoichet M, Tator CH: Canadian Institute of Health Research* (\$101,000 2001 - 2003).

Enhancing axonal regeneration following spinal cord injury by in situ delivery of neurogenerative factors. *Shoichet M, Tator CH: Canadian Institute of Health Research* (\$86,000 2002 - 2003).

Equipment Grant for "Fluorescence and infrared imaging system for neurotrauma patch clamping". *Fehlings, MG, Carlen, PL: Canadian Institutes of Health Research* (\$69,757 2001 - 2002).

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).

Expression and functional role of angiopoietins in human astrocytomas. *Guha A: Medical Research Council of Canada* (\$270,000 1999 - 2002).

Finding cures for glioblastomas: Characterization of a mouse transgenic astrocytoma model as a therapeutic testing platform. *Guha A: Cleveland Clinic Foundation* (\$150,000 2002).

fMRI investigation of the temporal changes that occur in cerebral sensorimotor cortex following cervical spinal cord injury. *Mikulis D, Fehlings MG, McIlroy W, Verrier M: Ontario Neurotrauma Foundation/Rick Hansen Institute* (\$165,000 2000 - 2003).

Hospital For Sick Childrens Translational Research Grant: VEGF Expression and Ras Activation in Progressive Neurofibromas. *Baruchel s, Guha A, Martin, P, Guedensheit B: Hospital For Sick Children* (\$40,000 2000 - 2002).

Human studies of pain and temperature sensation. *Davis KD: Medical Research Council of Canada* (\$251,314 1998 - 2001).

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

Human sympathetic preganglionic neurons and abnormal cardiovascular control after spinal cord injury. *Krassioukov AV, Fehlings MG: Connaught New Staff Matching Grant, University of Toronto* (\$29,167 2001 - 2003).

Imaging of anterior cingulate cortex and attentional processes in obsessive compulsive disorder. *KD Davis, Jonathan Dostrovsky, William D. Hutchison, Andres Lozano: Ontario Mental Health* (\$59,900 2000 - 2001).

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).

International subarachnoid aneurysm trial. *Willinsky RA, Wallace MC: Medical Research Council of Canada* (\$32,400 1998 - 2001).

Investigation and treatment of traumatic axonal dysfunction after spinal cord injury. *Fehlings MG: Canadian Institutes of Health Research (CIHR)* (\$346,332 2000 - 2003).

Lab Support. *Tator CH: Canadian Paraplegic Association, Ontario Branch* (\$30,820 2000 - 2001).

Larson Award: Establishment of a database of potential donors for a Canadian spinal cord tissue bank. *Krassioukov AV, Fehlings MG: 2002 Larson Award - AANS/CNS* (\$15,000 2002 - 2003).

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 deep brain stimulation for Parkinson's disease. *Dostrovsky JO, Hutchison WD, Lozano AM: National Institute of Health* (\$375,000 2001 - 2003).

Molecular mechanisms of calcium neurotoxicity. *Tymianski M: National Institutes of Health* (\$550,000 2000 - 2003).

Mouse Astrocytoma Model. *Gutmann D, Guha A: Gene Chip Discover Grant* (\$15,000 2000 - 2001).

Mouse Astrocytoma Model: Astrocyte Specific Knockout of PTEN/MMAC1. *Guha A: The Cancer Research Society* (\$100,000 2000 - 2002).

MRC Clinician Scientist Award: Phase 2. *Guha A: Medical Research Council of Canada* (\$302,400 1999 - 2002).

Multi-User Operating Grant--Centralized Flow Cytometry: OCI/PMH. *Guha A and Group: Medical Research Council of Canada* (\$641,895 1999 - 2004).

Neovascularization in Cerebral Ischemia. *Guha A, Nagy A, Wallace C: Heart and Stroke Foundation* (\$372,000 2000 - 2003).

Neovascularization in cerebral ischemia. *Guha A, Wallace MC, Nagy A: Heart & Stroke Foundation of Ontario* (\$246,428 1998 - 2004).

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).

Neuroprotection of the injured spinal cord (Ependymal stem cells for spinal cord repair). *Schwartz, G, Fehlings MG: Ontario Neurotrauma Foundation* (\$40,000 2000 - 2001).

Neuroprotection of the injured spinal cord: role of the mGluR1 receptor. *Fehlings MG: Physicians Services Incorporated Foundation* (\$140,000 2000 - 2002).

Neuroprotection of the injured spinal cord: strategies to target death receptor mediated apoptosis. *Michael G. Fehlings: Physicians Services Incorporated Foundation* (\$135,600 2002 - 2004).

Operating Grant. *Guha A: National Cancer Institute of Canada* (\$447,000 1999 - 2002).

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).

Plastic changes in sympathetic spinal circuits after human spinal cord injury. *Krassioukov, AV, Fehlings, MG, Shannon, P: Heart and Stroke Foundation of Ontario* (\$112,000 2002 - 2004).

Plasticity in human spinal circuits after spinal cord injury. *Krassioukov AV, Fehlings MG: Cervical Spine Research Society* (\$41,000 2001 - 2002).

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* (\$225,000 2001 - 2006).

Postdoctoral Fellowship Award to Gordon Chu. *Michael G. Fehlings: CIHR* (\$45,000 2001 - 2004).

Postdoctoral fellowship award to Nicholas Phan. *Fehlings MG: Medical Research Council of Canada* (\$132,000 1999 - 2002).

Preclinical Mouse Models for Human Astrocytomas. *Gutmann D, Guha A: American Cancer Society* (\$675,000 2000 - 2003).

Role of a novel ischemia-induced gene in neuronal death. *Wallace MC, Eubanks J: Heart & Stroke Foundation of Ontario* (\$121,000 2001 - 2003).

Role of FAS activated caspases in the pathophysiology of spinal cord injury. *Fehlings MG: Premier's Research Excellence Award* (\$148,850 1999 - 2002).

Role of glial AMPA/Kainate receptors in neurotrauma. *Fehlings MG, Zhang L; Eubanks J; Gurd J; Carlen P; Baker A: Medical Research Council of Canada/Canadian Neurotrauma Research Program (MRC/CNRP 1999-01)* (\$279,000 1999 - 2002).

Role of the mGluR1 metabotropic glutamate receptor in the pathophysiology of central nervous system trauma. *Fehlings MG, Baker A: Ontario Neurotrauma Foundation/Rick Hansen Institute* (\$163,300 2000 - 2003).

Role of the mGluR1 receptor in diffuse axonal injury after brain and spinal cord trauma: potential for a novel, clinically relevant neuroprotective strategy. *Phan, N, Fehlings, MG: American Association of Neurological Surgeons and Synthes* (\$1,600 2001 - 2002).

Sanford Larson Award: for "Intraoperative Computerized Tomography and Spinal Navigation: Application in the Cervical Spine". *Fehlings MG, Rampersaud YR: American Association of Neurological Surgeons* (\$15,000 2001 - 2002).

Start-up funds. *Krassioukov AV: University of Toronto, Department of Surgery* (\$80,000 2000 - 2002).

Stroke CHANGE THIS. *Tymianski M: National Centres of Excellence* (\$50,000 2000 - 2002).

Studentship Award to A. Ackery: Use of sodium channel blockers to protect the injured spinal cord. *Alun Ackery, Fehlings MG: Ontario Neurotrauma Foundation (01016-S)* (\$60,000 2001 - 2003).

Studentship award to graduate student Mital Joshi (The use of genetically engineered mice to probe the excitatory hypothesis of spinal cord injury). *Fehlings MG: Ontario Neurotrauma Foundation/Rick Hansen Institute* (\$60,000 2000 - 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).*

Summer Scholarship Award to Mital Joshi. *Joshi, Mital, Fehlings, MG: University of Toronto Faculty of Medicine (\$4,000 2001).*

Tasker Chair in Functional Neurosurgery. *Lozano AM: Medtronic Inc (\$200,000 1998 - 2003).*

Tasker Chair in Functional Neurosurgery. *Lozano AM: Radionics Inc (\$15,000 1998 - 2003).*

Tasker Chair in Functional Neurosurgery. *Lozano AM: University Health Network, University of Toronto (\$2,000,000 2000 - 2004).*

The efficacy of two modalities - intravenous iron and recombinant erythropoietin for the treatment of profound postoperative anemia. *Karkouti K, Quirt I, McCluskey S, Rampersaud R, Yau T: PSI (\$99,500 2001 - 2003).*

The fate of human sympathetic preganglionic neurons after spinal cord injury. *Krassioukov AV, Fehlings MG, Norenberg M, Shannon P: Christopher Reeve Paralysis Foundation, USA (\$69,500 2000 - 2002).*

The fate of human sympathetic preganglionic neurons after spinal cord injury. *Krassioukov A, Fehlings MG, Shannon P, Norenberg, M (University of Miami School of Medicine, Miami, Florida): Christopher Reeve Paralysis Foundation (\$43,750 2000 - 2001).*

The fate of human sympathetic preganglionic neurons after spinal cord injury. *Krassioukov, Andrei, Fehlings MG, (UHN) and Shannon P (University of Miami, School of Medicine, Miami, Florida.): Cervical Spine Research Society (\$27,713 2000 - 2002).*

Tissue engineering repair strategies for spinal cord injury. *Shoichet M, Tator CH: Natural Sciences and Engineering Research Council of Canada (\$135,644 2001 - 2003).*

Tissue engineering repair strategies for spinal cord injury. *Shoichet M, Tator CH: Natural Sciences and Engineering Research Council of Canada (\$161,858 2002 - 2003).*

Transgenic mouse modeling of malignant astrocytomas. *Guha A: Premiers Research Excellence Award (\$150,000 2000 - 2003).*

Translational Res Grant: Transgenic models of human astrocytomas. *Guha A, Ding H: American Brain Tumor Association (\$75,000 2000 - 2001).*

Translational Research: P13 Kinase and MAPKinase activation as prognostic indicators of GBM patients. *Guha A: Radiation Therapy Oncology Group (\$22,500 2000 - 2001).*

Tyrosine phosphorylation and molecular organization of the NMDA receptor following transient global ischemia: Implications for neuronal survival. *Gurd J, Wallace MC: Heart & Stroke Foundation of Canada (\$230,700 1998 - 2001).*

Use of genetically modified mice to probe the excitotoxic hypothesis of spinal cord injury (ONRO-64). *Roder J, Fehlings MG: Ontario Neurotrauma Foundation (\$150,000 1998 - 2001).*

Vascular growth factor receptors as a target for Ager electron radiotherapy of malignant astrocytomas. *Sandhu J/ Guha A, Reilly R: NSERC (\$239,607 1999 - 2002).*

**HONOURS RECEIVED**

**Fehlings MG:** Krembil Chair in Neural Repair and Regeneration, July 2001.

**Krassioukov:** Larson Award, American Association of Neurological Surgeons/CNS, USA, March 2002.

**Lozano AM:** Elected Honorary Member, Neurosurgical Society of Para, Brazil, July 2001.

**Tator CH:** 2001 Dr. Jonas Salk Award of the Ontario March of Dimes, October 2001.

**Tator CH:** Appointment to the Robert Campeau Family Foundation Chair in Brain and Spinal Cord Research, November 2001.

**Guha A:** Appointment to the Alan and Susan Hudson Chair in Neurooncology.

## **DIVISION OF ORTHOPAEDIC SURGERY**

**Dr. J.R. Davey - Assistant Professor (Division Head)**

**Dr. B.A. Graham - Assistant Professor**

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

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

**Dr. G. L. Lloyd – Associate Professor**

**Dr. N. Mahomed - Assistant Professor**

**Dr. K.W. Marshall - Assistant Professor**

**Dr. A. Miniaci - Associate Professor**

**Dr. D.J. Ogilvie-Harris - Associate Professor**

**Dr. Y. R. Rampersaud - Lecturer**

**Dr. H.P. von Schroeder - Assistant Professor**

## **PUBLICATIONS**

**Miniaci A, Morelli M, Nagamori J:** Articular lesions in the knee: evaluation and treatment options. *Current Opinion in Orthopaedics*: April 2002: 13: pp 6.

**Bogoch ER, Henke M, Mackenzie T, Olschewski E, Mahomed NN:** Lumbar Paravertebral Nerve Block in the Management of Pain Following Total Hip and Knee Arthroplasty: A Randomized Controlled Clinical Trial. *Journal of Arthroplasty*: June 2002: 17(4): pp 398-401.

**Bridwell KH, Kuklo TR, Lewis SJ, Sweet FA, Lenke LG, Baldus C:** String test measurement to assess the effect of spinal deformity correction on spinal canal length. *Spine*: September 2001: 26(18): pp 2013-9.

**Choi CH Ogilvie-Harris DJ:** Occult osteochondral fractures of the subtalar joint. *Journal of Foot and Ankle Surgery*: February 2002: 41: pp 40-3.

**Choi Ogilvie-Harris:** Multidirectional instability of the shoulder in contact sports. *BR.Journ.Sports Medicine*: February 2002:

**Hudak PL, Clark JP, Hawker GA, Coyte PC, Mahomed NN, Kreder HJ, Wright JG:** You're Perfect For The Procedure! Why Don't You Want It? Elderly Arthritis Patients' Unwillingness to Consider Total Joint Arthroplasty Surgery: Qualitative Study. *Medical Decision Making*: May 2002: 22(3): pp 272-8.

**Jenkins K, Chung F, Wennberg R, Etchells E, Davey J R:** Fat embolism syndrome and elective knee arthroplasty. *Canadian Journal of Anaesthesia*: January 2002: 49: pp 19-24.

**Karabatsos B, Mahomed NN, Maistrelli GL:** Functional Outcome of Total Knee Arthroplasty After High Tibial Osteotomy. *Canadian Journal of Surgery*: April 2002: 45(2): pp 116-119.

**Katz JN, Losina E, Barrett J, Phillips CB, Mahomed NN, Lew R, Guadagnoli E, Harris WH, Poss R, Baron JA:** Association Between Hospital and Surgeon Procedure Volume and Outcomes of Total Hip Replacement in the US Medicare Population. *Journal of Bone and Joint Surgery (American)*: November 2001: 83A: pp 1622-1629.

**Krona SC, Chan VW, Regan J, Peng P, Poate EM, McCartney C, Miniaci A:** Analgesic effects of low-dose ropivacaine for interscalene brachial plexus block for outpatient shoulder surgery - A dose finding study. *Reg anesth pain med*: September 2001: 26(5): pp 439-443.

**Kuklo TR, Bridwell KH, Lewis SJ, Baldus C, Blanke K, Iffrig TM, Lenke LG:** Minimum 2-year analysis of sacropelvic fixation and L5-S1 fusion using S1 and iliac screws. *Spine*: September 2001: 26(18): pp 1976-83.

**Lewis SJ, Lenke LG, Raynor B, Long J, Bridwell KH, Padberg A:** Triggered Electromyographic threshold for accuracy of thoracic pedicle screw placement in a porcine model. *Spine*: September 2001: 26: pp 2485-90.

**Mahomed NN, Arndt D, McGrory B, Harris WH:** The Harris Hip Score. Comparison of patient self report with surgeon assessment. *Journal of Arthroplasty*: August 2001: 16: pp 575-580.



**Mahomed NN, Hawker G:** Total hip and knee replacement: An update. *Ceriatrics and Aging*: July 2001: 4(5): pp: 20-21.

**Mahomed NN, Liang MH, Cook EF, Daltroy LH, Fortin PR, Fossel AH, Katz JN:** The Importance of Patient Expectation's in Predicting Functional Outcomes After Total Joint Arthroplasty. *Journal of Rheumatology*: June 2002: 29(6): pp 1273-1279.

**Marshall K.W:** Intra-articular therapy in knee osteoarthritis: the role of viscosupplementation. *American Journal of Orthopaedics*: August 2001: XXX(8S): pp 23-30.

**Marx RG, Wotherspoon S, Stephens D, Davey JR:** Patient factors affecting autologous and homologous blood transfusion rates in total hip arthroplasty. *The American Journal of Orthopaedics*: December 2001: 12: pp 867-871.

**Miniaci A:** Articular Cartilage Injuries: Clinical Treatment Options and Basic Science. In: *Book of Abstracts & Instructional Course Handouts (2002 Arthroscopy Association of North America, ed)*. Arthroscopy Association of North America, Rosemont, Illinois: 2002: pp 386-393.

**Miniaci A:** Decision Making in Multidirectional Shoulder Instability. *Arthroscopy Association of North America Book of Abstracts & Instructional Course Handouts (Arthroscopy Association of North America, ed)*. 2002 Arthroscopy Association of North America, Rosemont, Illinois: 2002: pp 603-608.

**Miniaci A:** Failed Shoulder Instability Surgery. In: *Current Concepts in Arthroplasty Trauma & Sports Injuries Gold Coast, Australia: 2001*.

**Miniaci A:** Massive Rotator Cuff Tears. *Current Concepts in Arthroplasty Trauma & Sports Injuries Gold Coast, Australia: 2001*.

**Miniaci A:** Thermal Approach to Multidirectional Instability. *Arthroscopy Association of North America 2002 Speciality Day (Arthroscopy Association of North America, ed)*. Arthroscopy Association of North America, Dallas, Texas: 2002: pp 62-66.

**Miniaci A:** Thermal Surgery for multidirectional instability: Indications and Techniques. In: *Arthroscopy Association of North America: 20th Fall Course (Arthroscopy Association of North America, ed)*. AANA, San Antonio, Texas: 2001: pp 313-317.

**Miniaci, A, Mascia, A, Salonen, D, Becker, E:** Magnetic Resonance Imaging of the Shoulder in Asymptomatic Professional Baseball Pitchers. *The American Journal of Sports Medicine*: January 2002: 30 (1): pp 66-73.

**Nicholas A, Sgaglione, Anthony Miniaci, Scott D. Gillogly, Thomas R. Carter:** Update on Advanced Surgical Techniques in the Treatment of Traumatic Focal Articular Cartilage Lesions in the Knee. *Arthroscopy: The Journal of Arthroscopic and Related Surgery*: February 2002: 18 (2): pp 9-32.

**Robinson P White LM Salonen D Ogilvie-Harris DJ:** Anteromedial impingement of the ankle. *Amer. J. Roentgenology*: March 2002: 178: pp 601-4.

**Robinson P, White LM, Salonen DC, Daniels TR, Ogilvie-harris DJ:** anterolateral ankle impingement. *Radiology*: October 2001: 221: pp 186-90.

**Shulz S, Koo M. Mahomed N:** Arthroplasty: Home based rehab offers alternative for some. *Biomechanics/Rehab*: September 2001: Sep: pp 186-90.

**Williams J, Mahomed NN:** Shorter waiting times for hip and knee replacement on the horizon. *Hospital Quarterly*. October 2001: 4(2): pp 21.

**INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

**Davey JR:** Perth Orthopaedic Surgeons Meeting, Perth, Australia, November 2001. 1. Femoral off-set in the total hip 2. The ideal cemented femoral stem design 3. Cementless tapered stem.

**Davey JR:** Melbourne Orthopaedic Surgeons Meeting, Melbourne, Australia, November 2001. 1. Femoral offset 2. Ideal cemented femoral stem design 3. Cementless revision total hip arthroplasty.

**Davey JR:** Genesis Total Knee Users Group Meeting, Sanctuary Cove, Australia, November 2001. 1. Femoral offset 2. Ideal cemented femoral stem design 3. Exposures for total knee arthroplasty 4. Posterior cruciate ligament save or sacrifice 5. Balancing the revision total knee.

**Davey JR:** Adelaide Orthopaedic Surgeons Meeting, Adelaide, Australia, November 2001. 1. Ideal cemented femoral cemented stem design 2. Posterior cruciate ligament - sacrifice or save.

**Davey JR:** Hunter Orthopaedic Meeting, Sydney, Australia, November 2001. 1. The importance of offset in hip replacement 2. Infection in total knee replacement.

**Davey JR:** Kelowna Orthopaedic Association, Kelowna, British Columbia, February 2002. Cementless total hip arthroplasty; cemented total hip arthroplasty; cementless acetabular design; revision total hip arthroplasty; femoral offset; primary total knee.

**Davey JR:** Comprehensive Surgery of Primary and Revision Total Hip and Total Knee Arthroplasty, Vail, Colorado, January 2002. Femoral offset.

**Davey JR:** Royal Adelaide Hospital Grand Rounds, Adelaide, Australia, November 2001. Femoral offset.

**Davey JR:** Rouge Valley Health Authority Group, Toronto, Ontario, November 2001. Femoral offset; cementless stems; cemented total hip replacement; revision total hip replacement and cementless acetabular cups.

**Davey JR:** Total Hip Meeting, Kohler, Wisconsin, October 2001. Femoral offset; cementless stems; cemented total hip replacement; revision total hip replacement and cementless acetabular cups.

**Davey JR:** Basic Science Course, Ottawa, Ontario, October 2001. Review of total joint arthroplasty.

**Davey JR:** Minimally invasive solutions and emerging technologies in total hip and knee arthroplasty, Markham, Ontario, June 2002. The importance of extended offset in femoral components; trabecular metal in acetabular revisions.

**Lewis SJ:** American Association of Orthopaedic Surgeons 69th Annual Meeting, Dallas, Texas, February 2002. The results and complications of pedicle subtraction osteotomies for the treatment of fixed sagittal imbalance.

**Mahomed N:** AAOS Total Joint Registry Workshop, Washington, District of Columbia, December 2001. Data currently available in the Medicare database.

**Mahomed N:** Joint Effort 2002 - The Arthritis Society, Toronto, Ontario, May 2002. When is Surgery Necessary?

**Mahomed N:** AAOS Total Joint Registry Workshop, Washington, District of Columbia, December 2001. Data currently available in the Medicare database.

**Miniaci A:** American Academy of Orthopaedic Surgeons, Rosemont, Illinois, May 2002. Moderator of session.

**Miniaci A:** Baptist Hospital 11th Annual Orthopaedic Conference: Baptist Center for Medical Education, Nashville, Tennessee, May 2002. (1) Cartilage manipulation and resurfacing techniques (2) Non-arthroplasty options for glenohumeral osteoarthritis (3) Proximal humerus fractures.

**Miniaci A:** Arthroscopy Association of North America 21st Annual Meeting, Washington, District of Columbia, April 2002. 1) Articular Cartilage Injuries 2) Decision Making in Multidirectional Shoulder Instability.

**Miniaci A:** 16th Annual Vail Orthopaedic Symposium: Upper Extremity, Vail, Colorado, January 2002. 1) HHR for Fractures: Indications and Technique 2) Total Shoulder Arthroplasty Cadaver Laboratory- Lab Instructor.

**Miniaci A:** Emerging Trends Whistler 2002 Orthopaedic Symposium: Upper Extremity, Whistler, British Columbia, March 2002. 1) Humeral Head Fractures: ORIF versus Replacement 2) Treatment of Complications of Humerus Fractures: Moderator.

**Miniaci A:** Programme D'orthopedie Edouard-Samson, Universite de Montreal - Visiting professeur, Montreal, Quebec, November 2001. 1) Massive rotator cuff tears 2) Osteochondral defects of the knee 3) Arthroscopic shoulder stabilization 4) failed shoulder instability.

**Miniaci A:** Ontario Orthopaedic Association 24th Annual General Meeting, Toronto, Ontario, November 2001. 1) Osteochondral transplantation: Basic Science 2) Osteochondritis Desiccans of the Knee: How to manage the symptomatic patient 3) Failed shoulder instability repairs: How to reconstruct bone and soft tissue deficiencies.

**Miniaci A:** Quebec Orthopaedic Association, Quebec, Quebec, November 2001. 1) Tears of the rotator cuff: Aetiology and treatment 2) Impingement vs. instability: How to differentiate between the two 3) Massive tears of the rotator cuff: treatment.

**Miniaci A:** American Academy of Orthopaedic Surgeons, San Diego, California, September 2001. 1) Thermal approach to microinstability 2) Tendon transfer for irreparable tear 3) Arthroscopic repairs: decompression, biceps distal clavicle, rotator cuff, instability-Lab instructor.

**Miniaci A:** American Academy of Orthopaedic Surgeons, San Diego, California, September 2001. 1) Thermal approach to microinstability 2) Arthroscopic repairs: decompression, biceps, distal clavicle, rotator cuff, instability - lab instructor 3) Tendon transfer for irreparable tear.

**Miniaci A:** Australian Orthopaedic Association, Gold Coast, Australia, July 2001. Basic Science and Clinical Application of Osteochondral Transplantation.

**Miniaci A:** Australian Orthopaedic Association, Gold Coast, Australia, July 2001. Massive Rotator Cuff Repairs.

**Miniaci A:** International Cartilage Repair Society 4th Symposium, Toronto, Ontario, June 2002. Mosaicplasty-Surgical Skills Lab.

**Miniaci A:** National Articular Cartilage Course for Sports Medicine Fellows: Comprehensive Approaches to Articular Cartilage Repair and Management, San Diego, California, December 2001. Osteochondral Allograft: OCD.

**Miniaci A:** 2nd Annual Shoulder Experts Forum/Smith & Nephew, Inc., Salzburg, Austria, June 2002. Suretac for Rotator Cuff Repair a Retrospective Clinical Review.

**Miniaci A:** The Canadian Orthopaedic Association/The American Orthopaedic Association Combined Meeting, Victoria, British Columbia, June 2002. Thermal Capsulorrhaphy: What's hot, what's not.

**Miniaci A:** Arthroscopy Association of North America, San Antonio, Texas, November 2001. Thermal Surgery for Multidirectional Instability: Indications and Techniques.

**Miniaci A:** 16th Annual Vail Orthopaedic Symposium: Trauma Update, Vail, Colorado, January 2002. Three and four part fractures of the proximal Humerus.

**Miniaci A:** Three and four part fractures of the proximal humerus. 16<sup>th</sup> Annual Vail Orthopaedic Symposium Trauma Update (HealthStream Education Design, ed) HealthStream, Denver, Colorado. 2002.

**Miniaci A:** Three and four part fractures of the proximal humerus. 16<sup>th</sup> Annual Vail Orthopaedic Symposium Upper Extremity (HealthStream Education Design, ed). HealthStream, Denver, Colorado. 2002

**Rampersaud YR:** The Canadian Spine Society, Vernon, British Columbia, March 2002. Blood conservation in elective spinal surgery.

**Rampersaud YR:** 2nd Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery, Santa Fe, New Mexico, June 2002. Clinical accuracy of fluoroscopic computer-assisted pedicle screw placement. A prospective CT analysis.

**Rampersaud YR:** Joint Section of the Disorders of the Spine, Orlando, Florida, February 2002. Clinical accuracy of fluoroscopic computer-assisted pedicle screw placement. A prospective CT analysis.

**Rampersaud YR:** The Canadian Spine Society, Vernon, British Columbia, March 2002. Clinical accuracy of fluoroscopic computer-assisted pedicle screw placement. A prospective CT analysis.

**Rampersaud YR:** Pedicle Fixation in the Thoracic Spine, Medtronic, Half Moon Bay, California, October 2001. FluroNav assisted thoracic screw placement and clinical results in trauma/tumor surgery.

**Rampersaud YR:** Fourteenth Annual Ski with the Spine Center, Whistler, British Columbia, January 2002. Posterior surgical management of cervical myelopathy.

**Rampersaud YR:** The Canadian Spine Society, Vernon, British Columbia, March 2002. Symposium-Imaging of the Spine.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

Biofilm formation in orthopaedic implants. *von Schroeder HP: Zimmer of Canada* (\$10,000 2002).

Course of Osteoarthritis - Three pilot studies to develop tools to measure the trajectory of functional decline. *Badley E, Hawker G, Fortin P, Wright J, Mahomed N, Abrahamowicz M, Clarke A, Coyte P, Cibere J, Gignac M, Poole R, Davis A, Penrod J: Canadian Arthritis network* (\$236,558 2001).

Determinants and outcomes of revision total knee arthroplasty. *Mahomed N, Myerthall S, Davey JR, Gross A, Koo M: Canadian Orthopaedic Foundation* (\$10,000 1999 - 2001).

Determining the validity and reliability of commonly used knee scoring systems. *Mahomed N, Schemitsch E, Davey JR, Waddell JP: Division of Orthopaedic Surgery, Dept of Surgery, University of Toronto* (\$10,000 2002 - 2003).

Efficacy and safety of Tranexamic acid for reducing allogenic blood exposure in total knee arthroplasty. A pilot project for a multicentre randomized controlled clinical trial. *Karkouti K, Mahomed N: Anemia Institute for Research & Education* (\$30,000 2001 - 2002).

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).

Evaluation of commonly used hip rating systems. *Mahomed N, Lau J, Koo M, Davey JR, Waddell JP, Schemitsch E, Davis A: Canadian Orthopaedic Foundation* (\$9,642 2001 - 2002).

Examining the relationship between evidence-based practice and physician and patient opinion. *Wright JG, Hawker G, Coyte P, Mahomed NN, Kreder H: Medical Research Council of Canada* (\$56,239 1999 - 2002).

Feasibility study for a randomized controlled trial of standardized arthroscopic debridement protocol vs total knee arthroplasty for advanced knee osteoarthritis. *Mahomed NN, Carette S, Davey JR, Waddell JP, Schemitsch E, Kreder H: Canadian Orthopaedic Foundation* (\$10,329 2001 - 2002).

Lateral epicondylitis: Prospective assessment of two therapeutic modalities. *von Schroeder, HP, Chapelle, S: Ontario College of Massage Therapists* (\$30,000 2001 - 2004).

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).

Osteoblast biology. *von Schroeder, HP: The Toronto Hospital* (\$50,000 1998 - 2001).

Pilot study for a randomized controlled trial of standardized arthroscopic debridement protocol (SADP) versus total knee arthroplasty (TKA) for advanced knee osteoarthritis. *NN Mahomed, JR Davey S Carette JP Waddell E Schemitsch: University of Toronto, Division of Orthopaedic Surgery Research Committee* (\$10,000 2001 - 2002).

Predictors of disability outcomes following revision total knee arthroplasty. *Davis A, Mahomed N, Davey R, Schemitsch E, Grabuz D, Sczali J, Gignac M, Waddell J, Gross A, MacDonald S, Sekundiak T: Canadian Institutes for Health Research* (\$195,000 2001 - 2004).

Predictors of outcome following revision total hip arthroplasty. *Davis A, Gross AE, Badley E, Hutchison C, Kreder HJ, Gollish J, Saleh K, Schemitsch E, Szalai JP, Davey JR: The Arthritis Society* (\$196,983 1998 - 2001).

Randomized controlled trial of inpatient vs home based rehabilitation following primary total joint arthroplasty (a One year follow-up). *Mahomed NN, Wright J, Hawker G, Badley L, Davis A Coyte P, Naglie G, Fried S, Jaglal S, Kreder HJ: Physicians Services Incorporated* (\$42,000 2001 - 2002).

Randomized controlled trial of three bearing surfaces in primary total hip arthroplasty of patients under the age of 65. *Mahomed N, Waddell JP: Supported by Smith and Nephew Canada* (\$50,000 2001 - 2002).

Randomized multicentre study of NexGen LPS - Flex knee. *Mahomed NN, Davey JR: Zimmer Cannada* (\$25,000 2002).

The effect of hospital and surgeon procedure volume on the outcomes of primary and revision total knee replacement: Magnitude and mechanisms. *Katz JN, Baron J, Mahomed NN, Liang M, Barrett J, Guadiganoli E, Daltroy L: National Institutes of Health* (\$1,500,000 2001 - 2006).

The efficacy of two modalities - intravenous iron and recombinant erythropoietin for the treatment of profound postoperative anemia. *Karkouti K, Quirt I, McCluskey S, Rampersaud R, Yau T: PSI* (\$99,500 2001 - 2003).

Understanding early OA. *Gignac M, Davis A, Badley E, Hawker G, Mahomed N: Canadian Arthritis Network* (\$20,484 2002 - 2003).

Validity and reliability study of OA biomarkers. *Fortin P, Cibere J, Hawker G, Mahomed N, Abrahamowicz, Poole R: Canadian Arthritis Network* (\$20,484 2002 - 2003).

## **DIVISION OF PLASTIC SURGERY**

**Dr. D.J. Anastakis - Assistant Professor**  
**Dr. T.A.B. Bell - Lecturer**  
**Dr. P. Bray - Assistant Professor**  
**Dr. A. Freiberg – Professor**  
**Dr. B. Graham – Assistant Professor**  
**Dr. J.E. Lipa - Assistant Professor**  
**Dr. R.T. Manktelow - Professor**  
**Dr. P.C. Neligan - Associate Professor (Division Head)**  
**Dr. H.P. von Schroeder - Assistant Professor**

## **PUBLICATIONS**

**Black CE, Huang H, Neligan PC, Levine RE, Lipa JE, Lintlop S, Forrest CR, Pang CY:** Effect of nicotine on vasoconstrictor and vasodilator responses in human skin vasculature. *American Journal of Physiology*: September 2001: 281(4): pp R1097-104.

**Chan VWS, Peng PWH, Kaszas Z, Middleton WJ, Muni R, Anastakis, DJ, Graham BA:** A comparative study of general anesthesia, intravenous regional anesthesia and axillary block for outpatient hand surgery - clinical outcome and cost analysis. *Anesthesia and Analgesia*: November 2001: 93(5): pp 1181-1184.

**Elias D, Lax M, Anastakis DJ:** Musculoskeletal images: Ganglion cyst of Guyon's canal causing ulnar nerve compression. *Canadian Journal of Surgery*: October 2001: 44(5): pp 331-332.

**Forrest CR, O'Donovan DA, Yeung I, Zeman V, La Scala G, Neligan PC, Pang CY:** Efficacy of radioprotection in the prevention of radiation-induced craniofacial bone growth inhibition. *Plastic and Reconstructive Surgery*: April 2002: 109: pp 1311-1323.

**Jugenburg M, Hubley P, Yandell H, Manktelow RT, Zuker RM:** Self esteem in children with facial paralysis: a review of measures. *The Canadian Journal of Plastic Surgery* 2001: August 2001: 9 No 4: pp 143-146.

**Khoo M, Soo K, Gullane PJ, Neligan PC, Hong S, Lee JCY, Siow J:** Resurfacing of the nasopharynx after nasopharyngectomy using a free radial forearm flap. *Head & Neck*: October 2001: 23: pp 916-922.

**LaScala GC, Shenker RL, Addison PD, Zhong A, Pang CY, Neligan PC, Forrest CR:** Modification of the radioactive microsphere technique for assessment of regional blood flow to the craniofacial skeleton in the New Zealand rabbit. *Canadian Journal of Plastic Surgery*: February 2002: 10: pp 15 - 19.

**Lipa JE, Chang DW:** The lateral thoracic artery as a vascular variant in the supply to the free serratus anterior flap. *Journal of Reconstructive Microsurgery*: September 2001: 17(6): pp 413-5.

**Neligan PC:** Discussion: The outcome of failed free flaps in head and neck and extremity reconstruction: What is next in the reconstructive ladder? *Plastic and Reconstructive Surgery*: October 2001: 108: pp 1163-64.

**Neligan PC:** Turfing our turf. *Plastic and Reconstructive Surgery*: October 2001: 108: pp 1428.

**O'Donovan D, Lescala G, Yeung I, Zeman V, Mendes M, Leong I, Pritzker KPH, Pang CY, Neligan PC, Forrest CR:** Development of Cytoprotective Strategies for the Prevention of Radiation Induced Craniofacial Bone Growth Inhibition in an Infant Rabbit Model. *Craniofacial Surgery* (Claes G.K. Lauritzen, ed). Monduzzi M Editore, Italy: 2001: pp 101-103.

**O'Donovan DA, Yeung I, Zeman V, Neligan PC, Pang CY, Forrest CR:** Radiation-induced craniofacial bone growth inhibition: Development of an animal model. *J Craniofacial Surg*: November 2001: 12: pp 533-543.

**Sun TB, Neligan PC, Gullane PJ, O'Leary G:** Microvascular free tissue transfer for head and neck reconstruction in transplant recipients. In: *Reconstructive Microsurgery* (Fu-Chan Wei, David CC Chuang, Hung-Chi Chen, eds): 2001: pp 159-162.

**Wanzel KR, Hamstra S, Anastakis DJ, Matsumoto E, Cusimano M:** Effect of visual-spatial ability on learning of spatially-complex surgical skills. *Lancet*: January 2002: 359(9302): pp 230 - 231.

**Wanzel KR, Matsumoto ED, Hamstra SJ, Anastakis, DJ:** Teaching technical skills: training on a simple, inexpensive and portable model. *Plastic Reconstructive Surgery*: January 2002: 109 (1): pp 258 - 263.

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

**Anastakis DJ:** Canadian Society of Plastic Surgeons, Saint John, New Brunswick, June 2002. Cortical plasticity following upper extremity trauma and reconstruction.

**Anastakis DJ:** University of Vienna, Department of Plastic and Reconstructive Surgery, Vienna, Austria, March 2002. Cortical plasticity following upper extremity trauma and reconstruction.

**Anastakis DJ:** The Credit Valley Hospital, Mississauga, Ontario, October 2001. Critical decision making in the emergency department. Annual Emergency Medicine Conference. Hand injuries - optimal management.

**Lipa JE:** Division of Plastic Surgery, Toronto General Hospital, Toronto, Ontario, March 2002. Microvascular free tissue transfer in elderly patients: The Toronto experience.

**Manktelow RT:** Mount Sinai/University of Iowa, Multidisciplinary course on the contemporary management of head and neck tumors, New York, New York, March 2002. Gracilis muscle flap.

**Manktelow RT:** Societe suisse d'oto-rhino-laryngologie et de chirurgie cervico-faciale, Pontresina, Switzerland, June 2002. Indications, technique and results of facial reanimation after VIIth nerve palsy.

**Manktelow RT:** Mount Sinai/University of Iowa multidisciplinary course on the contemporary management of head and neck tumors, New York, New York, March 2002. Management of acquired facial paralysis.

**Manktelow RT:** Mount Sinai/University of Iowa multidisciplinary course on the contemporary management of head and neck tumors, New York, New York, March 2002. Management of congenital facial paralysis.

**Manktelow RT:** Inaugural congress of the world society for reconstructive microsurgery, Taipei, Taiwan, November 2001. Moderator for live surgical demonstrations.

**Neligan PC:** Canadian Society of Plastic Surgeons, Saint John, New Brunswick, June 2002. 1. Preconditioning of the porcine latissimus dorsi muscle flap against ischemic necrosis can be achieved by brief, remote, hind limb ischemia 2. Use of albumen in reconstructive surgery is safe.

**Neligan PC:** British Virgin Islands Workshop in Plastic Surgery, Tortola, British Virgin Islands, January 2002. 1. Reconstruction of the hemilarynx. 2. Use of streptokinase in free flap salvage.

**Neligan PC:** Singapore Association of Plastic Surgeons, Singapore, Malaysia January 2002. 1. The iliac crest in head and neck reconstruction. 2. Flap physiology.

**Neligan PC:** 11th Annual ASEAN Plastic Surgery Congress, Singapore, Malaysia, January 2002. 1. Use of the iliac crest in head and neck reconstruction. 2. Flap physiology.

**Neligan PC:** Canadian Society of Plastic Surgeons, Saint John, New Brunswick, June 2002. 1. DIEP flaps in head and neck reconstruction 2. Salvage of failing free tissue transfers with thrombolytics: A review of 20 cases 3. Melanoma of the head & neck: Surgical management and sentinel lymph node biopsy issues 4. Free flaps in chemotherapy patients 5. Functional outcomes of the foot and ankle following free fibular flaps 6. Hemodynamic and histopathologic investigation of the mechanism of radiation-induced craniofacial bone growth inhibition with and without cytoprotection in the infant New Zealand rabbit orbito-zygomatic complex (OZC) 7. Learning curves in microvascular breast reconstruction: Perforator flaps and the internal mammary vessels.

**Neligan PC:** Canadian Society of Plastic Surgeons, Saint John, New Brunswick, June 2002. Co-Chairman: Session VI.

**Neligan PC:** Graduate School of Medical Studies, National University of Singapore, Singapore, Malaysia August 2001. External Assessor: Exit certification in plastic surgery.

**Neligan PC:** American Society of Plastic Surgeons, Orlando, Florida, October 2001. Instructional Course: Lip reconstruction following tumor ablation.

**Neligan PC:** American Society for Reconstructive Microsurgery, Cancun, Mexico, January 2002. Instructional Course: Microsurgical Management of Craniofacial Problems.

**Neligan PC:** Tsu-Chi Hospital, Hualien, Republic of China, October 2001. Lecture: Advances in microvascular reconstruction.

**Neligan PC:** World Society of Reconstructive Microsurgery, Taipei, Taiwan, October 2001. Management of complex head and neck reconstructions.

**Neligan PC:** World Society of Reconstructive Microsurgery, Taipei, Taiwan, October 2001. Moderator: Head and neck reconstruction.

**Neligan PC:** American Society for Reconstructive Microsurgery, Cancun, Mexico, January 2002. Moderator: Scientific Paper Session B, Head and Neck.

**Neligan PC:** Canadian Society of Plastic Surgeons, Saint John, New Brunswick, June 2002. Panelist: Problem cases with microsurgical reconstruction.

**Neligan PC:** Singapore Association of Plastic Surgeons, Singapore, Malaysia, August 2001. Quarterly Meeting: The Toronto training program and scope of aesthetic training in plastic surgery.

**Neligan PC:** 14th Annual BVI Symposium, Tortola, British Virgin Islands, January 2002. Reconstruction of the larynx.

**Neligan PC:** The Triological Society - 2002 Meeting, Philadelphia, Pennsylvania, January 2002. The free temporoparietal flap for cricoid reconstruction in patients with chondrosarcoma of the larynx.

**Neligan PC:** The Israeli Society of Plastic & Aesthetic Surgery, Tel Aviv, Israel, November 2001. The free vascularized flap and the flap-plate options: Comparative results of lateral mandibular defect reconstruction.

**Neligan PC:** 14th Annual BVI Symposium, Tortola, British Virgin Islands, January 2002. The use of thrombolytics in free flap salvage.

**Neligan PC:** HMDP (Health Manpower Development Program) Ministry of Health, Singapore, Malaysia, August 2001. Visiting Expert: Lecture I: Strategies in the management of head and neck cancer patients Lecture II: Reconstruction of the mandible in head and neck cancer patients Lecture III: Maxillary and skull base resection and reconstructive options Lecture IV: Horizons of research in plastic surgery - Toronto Perspective Lecture V: Breast reconstruction - Toronto experience Lecture VI: Reconstructive options in burn injuries Lecture VII: Advances in reconstructive microsurgery.

**Neligan PC:** Tsu-Chi Hospital, Hualien, People's Republic of China, October 2001. Visiting Professor.

**Neligan PC:** Providence Hospital, Southfield, Michigan, May 2002. Visiting Professor: 1. Lecture: Avoiding complications in reconstructive surgery. 2. Lecture: Research and surgical practice: making dead men walk. 3. Kapetansky Lecture: Microsurgery for the new millennium.

**Rampersaud YR:** The Canadian Spine Society, Vernon, British Columbia, March 2002. Blood conservation in elective spinal surgery.

**Rampersaud YR:** 2nd Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery, Santa Fe, New Mexico, June 2002. Clinical accuracy of fluoroscopic computer-assisted pedicle screw placement. A prospective CT analysis.



**Rampersaud YR:** Joint Section of the Disorders of the Spine, Orlando, Florida, February 2002. Clinical accuracy of fluoroscopic computer-assisted pedicle screw placement. A prospective CT analysis.

**Rampersaud YR:** The Canadian Spine Society, Vernon, British Columbia, March 2002. Clinical accuracy of fluoroscopic computer-assisted pedicle screw placement. A prospective CT analysis.

**Rampersaud YR:** Pedicle Fixation in the Thoracic Spine, Medtronic, Half Moon Bay, California, October 2001. FluroNav assisted thoracic screw placement and clinical results in trauma/tumor surgery.

**Rampersaud YR:** Fourteenth Annual Ski with the Spine Center, Whistler, British Columbia, January 2002. Posterior surgical management of cervical myelopathy.

**Rampersaud YR:** The Canadian Spine Society, Vernon, British Columbia, March 2002. Symposium-Imaging of the Spine.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

Biofilm formation in orthopaedic implants. *von Schroeder HP: Zimmer of Canada* (\$10,000 2002).

Cortical plasticity following thumb amputation, toe transfer and rehabilitation. *Anastakis DJ, Mikulis D, Chen R, Davis K, Chang M: American Association for Hand Surgery* (\$3,000 2002 - 2003).

Determinants of superior performance on spatially complex surgical procedures. *Anastakis DJ, Wanzel KR, Hamstra SJ, Caminiti MF, Reznick RK: Physician's Services Incorporated Foundation - Resident Research* (\$19,734 2002).

Determinants of treatment outcomes in work related carpal tunnel syndrome. *RT Manktelow, P Binhammer, V Brill, JP Szalai, L Tomat: Workplace Safety & Insurance Board* (\$205,025 1999 - 2001).

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).

Investigation of histopathophysiology and pharmacologic intervention of radiation-induced craniofacial bone growth retardation. *Neligan PC, Forrest C, Pang CY: The Hospital for Sick Children Foundation* (\$127,025 2000 - 2002).

Lateral epicondylitis: Prospective assessment of two therapeutic modalities. *von Schroeder, HP, Chapelle, S: Ontario College of Massage Therapists* (\$30,000 2001 - 2004).

Mechanism of action of VEGF in augmentation of skin flap viability. *Neligan PC, Pang CY, Addison P: Plastic Surgery Educational Foundation* (\$5,000 2001 - 2002).

Needs assessment and development of an educational tool for reconstructive breast surgery. *Wanzel KR, Brown MH, Anastakis DJ, Regehr G: Mentor Medical Supplies* (\$5,000 2001 - 2002).

Needs assessment and development of an educational tool for reconstructive breast surgery. *Wanzel KR, Brown MH, Anastakis DJ, Regehr G: CE Research and Development Grant, University of Toronto* (\$3,919 2001 - 2002).

Osteoblast biology. *von Schroeder, HP: The Toronto Hospital* (\$50,000 1998 - 2001).

Qualitative measures across peripheral nerve lesions using the DASH and SF-36. *Asaria J, Anastakis DJ: The Toronto Hospital Research Institute. University of Toronto, Faculty of Medicine* (\$4,000 2002).

Skin flap ischemia: Pathophysiology and pharmacological intervention. *Cho Y Pang, Peter C. Neligan: CIHR* (\$402,800 2001 - 2006).

Specification of visual-spatial abilities relevant to surgical training. *Hamstra SJ, Anastakis DJ, Caminiti MF, Cusimano MD, Matsumoto ED: Physician's Services Incorporated Foundation* (\$24,000 2000 - 2001).

## **HONOURS RECEIVED**

**Anastakis DJ:** DeToro Award for Best Research Paper, Tau Omicron Visiting Professor. “Visual-spatial ability can predict hand motion and performance on a surgical procedure”. Award received by Graduate Student, Dr. Kyle Wanzel, April 2002.

**Anastakis DJ:** Haemonetics Best Paper Award, 22nd Annual Meeting of the ASE. Baltimore, MD. “Evaluating the effectiveness of a two-year curriculum in a surgical skills centre”, April 2002.

**Anastakis DJ:** Ross Fleming Surgical Educator Award for Excellence in Surgical Education. University Health Network, May 2002.

**Anastakis DJ:** W. K. Lindsay Research Supervisor Award. University of Toronto. Division of Plastic Surgery, April 2002.

## DIVISION OF THORACIC SURGERY

**Dr. G.E. Darling** - Associate Professor  
**Dr. R.J. Ginsberg** - Professor (Division Head)  
**Dr. M.R. Johnston** - Associate Professor  
**Dr. S. Keshavjee** - Professor  
**Dr. M. Liu** - Associate Professor  
**Dr. M.F. McKneally** - Professor  
**Dr. T.K. Waddell** - Assistant Professor

## PUBLICATIONS

**Chart P, Franssen E, Darling G, Macphail J, Tipping J, Poldre P, Taylor G:** Breast disease and undergraduate medical education: a randomized trial to assess the effect of a home study module on medical student performance. *Journal of Cancer Education*: October 2001; 16 (3)129-: pp 129-33.

**Darling G, Chart P, Franssen E, MacPhail J, Tipping J, Poldre P:** Breast Disease and Undergraduate Medical Education: A randomized trial to assess the effect of a home study module on medical student performance. In: *Journal of Cancer Education* (Richard F. Bakemeier, ed). Hanley and Belfus Inc., Philadelphia: 2001: pp 129-133.

**de Perrot M, Fischer S, Liu M, Jin R, Bai X-H, Waddell TK, Keshavjee S:** Prostaglandin E1 protects lung transplants from ischemia-reperfusion injury: a shift from pro- to anti-inflammatory cytokines. *Transplantation*: November 2001; 72: pp 1509-1512.

**de Perrot M, Sekine Y, Fischer S, Waddell TK, McRae K, Liu M, Wigle D, Keshavjee S:** Interleukin-8 release during early reperfusion predicts grafts function in human lung transplantation. *American Journal of Respiratory and Critical Care Medicine*: January 2002; 165: pp 211-215.

**de Perrot M, Tabata T, Keshavjee S, Liu M, Downey GP, Waddell TK:** A simplified model for en-bloc double lung xenotransplantation from hamster to rat. *Journal of Heart Lung Transplantation*: February 2002; 21(2): pp 286-289.

**Fischer S, dePerrot M, Sekine Y, Keshavjee S:** Long-term survival after multiple resections of fibrosarcoma involving the lung and chest wall. *European Journal of Cardiothoracic Surgery*: July 2001; 20(2): pp 421-423.

**Fischer S, Hopkinson D, Liu M, MacLean AA, Edwards V, Cutz E, Keshavjee S:** Raffinose improves 24-hour lung preservation in low potassium dextran glucose solution: a histologic and ultrastructural analysis. *Annals of Thoracic Surgery*: September 2001; 71: pp 1140-1145.

**Fischer S, Kruger M, McRae K, Merchant N, Tsao MS, Keshavjee S:** Giant bronchial carcinoid tumors: A multidisciplinary approach. *Annals of Thoracic Surgery*: October 2001; 71: pp 386-393.

**Fischer S, Liu M, MacLean A, de Perrot M, Ho M, Cardella J, Zhang X, Bai X, Suga M, Imai Y, Keshavjee S:** In Vivo Trans-tracheal adenoviral-mediated transfer of human interleukin-10 gene to donor lungs ameliorates ischemia-reperfusion injury and improves post-transplant graft function in the rat. *Human Gene Therapy*: July 2001; 12(12): pp 1513-1526.

**Fischer S, Matte-Martyn A, dePerrot M, Waddell TK, Sekine Y, Hutcheon M, Keshavjee S:** Low potassium dextran preservation solution improves lung function after human lung transplantation. *Journal of Thoracic and Cardiovascular Surgery*: October 2001; 121(3): pp 594-596.

**Ginsberg RJ:** Early detected lung cancer: Finding an appropriate treatment. *Canadian Journal of CME*: November 2001; 13: pp 167-171.

**Ginsberg RJ:** Role of surgery in the treatment of stage I and II lung cancer. *American Society of Clinical Oncology 2002 Educational Book* (ASCO, ed). Lippincott, Wilkins and Williams, Baltimore: 2002: pp 460-464.

**Madill J, Gutierrez C, Grossman J, Allard J, Chan C, Hutcheon M, Keshavjee SH:** Nutritional assessment of the lung transplant patient: body mass index as a predictor of 90 day mortality following transplantation. *Journal of Heart Lung Transplantation*: November 2001; 20(3): pp 288-296.

**Martin J, Ginsberg RJ, Bains M, Downey RJ et al:** Morbidity and mortality after neoadjuvant therapy for lung cancer: The risks of right pneumonectomy. *Annals of Thoracic Surgery*: October 2001; 72: pp 1149-1154.

**Martin J, Ginsberg RJ, Ennapadam S, Venkatraman, Bains M, Downey RJ et al:** Long-term results of combined-modality therapy in resectable non-small-cell lung cancer. *Journal of Clinical Oncology*: April 2002; 20: pp 1989-1995.

**McKneally MF:** Controversies in Cardiothoracic Surgery: Is it ethical to advertise surgical results? *Journal of Thoracic and Cardiovascular Surgery*: May 2002; 123: pp 839-41.

**Minsky BD, Pajak TF, Ginsberg RJ, Pisansky TM et al:** INT 0123 (radiation therapy oncology group 94-05) phase III trial of combined-modality therapy for esophageal cancer: High dose versus standard-dose radiation therapy. *Journal of Clinical Oncology*: March 2002; 20 (5): pp 1167-1174.

**O'Blenes S, Fischer S, McIntyre B, Keshavjee S, Rabinovitch M:** Hemodynamic unloading leads to regression of pulmonary vascular disease in rats. *Journal of Thoracic and Cardiovascular Surgery*: October 2001; 121: pp 279-289.

**Pierre AF, Sekine Y, Hutcheon M, Waddell TK, Keshavjee SH:** Marginal donor lungs: A re-assessment. *Journal of Thoracic and Cardiovascular Surgery*: March 2002; 123: pp 421-427.

**Port JL, Ginsberg RJ:** Surgery for thymoma. *Chest Surgery Clinics of North America*: July 2001: pp 421-437.

**Rusch VW, Rosenzweig K, Venkatraman E, Ginsberg RJ et al:** A phase II trial of surgical resection and adjuvant high-dose hemithoracic radiation for malignant pleural mesothelioma. *Journal of Thoracic and Cardiovascular Surgery*: October 2001; 122: pp 788-795.

**Sade RM, McKneally MF:** Responsibilities of investigators. *Annals of Thoracic Surgery*: April 2002; 73: pp 1364-5.

**Sade RM, McKneally MF:** Responsibilities of investigators. *Journal of Thoracic and Cardiovascular Surgery*: May 2002; 123: pp 837-9.

**Slinger PD, Johnston MR:** Preoperative assessment for pulmonary resection. In: *Thoracic anaesthesia* (Slinger PD, Benumof J, eds). W.B. Saunders Company, Philadelphia: 2001: pp 411-434.

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

**Darling GE:** Ontario Respiratory Residents' Symposium, Niagara, Ontario, April 2002. *Pleural Space Problems: A Surgeon's Perspective*.

**Ginsberg RJ:** American Society for Therapeutic Radiology and Oncology, San Francisco, California, November 2001. *Controversies in Radiation Oncology*.

**Ginsberg RJ:** Craighead Lecturer, Section of Cardiothoracic Surgery, Louisiana State University, New Orleans, Louisiana, May 2002. *Controversies in the Surgical Management of Early Stage Cancer*.

**Ginsberg RJ:** American Association of Thoracic Surgeons Meeting, Washington, District of Columbia, May 2002. Debater: Resection for T4 Lung Cancers: The Risks Outweigh the Benefits.

**Ginsberg RJ:** American Association for Thoracic Surgery, Washington, District of Columbia, May 2002. Discussant: Accelerated Induction Chemotherapy Provides Enhanced Survival in Both Stage IIIA and IIIB Non-Small Cell Lung Cancer.

**Ginsberg RJ:** Astra Zeneca, Philadelphia, Pennsylvania, February 2002. IRESSA Non-Small Cell Lung Cancer Advisory Board.

**Ginsberg RJ:** Joint Meeting of Royal College of Surgeons of Thailand and Royal College of Surgeons of Edinburgh, Pattaya, Chonburi, Thailand, July 2001. Management of Ca Lung; Surgical Management of Metastatic Pulmonary Nodule; Surgery for Advanced Stage Ca Lung; Management of Malignant Mediastinal Tumor.

**Ginsberg RJ:** American Society of Clinical Oncology, Orlando, Florida, May 2002. Role of Surgery in the Treatment of Stage I and II Lung Cancer (published in 2002 ASCO Spring Education Book).

**Ginsberg RJ:** American Association of Thoracic Surgery, Washington, District of Columbia, May 2002. Surgical Approaches to the Superior Sulcus Lesion.

**Ginsberg RJ:** COMET 2002 meeting, Gravenhurst, Ontario, June 2002. Surgical Treatment of Lung Cancer.

**Ginsberg RJ:** Southeastern Wisconsin Cancer Conference, Milwaukee, Wisconsin, March 2002. Surgical Treatment of Lung Cancer.

**Ginsberg RJ:** Tri State Thoracic Conference, Egg Harbour, Wisconsin, September 2001. The Early Diagnosed Lung Cancer.

**Ginsberg RJ:** American Society of Clinical Oncology Annual Meeting 2002, Orlando, Florida, May 2002. The Management of Early Lung Cancer - What Disciplines and When?

**Ginsberg RJ:** American College of Surgeons, New Orleans, Louisiana, October 2001. Training of the General Thoracic Surgeon in Canada.

**Johnston MR:** Colorado State University, Cell Molecular Biology Graduate Program, Fort Collins, Colorado, February 2002. Pre-clinical model systems for the study of lung cancer.

**Johnston MR:** 4th Pan Arab Cancer Congress, Qatar, Saudi Arabia, March 2002. Surgical Management of Lung Cancer.

**Johnston MR:** GlaxoSmithKline Biologicals, Brussels, Belgium, August 2001. MAGE-3 non small cell lung cancer advisory board.

**Keshavjee S:** American Heart Association, Anaheim, California, November 2001. Gene transfer to the lung.

**Keshavjee S:** Controversies in perioperative medicine, Provence, France, September 2001. Management of the multiorgan donor in the intensive care unit and the operating room.

**Keshavjee S:** North American Cystic Fibrosis Meeting, Orlando, Florida, October 2001. Symposium on lung transplantation, lung transplantation for cystic fibrosis.

**Keshavjee S:** American College of Surgeons Congress, New Orleans, Louisiana, October 2001. Current status of lung transplantations. Thoracic Surgery Postgraduate Course.

**Keshavjee S:** Organ Donor Coordinators of Ontario Annual Meeting, Toronto, Ontario, October 2001. Update in lung transplantation.

**Keshavjee S:** Organ Donor Coordinators of Ontario Annual Meeting, Toronto, Ontario, October 2001. Would you use this donor lung?

**Keshavjee S:** Organ Donor Coordinators of Ontario Annual Meeting, Toronto, Ontario, October 2001. Evaluation of extended donor and recipient criteria for lung transplantation.

**Keshavjee S:** 12<sup>th</sup> Annual Day in Transplantation, University of Toronto, Toronto, Ontario, November 2001. Gene therapy for transplantation.

**Keshavjee S:** Canadian Transplant Forum, Montego Bay, Jamaica, January 2002. Strategies to extend the lung donor pool: living donors and extended donors.

**Keshavjee S:** Canadian Association for Transplantation, Mt. Tremblant, Quebec, March 2002. Assessment of the lung donor.

**Keshavjee S:** International Society for Heart and Lung Transplantation, Washington D.C., April 2002. Interventions and strategies to optimize the use of currently available lung donors.

**Keshavjee S:** Southern Ontario Gene Therapy Meeting, Cambridge, Ontario, April 2002. Gene therapeutic modulation of inflammatory and immune responses in lung transplantation.

**Keshavjee S:** Regional critical care rounds, McMaster University, Hamilton, Ontario, April 2002. Management of the multi-organ donor in the intensive care unit.

**Keshavjee S:** American Association for Thoracic Surgery Annual Meeting, Postgraduate Course, Washington, District of Columbia, May 2002. Surgical management of myasthenia gravis.

**McKneally MF:** MacLean Center for Bioethics, University of Chicago, Chicago, Illinois, November 2001. An entrustment model of consent.

**McKneally MF:** Harvard University Kennedy School of Government Health Policy Course, Boston, Massachusetts, November 2001. Innovation in Health Care: The Shouldice Clinic.

**McKneally MF:** Harvard University Kennedy School of Government Skills for the New World of Health Care Course, Boston, Massachusetts, May 2002. The Focused Hospital: Lessons from the Shouldice Hospital.

**McKneally MF:** Society of Cardiovascular Anesthesiologists, 7th Annual Update on Cardiopulmonary Bypass, Snowmass, Colorado, March 2002. The role of teamwork in patient safety.

**Waddell TK:** Canadian Association for Thoracic Surgery, Quebec City, Quebec, September 2001. Evidence-based Emphysema Surgery.

**Waddell TK:** International Society for Heart and Lung Transplantation, Washington, District of Columbia, April 2002. Feasibility of a lung donor score.

**Waddell TK:** University of British Columbia Immunology and Infection Seminar Series, Vancouver, British Columbia, October 2001. L-selectin modulation of chemokine receptors.

**Waddell TK:** American Association for Thoracic Surgery, Washington, District of Columbia, May 2002. Pulmonary xenotransplantation.

## **RESEARCH AND INVESTIGATIONS**

*Senior Investigator's Name Appears in Italics*

A Phase I study to evaluate the safety and efficacy of the Broncus Exhale system in patients with emphysema. *Thomas K. Waddell, Shaf Keshavjee: Broncus Technologies Inc (\$113,590 2001 - 2003).*

A randomized double-blind placebo-controlled study comparing basiliximab plus standard triple immunosuppression to standard triple immunosuppression alone for the prevention of acute rejection and bronchiolitis syndrome in bilateral lung and single lung transplant patients. *Thomas K. Waddell, Shaf Keshavjee, Cecilia Chapparo: Novartis Canada Inc (\$120,000 2002 - 2003).*

A Randomized, Double Blind, Placebo Controlled, Multi-Center Study of Simulect for the Prevention of Acute Rejection and Bronchiolitis Obliterans Syndrome Lung Transplant Patients. *Waddell T, Keshavjee S, Chaparro C, Hutcheon M: Novartis (\$1,300,000 2001 - 2003).*

Cellular and molecular mechanisms of ventilation-induced acute lung injury. *Liu M: Medical Research Council of Canada (\$240,000 1998 - 2001).*

CF transplant centre grant. *S Keshavjee, M Hutcheon, The Toronto Lung Transplant Program: Canadian Cystic Fibrosis Foundation* (\$75,337 2001 - 2002).

Development of an experimental model simulating the post-operative status of patients with resected stage I-II non small cell lung cancer. *Johnston MR: Kinetek Pharmaceuticals Inc* (\$71,750 2001 - 2002).

Early detection of second primary lung cancers by sputum cytology immunostaining (Toronto Group). *Johnston MR, Bayer Corporation, Lung Cancer Early Detection Working Group: Bayer Corporation* (\$150,000 1998 - 2001).

Gene expression in xenograft accommodation. *Waddell TK: Physician Services Incorporated Foundation* (\$123,321 2001 - 2003).

Gene therapeutic applications in transplant related acute lung injury. *Keshavjee S: Canadian Institutes of Health Research* (\$268,413 2000 - 2003).

Leukocyte-endothelial interactions in xenotransplantation. *Waddell TK: American Association for Thoracic Surgery, Second Alfred Blalock Research Scholarship* (\$165,000 2000 - 2002).

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).

Novel biomarkers and screening strategies in early lung detection of lung cancer. *Tsao, MS, Minden M, Banerjee D, Johnston MR, Shepherd F: Clinical Impact Team, University Health Network 04/03* (\$300,000 2000 - 2003).

Nutritional factors and gene-environment interactions in the etiology of adenocarcinoma of the esophagus. *N. Birkett, D. Maziak, D. Labuda, D. Sinnett, G. Darling, R. Incullet, M. Guindi, g. McKeown-Eyssen, C. Ambrosone, A. Casson: Cancer Research Society* (\$300,000 2000 - 2003).

Phase III chemoprevention trial of selenium supplementation in persons with resected stage I non-small cell lung cancer. *Johnston MR, University of Toronto Group: Eastern Cooperative Oncology Group* (\$64,000 2001 - 2002).

Protective effect of adenoviral-mediated IL-10 gene transfer on allograft transplant-induced airway lesions. *Keshavjee S, Liu M: Canadian Cystic Fibrosis Foundation* (\$200,000 1999 - 2002).

Role of cytoskeleton in cytokine production from lung alveolar epithelial cells. *Liu M: Canadian Institutes of Health Research* (\$190,000 2000 - 2003).

The role of Bcl-2 family proteins in TNF-mediated NF-KB activation. *Waddell TK: The Thoracic Surgery Foundation for Research and Education* (\$90,000 2000 - 2002).

Xenotransplantation. *Waddell TK: Canadian Foundation for Innovation, New Opportunities Grant* (\$150,000 2000 - 2003).

**HONOURS RECEIVED**

**Darling GE:** Nominated for W. J. Aikins, November 2001.

**Darling GE:** Wightman Berris Academy Teaching Award, June 2002.

**Ginsberg RJ:** Robert J. Ginsberg Award for Excellence in Postgraduate Teaching, June 2002.

**Waddell TK:** Roscoe Reid Graham Scholarship, July 2001.

**Waddell TK:** Wight-Berris Individual Teaching Award, June 2002.

## DIVISION OF UROLOGY

**Dr. M.M. Hassouna - Associate Professor**

**Dr. M.A.S. Jewett - Professor (Division Head)**

**Dr. S.B. Radomski - Associate Professor**

**Dr. M. Robinette - Associate Professor**

**Dr. J. Trachtenberg - Professor**

**Dr. J. Tsihlias - Assistant Professor**

## PUBLICATIONS

**Al-Maghrabi J, Vorobyova L, Chapman W, Jewett M, Zielenska M, Squire JA:** p53 Alteration and chromosomal instability in prostatic high-grade intraepithelial neoplasia and concurrent carcinoma: Analysis by immunohistochemistry, interphase in situ hybridization and sequencing of laser-captured microdissected specimens. *Modern Pathology*: December 2001; 14: pp 1252-1262.

**Beheshti B, Park PC et al:** Evidence of chromosomal instability in prostate cancer determined by spectral karyotyping (SKY) and interphase fish analysis. *Neoplasia* 2001; September 2001; 3 (1): pp 62-9.

**Crook J, McLean M, Catton C, Yeung I, Tsihlias J, Pintilie M:** Factors influencing risk of acute urinary retention after TRUS-guided permanent prostate seed implantation. *International Journal of Radiation Oncology, Biology, Physics*: February 2002; 52:2: pp 453-460.

**Gleave ME, Goldenberg SL, Chin JL, Warner J, Saad F, Klotz LH, Jewett M, Kassabian V, Chetner M, Dupont C, Van Rensselaer S; The Canadian Uro-Oncology Group:** Randomized comparative study of 3 versus 8-month neoadjuvant hormonal therapy before radical prostatectomy: biochemical and pathological effects. *Journal of Urology*: August 2001; 166: pp 500-506.

**Jewett MAS, Grabowski A, Shekarriz A:** Minimizing morbidity from surgery for non-seminoma testicular cancer. *Proceedings Germ Cell Tumour Conference V*: 2002:

**Jewett MAS:** Editorial Comment: The thoracoabdominal approach for retroperitoneal gland dissection: Its application to testis tumors. *Journal of Urology*: February 2002; 167: pp 927.

**Jewett MAS:** Management options for small renal tumors. *AUA News*: November 2001; 6: pp 1-4.

**Jewett M:** Laparoscopic Prostatectomy: Here to stay. *Canadian Journal of Urology*: June 2002; 9: pp 14-17.

**Larsson P, Beheshti B, Shipman R, Jewett M:** Allelic deletion analysis of multiple bladder tumours. *UroOncology*: August 2001; 1: pp 291-295.

**Larsson PC, Beheshti B, Sampson H, Jewett MA, Shipman R:** Allelic deletion fingerprinting of urine cell sediment in bladder cancer. *Molecular Diagnosis*: September 2001; 6: pp 181-188.

**Matsumoto E, Hamstra S, Radomski SB, Cusimano M:** The effect of bench model fidelity on endourological skills: a randomized controlled study. *Journal of Urology*: March 2002; 167: pp 1243-1247.

**Matsumoto ED, Hamstra SJ, Radomski SB, Cusimano MD:** A novel approach to endourological training: training at the surgical skills centre. *Journal of Urology*: October 2001; 166: pp 1261-1266.

**Matsumoto ED, Kodama RT, Jewett MAS:** The Urology Fair: a residency selection process. *Annals of the Royal College of Physicians and Surgeons*: February 2002; 35: pp 94-96.

**Naglie G, Radomski SB, O'Rourke K, Matthiasen K, Brymer C, Tomlinson G:** A randomized, double-blind, placebo-controlled crossover trial of nimodipine for urge incontinence in older persons. *Journal of Urology*: February 2002; 167: pp 586-590.

**Rendon RA, Gertner MR, Sherar MD, Asch MR, Kachura JR, Sweet J, Jewett MA:** Development of a radiofrequency based thermal therapy technique in an in vivo porcine model for the treatment of small renal masses. *Journal of Urology*: July 2001; 166: pp 292-298.



**Rendon RA, Kachura JR, et. al:** The uncertainty of radio frequency treatment of renal cell carcinoma: findings at immediate and delayed nephrectomy. *Journal of Urology*: April 2002: 167 (4): pp 1587-92.

**Sherar MD, Gertner MR, Yue CKK, Toi A, Gladman AS, O'Malley M, Davidson SRH, Trachtenberg J:** Interstitial Microwave Thermal Therapy for Prostate Cancer: Methods of Treatment and Results of a Phase I/II Trial. *Journal of Urology*: November 2001: 166 (5): pp 1707-1714.

**Sherar MD, Gladman AS, Davidson SR, Trachtenberg J, Gertner MR:** Helical antenna arrays for interstitial microwave thermal therapy for prostate cancer: tissue phantom testing and simulations for treatment. *Physics, Medicine, Biology* 2001: July 2001: 46 (7): pp 1905-1918.

**Trachtenberg J:** Emerging Therapy of Prostate Cancer. *Med Reviews*: October 2001: 6: pp 158-168.

**Trachtenberg J, Gittleman M, Steidle C, Barzell W, Friedel W, Pessis D, Fotheringham N, Campion M, Garnick MB and the Abarelix Study Group:** A Phase 3, Multicenter, Open-label, Randomized Study of Abarelix Depot vs Luteinizing Hormone-Releasing Hormone Plus Daily Antiandrogen in Patients with Prostate Cancer. *Journal of Urology*: April 2002: 167 (4): pp 1670-4.

#### INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Hassouna MM:** Pfizer, Niagra-On-The Lake, Ontario, August 2001. Symposium on Erectile Dysfunction "Driving Forces in ED".

**Hassouna MM:** University of Montreal, Montreal, Quebec, November 2001. Visiting Professor at Division of Urology.

**Jewett MAS:** National Urologic Oncology Update 2001, San Francisco, California, November 2001. Approaches to the residual retroperitoneal mass post-chemotherapy.

**Jewett MAS:** Issues and Controversies in Prostate Care- The 2002 Conference, Whistler, British Columbia, March 2002. Clinical Pointer #1: Value of Predictive Algorithms Prior to Surgery.

**Jewett MAS:** Canadian Urological Association Annual Meeting, St.John's, Newfoundland, June 2002. Educational Forum: Bladder Cancer; Debate- In the last decade research has lead us into better systems for diagnosis of bladder cancer.

**Jewett MAS:** Canadian Urological Association Annual Meeting, St.John's, Newfoundland, June 2002. Educational Forum: Bladder Cancer; Debate- Research in the last decade has brought significant improvements in the treatment of early bladder cancer.

**Jewett MAS:** Princess Margaret Hospital Cancer Conference: New Developments in Cancer Management, Toronto, Ontario, September 2001. Laparoscopic radical prostatectomy.

**Jewett MAS:** Quebec Urological Association, Montreal, Quebec, November 2001. Le depistage precoce du cancer de la prostate: les preuves de son avantage sont-elles reunies? Panel.

**Jewett MAS:** Issues and Controversies in Prostate Care- The 2002 Conference, Whistler, British Columbia, March 2002. Lessons to be Learned from 3,000 Anatomical Radical Prostatectomies.

**Jewett MAS:** Quebec Urological Association, Montreal, Quebec, November 2001. Minimizing morbidity of surgery for testis cancer.

**Jewett MAS:** Germ Cell Tumour Conference V  
 University of Leeds, Leeds, United Kingdom, September 2001. New approaches and techniques to minimize morbidity from surgery for testis cancer.

**Jewett MAS:** Haliburton Highlands Prostate Cancer Support Group, Minden, Ontario, July 2001. New treatments for prostate cancer.

**Jewett MAS:** Americal Urological Association Annual Meeting, Orlando, Florida, May 2002. Postgraduate Course in Testicular Cancer by invitation- 3 hrs.

**Jewett MAS:** Canadian Cancer Society, Toronto, Ontario, September 2001. Prostate cancer can be fatal: Can we reduce the risk?

**Jewett MAS:** Canadian Cancer Society Scarborough Unit Breakfast, Scarborough, Ontario, September 2001. Prostate Cancer Update.

**Jewett MAS:** Man to Man Prostate Support Group, Toronto, Ontario, January 2002. So I've got prostate cancer....what should I know?

**Jewett MAS:** National Urologic Oncology Update 2001, San Francisco, California, November 2001. The role of observation in renal cell carcinoma.

**Jewett MAS:** Quebec Urological Association, Montreal, Quebec, November 2001. Where are we now with laparoscopic prostatectomy; one surgeon's perspective.

**Jewett MAS:** Issues and Controversies in Prostate Care- The 2002 Conference, Whistler, British Columbia, March 2002. Workshop: Radical Prostatectomy Clinical Pathway.

**Radomski SB:** Canadian Academy of Urological Surgeons, St. John's, Newfoundland, June 2002. University of Toronto Surgical Skills Laboratory: Our Experience in Urology.

**Trachtenberg J:** Washington University, St. Louis, Missouri, April 2002. Advances in the management of Hormone-Refractory Prostate Cancer.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

A multicentre randomized controlled study to evaluate the safety and effectiveness of Uryx urethral bulking agent in patients with urinary incontinence. *Herschorn S, Radomski SB: Genyx Medical Inc. (\$108,000 2000 - 2001).*

A randomized controlled trial of an antiandrogen in patients with prostatic intraepithelial neoplasia; molecular correlates. *Trachtenberg J, Squire J, Brown TJ, Sweet J, Stewart R: AstraZeneca (\$300,000 2000 - 2003).*

Adjusting treatment to meet patient preferences: a molecular and psychosocial approach. *Squire J, Ritvo P, Sherar M, Bristow R, Trachtenberg J: Princess Margaret Hospital Foundation (\$1,000,000 2000 - 2002).*

Controlled clinical trial to investigate the safety and efficacy of the urethral bulking agent Macroplastique for the treatment of stress incontinence after TURP or Radical Prostatectomy. *Herschorn S, Radomski SB: Uroplasty Inc. (\$48,600 2000 - 2001).*

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).*

Diferential gene expression in prostate cancer. *Squire J, Zielenska AM, Sweet J, Jewett M, Trachtenberg J, Klotz L, Kapusta L: CaP Cure Award (\$200,000 2000 - 2002).*

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).*

Differential gene expression in prostate cancer. *Squire J, Jewett M, Kapusta L, Trachtenberg J, Klotz L: National cancer Institute of Canada (\$377,000 2000 - 2003).*

Effects of 5-alpha reductase inhibitor on benign prostatic hyperplasia. Genotyping. *Trachtenberg J, Browne Ted: Glaxo Wellcome (\$33,000 1999 - 2001).*

Effects of bisphosphonate plus standard therapy in men with recurrent prostate cancer. *Trachtenberg J: Novartis Pharmaceuticals* (\$12,000 1999 - 2001).

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).

Genetic immunotherapy of cancer. *Alexander Keith Stewart, Gauldie J, Graham FL, Hitt MM, Trachtenberg J: CIHR* (\$843,500 2001 - 2005).

Industry Academic Endeavour. *Hassouna M: CIRH* (\$15,000 2001 - 2002).

Informatics Workshop for Prostate Cancer, Oct 26-27, 2001. *Gallie BL, Jewett MAS, Gospodarowicz MG, Jaddad A: Canadian Prostate Cancer Research Initiative* (\$60,000 2001 - 2002).

Phase III randomized study of a single adjunctive instillation of intravesical AD32 (N-trifloracetyladamycin-14-valorate) versus no adjuvant therapy immediately following transurethral resection in patients with multiple superficial (TA/T1) bladder tumours. *Jewett MAS: Anthra Pharmaceuticals* (\$10,000 1998 - 2002).

Preference functions for a health state classification for prostate cancer. *Krahn M, Ritvo P, Irvine J, Naglie G, Warde P: National Cancer Institute of Canada* (\$191,000 2000 - 2002).

Preference functions for a health state classification system for prostate cancer. *Krahn M, Bezjak A, Irvine J, Naglie G, Ritvo P, Tomlinson G, Torrance G, Trachtenberg J, Warde P: Canadian Institutes of Health Research* (\$121,000 2000 - 2002).

Role of VRI receptors in the afferent innervation of the bladder in voiding dysfunction. *Hassouna M., Wang Y. Ming Z: Medtronic Research Foundation* (\$20,000 2001 - 2002).

The role of serum IGF-1 levels and androgen receptor genotype in prostate cancer diagnosis. *Narod SA, Nam RK, Pollak M, Jewett MA, Trachtenberg J, Fleshner N, Toi A, Girardi S: National Cancer Institute of Canada* (\$560,000 1999 - 2002).

Thermal ablation of small renal tumors. *Jewett MAS, Sherar M, Asch MR, Trachtenberg J, Tsihlias J, Robinette M, Sweet J, Rendon RA: Kidney Foundation of Canada* (\$100,000 2000 - 2002).

## **DIVISION OF VASCULAR SURGERY**

**Dr. K.W. Johnston - Professor (Division Head)**

**Dr. T.F. Lindsay - Associate Professor**

**Dr. B.B. Rubin - Associate Professor**

**Dr. Y. Sternbach - Lecturer**

## **PUBLICATIONS**

**Degousee N, Ghomashchi F, Stefanski E, Singer A, Smart B, Borregard N, Reithmeier R, Lindsay T, Lichtenberger C, Reinisch W, Lambeau G, Arm J, Tischfield J, Gelb M, Rubin B:** Groups IV, V and X phospholipase A2 in human neutrophils; bactericidal and eicosanoid-producing properties. *Journal of Biological Chemistry*: February 2002: 277: pp 5061-5073.

**Degousee N, Stefanski E, Lindsay T, Ford D, Shahani R, Andrews C, Thuerauf D, Glembotski C, Nevalainen T, Tischfield J, Rubin B:** p38 MAP kinase regulates group IIa phospholipase A2 expression in interleukin-1B stimulated rat cardiomyocytes. *Journal of Biological Chemistry* 2001: December 2001: 276(47): pp 43842-9.

**Degousee N, Stefanski E, Lindsay TF, Rubin BB, Shahani R:** p38 MAPK Regulates Group IIa Phospholipase A2 Expression in Interleukin - 1B stimulated Rat Neonatal Cardiomyocytes. *Journal of Biological Chemistry*: September 2001: 276 (47): pp 43842-49.

**Degousee N, Gelb M, Borregard N, Stefanski E, Lindsay T, Reithmeier R, Arm J, Tischfield J, Rubin B:** Human neutrophils (PMN) express group V and X phospholipase A2. *Surgical Forum*: October 2001: L11: pp 176-178.

**Degousee N, Gelb M, Rubin B, Lindsay T:** Human Neutrophils Express Group V and X Phospholipase A2. In: *Shock/Sepsis*: 2002: pp 176-178.

**Illig KA, Rhodes JM, Sternbach Y, Shortell CK, Davies MG, Green RM:** Reduction in wound morbidity rate following endoscopic saphenous vein harvest. *Annals of Vascular Surgery*: July 2001: 15(1): pp 104-9.

**Illig KA, Sternbach Y, Zhang R, Shortell C, Rhodes JM, Davies MG, Green RM:** EEG and neurologic changes during awake carotid endarterectomy. *Annals of Vascular Surgery*: November 2001: 15(5): pp 539-543.

**Johnston KW, Rutherford RB:** Policy on declaring conditions of funding for research studies. *Journal of Vascular Surgery*: January 2002: 35: pp 137.

**Liauw SK, Rubin BB, Lindsay TF, Romaschin AD, Walker PM:** Sequential ischemia/reperfusion results in contralateral skeletal muscle salvage. *American Journal of Applied Physiology*: October 2001: 270(4): pp H1407-13.

**Ojha M, Leask R, Butany J, Johnston KW:** Distribution of intimal and medial thickening in the human right coronary artery: A study of 17 RCA'S. *Atherosclerosis*: July 2001: 158: pp 147-153.

**Shahani R, Klein L, Rubin B, Walker PM, Lindsay TF:** Hemorrhage-induced a-adrenergic signalling results in myocardial TNF-a expression and contractile dysfunction. *Am J Physiol Heart Circ Physiol*: July 2001: 281: pp H84-92.

**Sternbach Y, Green RM:** Endovascular management of acute axillary subclavian venous thrombosis. In: *Handbook of Venous Disorders: Guidelines of the American Venous Forum* (Gloviczki J and Yao JST, ed). Arnold Publisher, London: 2001: pp 209-214.

**Sternbach Y, Illig KA, Zhang R, Shortell CK, Rhodes IM, Davies MG, Green RM:** Hemodynamic benefits of regional anesthesia in carotid endarterectomy. *Journal of Vascular Surgery*: February 2002: 35(2): pp 333-339.

**Sternbach Y, Perler BA:** Acute mesenteric ischemia. In: *Shackleford's Surgery of the Alimentary Tract* (Yeo, C, eds). WB Saunders: 2001: 5: pp 17-31

**Sternbach Y, Perler BA:** Subclavian stenosis. In: *Decision Making in Vascular Surgery* (Cronenwett JL, Rutherford RB, eds). WB Saunders: 2001: pp 76-79.

**Veith FJ, Johnston KW:** Endovascular treatment of abdominal aortic aneurysms: An innovation in evolution and under evaluation. *Journal of Vascular Surgery*: January 2002: 35: pp 183.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Johnston KW:** Canadian Society for Vascular Surgery, Ottawa, Ontario, October 2001. Aortic and iliac reconstruction after kidney transplantation: Experience with an algorithm for renal protection.

**Johnston KW:** Atlantic Vascular Society, Baddeck, Nova Scotia, August 2001. Application of the results of the UK aneurysm trial to individual practice.

**Johnston KW:** Albert Einstein College of Medicine, New York, New York, November 2001. Conflict of interest. Do vascular surgeons have it.

**Johnston KW:** Atlantic Vascular Society, Baddeck, Nova Scotia, August 2001. Contemporary issues in vascular surgery practice.

**Johnston KW:** 20th World Congress of the International Union of Angiology, New York, New York, April 2002. CPD and competition of interests.

**Johnston KW:** Stanford/University of California San Francisco, San Francisco, California, April 2002. Edwin J Wylie Memorial Lecture. Issues in Current and Future Vascular Surgery.

**Johnston KW:** University of Massachusetts, Worcester, Massachusetts, May 2002. Errors in assessing outcomes of surgical studies.

**Johnston KW:** Society for Clinical Vascular Surgery, Las Vegas, Nevada, March 2002. Hume Lecturer - New technology--the issues raise caution.

**Johnston KW:** Northwestern University, Chicago, Illinois, October 2001. Issues in contemporary vascular surgery management.

**Johnston KW:** University of Massachusetts, Worcester, Massachusetts, May 2002. Issues for contemporary vascular surgeons. Ellinwood Lecture.

**Johnston KW:** 20th World Congress of the International Union of Angiology, New York, New York, April 2002. Why do surgeons operate on AAAs less than 5.5 cm in diameter?

**Rubin BB:** Canadian Vascular Society, Ottawa, Ontario, October 2001. Management of patients with venous ulcers.

**Rubin BB:** University of St. Louis, St. Louis, Minnesota, April 2002. Molecular regulation of prostaglandin biosynthesis in cardiac myocytes: role of MAP kinase signaling cascades.

**Sternbach Y:** Vascular Surgery Rounds, University of Ottawa, Ottawa, Ontario, February 2002. Current concepts in endovascular therapy.

**Sternbach Y:** Surgical Grand Rounds, University of Rochester, Strong Memorial Hospital, Rochester, New York, January 2002. Endovascular therapy; where are we and where are we going?

**Sternbach Y:** WL Gore and Company, Flagstaff, Arizona, February 2002. Marketing the next generation of endografts.

## **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).

Fundamental ultrasound studies. *Johnston, KW, Cobbold RSC: Medical Research Council* (\$368,225 1997 - 2002).

Magnetic resonance imaging for ischemia. *Graham Wright, Rubin B, Naeem Merchant: Medical Research Council of Canada* (\$468,000 2000 - 2004).

Mechanistic studies in organ injury after ruptured aortic aneurysm. *Lindsay TF: Physicians' Services Incorporated Foundation* (\$135,000 2000 - 2002).

Molecular regulation of myocardial cyclo oxygenase-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 cyclo oxygenase-2-expression and prostaglandin biosynthesis in neonatal rat cardiac myocytes. *Rubin B: Canadian Institutes of Health Research* (\$461,000 2002 - 2007).

Neutrophil mediated cardiomyocyte cytotoxicity: role of phospholipase A2. *Rubin B: The Heart & Stroke Foundation of Canada* (\$220,000 1999 - 2002).

Peri operative ischemic evaluation study. *Yang, Homer, Rubin, Barry et al: CIHR* (\$1,700,000 2001 - 2004).

Ruptured abdominal aortic aneurysm: Early Organ Injury Prevention Strategies. *Lindsay, Thomas F: The Physicians Services Incorporated Foundation* (\$157,500 2002 - 2004).

## **HONOURS RECEIVED**

**Johnston KW:** Royal College Lecturer, August 2001.

**Johnston KW:** Tovee Award for Postgraduate Teaching, May 2002.

**Lindsay TF:** Heart and Stroke Foundation of Canada - "Highly qualified external referee", November 2001.



## RESEARCH IN EDUCATION

**Dr. C. E. Bayliss - Professor**

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

**Dr. G. Rehehr - Assistant Professor**

## PUBLICATIONS

**Ault G, Reznick R, MacRae H, Leadbetter W, DaRosa D, Joehl R, Peters J, Regehr G:** Exporting a technical skills evaluation technology to other sites. *American Journal of Surgery*: September 2001: 182: pp 254-256.

**Backstein D, Hutchison C, Regehr G:** A needs assessment for continuing professional development in orthopaedic surgery. *Annals of the Royal College of Physicians and Surgeons*: June 2002: 35: pp 219-224.

**Ginsburg S, Regehr G, Stern D, Lingard L:** The anatomy of the professional lapse: Bridging the gap between traditional frameworks and students' perceptions. *Academic Medicine*: June 2002: 77: pp 516-522.

**Hanson M, Tiberius R, Hodges B, McKay S, McNaughton N, Dickens S, Regehr G:** Adolescent standardized patients: An assessment of benefits and risks. *Teaching and Learning in Medicine*: March 2002: 14: pp 104-113.

**Hodges B, Regehr G, Martin D:** Difficulties in recognizing one's own incompetence: Doctors who are unskilled and unaware of it. *Academic Medicine*: October 2001: 76: pp S87-S89.

**Lingard L, Reznick R, Espin S, Regehr G, DeVito I:** Team communications in the operating room: Talk pattern, sites of tension and implications for novices. *Academic Medicine*: March 2002: 77: pp 232-237.

**Matsumoto ED, Hamstra SJ, Radomski S, Cusimano MD:** A novel approach to endourologic training: Training in the surgical skills centre. *Journal of Urology*: October 2001: 166(4): pp 1261-1266.

**Matsumoto ED, Hamstra SJ, Radomski SB, Cusimano MD:** The effect of bench model fidelity on endourologic skills: a randomized controlled study. *Journal of Urology*: March 2002: 167(3): pp 1243-7.

**Naik V, Matsumoto ED, Houston P, Hamstra SJ, Yeung R, Mallon J, Martire TM:** Fiberoptic orotracheal intubation on anesthetized, patients: Do manipulation skills learned on a simple model transfer into the operating room? *Anesthesiology*: August 2001: 95(2): pp 343-348.

**Regehr G, Regehr G, Leeson M, Fusco J:** A comparative study of students and field instructors. *Journal of Social Work Education*: February 2002: 38: pp 55-65.

**Regehr G:** The experimental tradition. In: *Handbook for research in medical education*. (Norman GR, vanderVleutenC, Newble D., eds). Kluwer Academic Publishers., Maastricht, Netherlands: 2002: pp 5-44.

**Ross T, Hamstra SJ:** Development of a Web-Based Surgery Clerkship (<http://surgclerk.med.utoronto.ca/>). *Focus on Surgical Education*: June 2002: 19(3): pp 37-39.

**Wanzel K, Hamstra SJ, Anastakis DJ, Matsumoto ED, Cusimano MD:** Effects of visual-spatial ability on learning of spatially-complex surgical skills. *The Lancet*: January 2002: 359: pp 230-231.

**Wanzel KR, Matsumoto ED, Hamstra SJ, Anastakis DJ:** Teaching technical skills: Training on a simple, inexpensive, and portable model. *Plastic and Reconstructive Surgery*: January 2002: 109(1): pp 258-63.

**Ward M, Gruppen L, Regehr G:** Research in self-assessment: Current state of the art. *Advances in Health Sciences Education*: March 2002: 7: pp 63-80.

## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Hamstra SJ:** Faculty of Health Sciences Program for Educational Research and Development, McMaster University, Hamilton, Ontario, February 2002. Technical Skills Training in Surgery: Transfer of Learning and the Specification of Essential Constructs.

**Regehr G:** University of Michigan School of Medicine, Medical Education Grand Rounds., Ann Arbor, Michigan, October 2001. (1) Kids these days: Promoting and exploiting adult learning in medical students (2) Models of judgement and problem solving in the health professions.

**Regehr G:** International Association for Medical Science Educators, Invited Plenary Session, Rochester, New York, July 2001. Kids these days: Promoting and exploiting adult learning in medical students.

**Regehr G:** University of South Carolina School of Medicine, Grand Rounds, Columbia, South Carolina, January 2002. Kids these days: Promoting and exploiting adult learning in medical students.

**Regehr G:** University of Michigan, Department of Obstetrics and Gynaecology, Grand Rounds., Ann Arbor, Michigan, June 2002. Why is measuring the soft so hard? Confessions and reflections of a numbers guy.

**Regehr G:** Association for Surgical Education, Invited Plenary Session, Baltimore, Maryland, April 2002. Why is measuring the soft so hard? Confessions and reflections of a numbers guy.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

Assessing the assessors: Attending physicians' perceptions of professionalism in medical students. *Ginsburg S, Regehr G., Lingard L: Medical Council of Canada (\$25,000 2002 - 2003).*

Determinants of superior performance on spatially complex surgical procedures. *Wanzel, K.R., Anastakis, D.J., Hamstra, S.J., Caminiti, M.F., Reznick, R.K: Physicians' Services Incorporated Foundation - Resident Research Competition (\$19,733 2002 - 2003).*

Developing research-based video cases to teach novices to recognize, interpret and resolve tension in OR team communication: A multi-disciplinary education initiative. *Lingard L., Reznick R, Espin S, Regehr G, DeVito I: Centre for Excellence in Surgical Education, Research and Training, Association for Surgical Education Foundation. (\$47,000 2001 - 2002).*

Development of a microsurgical training program for novice microsurgeons. *Grober, E.D., Hamstra, S.J., Jarvi, K.A., Reznick, R.K., Wanzel, K.W. & Matsumoto, E.D: Physicians' Services Incorporated - Resident Research Competition (\$14,909 2002 - 2003).*

Effective team integration: Residents' perceptions of the good clerk. *Lavine E., Ginsbrug S, Regehr G: Associated Medical Services/Wilson Student Fellowship (\$5,000 2001 - 2002).*

Evaluating a method of assessing brachial plexus nerve block skills: establishing construct validity and reliability. *Naik, V.N., Chan, V., Naik, J.S., Hamstra, S.J., Houston, P.L. & McCartney, C.J.L: American Society of Regional Anesthesia Foundation (\$4,500 2001 - 2002).*

Evaluating professionalism through the examination of behaviours II: Understanding conflict resolution in medical students. *Ginsburg S., Lingard L, Regehr G: Medical Council of Canada (\$25,000 2001 - 2002).*

Firberoptic orotracheal intubation on anesthetized patients: Does training on a simple model transfer into the operating room? *Naik, V.N., Matsumoto, E.D., Houston, P., Hamstra, S.J., Yeung, R., Mallon, J. & Martire, T.M: Physicians' Services Incorporated Foundation - Resident Research Competition (\$8,609 2000 - 2001).*

Is it feasible and valid to use standardized patients instead of real patients in the royal college clinical examinations in psychiatry? *Abbey S., Hodges B, McNaughton N, Hanson M, Regehr G: Royal College of Physicians and Surgeons of Canada (\$25,000 2001 - 2002).*

Media-based health communication: Exploring the power of visual media to promote understanding. *Wilson-Pauwels, L., Woolridge, N., Wiley, M., Stewart, P., McCready, D., Jenkinson, J., Hamstra, S.J., Schraefel, M: Bell University Laboratories (\$143,534 2001 - 2002).*





Resident self-assessment of technical performance and knowledge. *Ward M., Regehr G, Rotstein L, Dackiw A, MacRae H: Physicians' Services Incorporated Foundation (\$14,420 2002 - 2003).*

Self-assessment of technical skill: How accurate is self assessment of technical skills and does it improve by evaluating peers' performance? *MacRae HM., Ward M, Evans J, Schlachta C, Mamazza J, Reznick R, Regehr G: Association for Surgical Education Foundation (\$34,059 2001 - 2002).* Shape discrimination in stereopsis. *Hamstra, S.J: NSERC (\$80,790 1998 - 2002).*

Specification of visual-spatial abilities relevant to surgical training. *Hamstra, S.J., Anastakis, D.J., Caminiti, M.F., Cusimano, M.C., Matsumoto, E.D: Physicians' Services Incorporated Foundation (\$23,200 2000 - 2001).*

Teaching technical skills in a pediatric residency. *Bannister S., Regehr G, Hilliard R, Lingard L: Physicians' Services Incorporated Foundation. (\$7,675 2002 - 2003).*

The nature of specific processing deficits underlying dyslexia: temporal mechanisms and developmental comparisons of auditory gap detection. *Benson, N.J., Hamstra, S.J., Schneider, B.A., Lovett, M.L., Pichora-Fuller, M.K. & Barron, R.W: International Dyslexia Association (\$30,259 2001 - 2002).*

Towards a new approach for evaluating student field performance. *Bogo M., Power R, Regehr C, Regehr G: Social Sciences and Humanities Research Council of Canada. (\$99,695 2002 - 2005).*

## Division of Anatomy

### **Dr. M.J. Wiley – Division Head**

**Dr. A. Agur – Associate Professor**

**Dr. B. Ballyk - Lecturer**

**Dr. B. Liebgott –Professor**

**Dr. C.M. Morshead – Assistant Professor**

**Dr. J.A. Saint-Cyr – Professor**

**Dr. P.A. Stewart – Professor**

**Dr. I.M. Taylor – Professor**

### **PUBLICATIONS**

**Abosch A, Hutchison H, Saint-Cyr J, Dostrovsky J, Lozano A:** Movement related neurons of the subthalamic nucleus in patients with Parkinson's disease. *American Journal of Neurosurgery*: 2002; 97: pp 1167-1172.

**Ashby M, Paradiso G, Saint-Cyr J, Chen R, Lang A, Lozano A:** Potentials recorded at the scalp by stimulation near the human subthalamic nucleus. *Clinical Neurophysiology*: 2001; 112: pp 431-437.

**Levy R, Lang A, Dostrovsky J, Pahapill P, Romas J, Saint-Cyr J, Hutchison W, Lozano A:** Lidocaine and muscimol microinjections in subthalamic nucleus reverses parkinsonian symptoms. *Brain*: 2001; 124: pp 101-114.

**Martin D, Medri M, Chow R, Oxorn V, Leekham R, Agur A:** Comparing human skeletal muscle architectural parameters of cadavers with in vivo ultrasonographic measurements. *Journal of Anatomy*: 2001; 199: pp 429-434.

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

**Morshead, C:** Department of Cellular and Molecular Biology, Ottawa Hospital Research Institute, Ottawa, Ontario, Canada, April 2002. Neural stem cells in the adult brain: Solving the identity crisis.

**Morshead C:** Canadian Stroke Network, Calgary, Alberta, Canada, June 2002. The role of stem cells in stroke recovery.

**Morshead C:** Neurogenesis in the Brain Symposium, Canadian Federation of Biological Societies, Montreal, Quebec, Canada, June 2002. Neural stem cells in the adult brain: Solving the identity crisis.

**Saint-Cyr J:** Annual Meeting of the American Association of Neurological Surgeons, Chicago, Illinois U.S.A., April 2002. (1) Neuropsychological consequences of neurosurgical interventions in movement disorders. (2) Principles of programming deep brain stimulation electrodes for the treatment of movement disorders.

**Saint-Cyr J:** Hopital de la Salpeterie, Paris, Cedex, France, May 2002. Localisation des electrodes et des plots effectifs dans le noyau southalamique chez les patients Parkinsoniens.

**Saint- Cyr J:** Parkinson Society of Canada, Barrie, Ontario, Canada, May 2002. (1) Current states of mind in Parkinson's disease. (2) Successful strategies for coping with Parkinson's disease.



**Saint-Cyr J:** Centre Hospitaliere Universitaire, Grenoble, France, May 2002. Le noyau subthalamique et des champs de Forel: deux cibles pour la stimulation effective dans le traitement de la maladie de Parkinson.

**Saint-Cyr J:** University of Medicine and Dentistry of New Jersey, New Brunswick, New Jersey, June, 2002. Deep brain stimulation in the subthalamic nucleus for the treatment of PD: Neuroanatomical and neuropsychological perspectives.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's name appears in italics*

Radiological and clinical evaluation of subthalamic nucleus deep brain stimulation. *Saint-Cyr J: Parkinson's Disease Foundation of Canada.* (\$57,000 2001-2003).

Neurophysiological studies in human subthalamic nucleus. *Dostrovsky J, Saint-Cyr J, Hutchison, W, Lozano A: CIHR* (\$262,801 2000-2003).

Mechanisms of deep brain stimulation. *Dostrovsky J, Saint-Cyr J, Chen R, Hutchison, W, Lozano A: NIH* (\$375,000 2001-2002).

Serotonin transporter in Parkinson's disease. *Kish S, Guttman M, Houle S, Saint-Cyr J: M.J. Fox Foundation* (\$200,000 2001-2003).

Do serotonin gene polymorphisms influence serotonin transporter expression in human brain? *Kish S, Guttman M, Houle S, Saint-Cyr J: CIHR* (\$332,883 2001-2004).

Deep brain stimulation effects on task-driven fMRI. *Saint-Cyr J, McAndrews M, Mikulis D: Natural Sciences and Engineering Research Council* (\$64,000 2000 - 2004).

An analysis of fundamental properties of stem cells in the adult mammalian eye: A source of new cells for retinal regeneration. *Morshead C: Canadian National Institute for the Blind.* (\$31,723 2001-2003).

The in-vivo utilization of cell survival factors to investigate the regenerative potential of the adult mammalian brain. *Morshead C: Dean's Research Funds.* (\$10,000 2001-2006).

Neurons – animated cellular and molecular concepts. *Wilson-Pauwels L, Stewart P: Dean's Excellence Fund and the Information Technology Courseware Development Fund.* (\$30,000 2002-2003)

E-based education: Examining an evaluative process. *Nyhof-Young J, Stewart P: Information Technology Development Fund* (\$18,220 2001-2002).

Functional anatomy of the human larynx. *Wiley M, Liebgott, B, Stewart P: Information Technology Courseware Development Fund and the Faculty of Medicine.* (40,000 2002-2003).

Muscle Architecture in children with spastic diplegia and Duchenne muscular dystrophy. *Agur, A, McKee N, Biggar D, Fiume E: Hospital for Sick Children Foundation.* (\$53,727 2001-2002).

Muscle Architecture in children with spastic diplegia and Duchenne muscular dystrophy. *Agur, A, McKee N, Biggar D, Fiume E: Easter Seal Society.* (\$54,402 2000-2002).

## Division of Biomedical Communications

### **Dr. L. Wilson-Pauwels – Division Head**

**Dr. D. Aldrich – Assistant Professor**  
**Dr. K. Brine – Assistant Professor**  
**Dr. K. Chorney – Lecturer**  
**Dr. S. Gilbert – Professor Emeritus**  
**Dr. C. Godkin – Associate Professor**  
**Dr. J. Jenkinson – Assistant Professor**  
**Dr. N. Joy – Professor Emeritus**  
**Dr. L. Lax – Assistant Professor**  
**Dr. M. Mackay – Professor**  
**Dr. D. Mazierski – Associate Professor**  
**Dr. S. Nancekivell – Assistant Professor**  
**Dr. P. Reid – Lecturer**  
**Dr. J. Semple – Associate Professor**  
**Dr. S. Tulk – Assistant Professor**  
**Dr. T. Watkinson – Assistant Professor**  
**Dr. N. Woolridge – Associate Professor**

### **PUBLICATIONS**

**Nancekivell S:** Writing and Producing Patient Education Materials. In: Essays for Biomedical Communications: Volume 1 of Selected Workshops. (Wittee FM, Taylor ND, eds.). American Medical Writers Association, Rockville, Maryland 2001 pp.215-224.

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### **AUTHORSHIP (Authorship and Illustration)**

**Gilbert S:** Tattoo History Source Book. Juno Books, New York, New York. 2002.

**Godkin C:** When the Giant Stirred: Legend of a Volcanic Island. Fitzhenry & Whiteside, Toronto, Ontario. 2002.

**Wilson-Pauwels L, Akesson EJ, Stewart P, Spacey S:** Cranial Nerves: In: Health and disease – second edition. (BC Decker Inc.,) Hamilton and Philadelphia. 2002.

### **ILLUSTRATIONS (Textbooks, Journals)**

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**Midha R, Mackay MB:** Principles of nerve regeneration and surgical repair. Seminars in Neurosurgery: November 2001: 12(1): pp 81-92. (5 illustrations by MacKay MB).

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**Woolridge N, Friesen L:** Illustration of the structure of plant sterol  $\beta$ -sitosterol compared with cholesterol. *Functional Foods – more than just nutrition*. Jones P. *Canadian Medical Association Journal*. 2002; 166(120): pp 1555-63

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**Tannenbaum H, Russell A:** Mechanisms in rheumatology. Core Health Services Inc. Concord, Ontario. 2001. (54 illustrations by **Mazierski D**).

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**D'Agostino M, O'Conner H:** Growing and Changing, 2002. Nelson Thompson Learning, Scarborough, Ontario. (3 illustrations by **Mazierski, D.**)

**D'Agostino M:** Terrific teeth, 2001. Nelson Thompson Learning, Scarborough, Ontario. (13 illustrations by **Mazierski D.**)

**Van Kessel H, Jenkins F, Davies L, Plumb D, Tompkns D, Di Giuseppe M:** Nelson Chemistry 12 2002. Nelson Thompson Learning, Scarborough, Ontario. (18 illustrations by **Mazierski D.**)

**Vavitsas A, Ritter B, Fraser D, Lisser B, Di Giuseppe M:** Nelson Biology 12 2002. Nelson Thompson Learning, Scarborough, Ontario. (15 illustrations by **Mazierski D.**)

**Hirsch A, Martindale D, Stewart C, Barry M, Di Giuseppe M:** Nelson Physics 12 2002. Nelson Thompson Learning, Scarborough, Ontario (13 illustrations by **Mazierski D.**)

**Blake L, Caven M, Dobell D, Flood, Jasper G, Little C, Mason A, Price G:** Biology 12 2002. McGraw-Hill Ryerson Ltd. Toronto. Ontario (6 illustrations by **Mazierski D.**)

**Government of British Columbia:** Toddler's First Steps, a best chance guide to parenting your six-month to three-year old. Macmillan Canada. Toronto, Ontario (3 illustrations by **Mazierski D**) 2002.

#### **ANIMATION**

**Woolridge N, Lumsden CJ:** Conceptual 3D animation: Past and future evolution in the landscape of social organization. 2001. In Lumsden CJ, Sociobiology. On-line edition of the Encyclopedia of Neurosciences, 3<sup>rd</sup> edition. (Adelman G, Smith BH eds.). Elsevier Science: 2001. <http://www.bmc.med.utoronto.ca/sociobiology/>.

**Woolridge N, Lumsden CJ:** Conceptual 3D animation: Order and complexity in simple memory-driven and foresight-driven dynamical agents. In Lumsden CJ, Sociobiology. On-line edition of the Encyclopedia of Neurosciences, 3<sup>rd</sup> edition (Adelman G, Smith BH eds.). Elsevier Science: 2001 <http://www.bmc.med.utoronto.ca/sociobiology>.

#### **Feature Films / Storyboards**

**Dutton C (Jack Green), Brine K:** Against the ropes. Paramount, 2002.

**Lindo E, Brine K:** Touching wild horses. Dufferin Gate. 2001

#### **Television Movies / Storyboards**

**Surjik S, Brine L:** Miss Miami. NBC.2002.

#### **Television Series / Storyboards**

**Ryerson S, Brinke K:** Soul Food. Paramount 2002.

**Zisk R, Straiton D, Brine K:** Odyssey 5. 2002.

**Sirjik S, Brine K:** Emma Brody. Twentieth Century Fox. 2002.

#### **Patient Education**

Cold Symptoms. Patient education booklet. Headcan/Wallace-Wyeth-Ayerst. 2002. (4 illustrations by **Chorney K.**)

Dermatomes (Male) and Dermatomes (Female). Patient education posters (2). Headcan. 2002. (4 illustrations by **Chorney K.**)

The proper use of the sulcabrush pocket cleansing device for enhanced dental hygiene. Sulcabrush, Downsview, 2001. (Product illustration for use in sales material by **Mazierski D.**)



## INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Jenkinson J, Woolridge N:** Slice of Life Conference, Toronto, Ontario, June 2002. Media-based health communication: Exploring the power of visual media to promote understanding.

**Kreindler D, Lumsden CJ, Woolridge N:** Strategy Institute's Symposium on Wireless Healthcare Technology, Toronto Ontario, February 2002. Wireless handhelds in mood disorders research.

**Kreindler D, Lumsden CJ, Woolridge N, Levitt A:** Handheld Computers in Medicine Symposium (sponsored by the Technology Application Unit of Mt. Sinai Hospital), Toronto, Ontario, November 2001. Subject retention and drop out rate in a palm Os-based wireless telemetric study of mood dynamics.

**Kreindler D, Lumsden CJ, Woolridge N, Levitt A:** Grand Rounds Presentation to the Department of Psychiatry, Sunnybrook & Women's College Health Sciences Centre, July 2001. Validation of a wireless telemetry protocol for a bi-daily mood evaluation.

**Kreindler D, Lumsden CJ, Woolridge N, Levitt A:** Research Day, Department of Psychiatry, Sunnybrook & Women's College Health Sciences Centre, July 2001. The VMQ method of mood assessment. Toronto, Ontario.

**Mackay MB:** AEIMS, Association of European Medical and Scientific Illustrators, Paris, France, October 2001. The animation factor: a sequential illustrator's viewpoint.

**Woolridge N, Jenkinson J, Wilson-Pauwels L:** Association of Medical Illustrator's Annual Meeting, Asilomar, California, August 2001. Media-based health communications: Exploring the power of visual medial to promote understanding.

**Woolridge N, Lumsden CJ, Kreindler D:** Slice of Life Conference, Toronto, Ontario, June 2002. A virtual character system for understanding complex changes in mood and affect.

## ABSTRACTS, POSTERS, AND/OR PAPERS READ

**Pennefather P, Watt-Watson J, Hunter J, Librach L, Lax L, Raman-Wilms L, Schreiber J, Stinson J, Dao T, Gordon A, Mock D,** *Pain Week: An Interfaculty Interprofessional Education Program Dealing with the Multidimensional Issues of Pain Assessment & Management.* The Society for Neuroscience 32nd Annual Meeting, November 2002, Orlando, Florida, U.S.A. SFN ID: 12818.

**Watt-Watson J, Hunter J, Pennefather P, Librach L, Raman-Wilms L, Schreiber J, Stinson J, Dao T, Lax L, Gordon A, Mock D,** *Integrating JASP Curricula: One Pain Course for Six Health Disciplines.* World Congress in Pain, August 17-22, 2002, San Diego, California, U.S.A. (Poster Presentation.)

**Lax L, Watt-Watson J, Pennefather P, Hunter J, Scardamalia M,** *Rich Media E-Learning for Collaborative Knowledge Building in an Interfaculty Health Professional Education Initiative.* Slice of Life Conference for Medical Multimedia Developers and Educators, June 21, 2002, University of Toronto, Toronto, Canada. (Online Poster Demonstration.)

**Hunter J, Lax L, Watt-Watson J, Pennefather J,** *Development of a Post-Amputation Pain Case as an Interdisciplinary Online Learning Tool.* AQIPA/OAAC (Québec & Ontario Associations for Amputee Care) Joint Congress, May 10-11, 2002, University of Ottawa, Ottawa, Canada.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

Project to examine the cost/effectiveness of E-learning for interfaculty health sciences education. *Lax L, Watt-Watson J, Pennefather P:* *The Academy Priority Fund of the Council of Health Science and Social Work Deans.* (\$10,000 2001-2002).

Project to examine the cost/effectiveness of E-learning for interfaculty health sciences education. *Lax L, Watt-Watson J, Pennefather P:* *University of Toronto Centre for the Study of Pain.* (\$5,000 2001-2002).

Neurons – Animated cellular and molecular concepts. *Wilson-Pauwels L, Stewart P; Dean's Excellence Fund/ Information Technology Courseware Development Fund, University of Toronto. (\$30,000 2002).*

*Wilson-Pauwels L; Bell University Laboratories at the University of Toronto Equipment Grant. (\$141,177 2002).*

Media-based health communications: Exploring the power of visual media to promote understanding. *Wilson-Pauwels L, Woolridge N, Jenkinson J, Hamstra S, McCready D, Stewart P, Wiley M, Schraefel M; Bell University Laboratories at the University of Toronto Project Grant (\$79,905 2002).*

Wireless mobility: Mapping long-term mood variations in bipolar mood disorder. *Lumsden CJ, Kreindler D, Levitt A, Woolridge N; Bell University Labs project: product support from Palm Canada Inc. (\$132,250 2001).*

#### **HONOURS RECEIVED**

**Jenkinson J:** Certificate of Appreciation for Excellence in Teaching. Division of Biomedical Communications, Department of Surgery, Faculty of Medicine, University of Toronto, June 2002.

**Mackay M:** Certificate of Appreciation for Excellence in Teaching. Years I & II Students, Division of Biomedical Communications, Department of Surgery, Faculty of Medicine, University of Toronto, June 2002.





## Cross Appointments

Dr. A.J. Baker - Assistant Professor (Anesthesia)  
Dr. B.V. Bapat - Assistant Professor (Laboratory Medicine and Pathobiology)  
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. 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. 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. G.A. Levy - Professor (Medicine)  
Dr. C. Lumsden - Professor (Medicine)  
Dr. A. McDonald - Assistant Professor (Medicine)  
Dr. D.A.G. Mickle - Professor (Laboratory Medicine and Pathobiology)  
Dr. M. Milner - Professor (Rehabilitation Science)  
Dr. W. Montanera - Assistant Professor (Medical Imaging)  
Dr. S. Narod - Associate Professor (Public Health Sciences)  
Dr. C.D. Naylor - 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. Slutsky - Professor (Medicine)  
Dr. B. Steinhart - Instructor (Medicine)  
Dr. D.E. Stewart - Professor (Psychiatry)  
Dr. K.G. terBrugge - Professor (Medical Imaging)  
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

**Ahmad F, Gupta H, Rawlins J, Stewart DE:** Preferences for gender of family physicians among Canadian European-descent and South Asian immigrant women. *Family Practice*: April 2002: 19: pp 146-53.

**Aubin PP, Cheah HK, Davis AM, Gross AE:** Long-term followup of fresh femoral osteochondral allografts for posttraumatic knee defects. *Clinical Orthopaedics and Related Research*: October 2001: 391(Suppl): pp S318-27.

**Austin LA, Ahmad F, McNally MJ, Stewart DE:** Breast and cervical cancer screening in Hispanic women: A literature review using health belief model. *Women's Health Issues*: May 2002: 12(3): pp 122-28.

**Baker AJ, Phan N, Moulton RJ, Fehlings MG, Yucel Y, Zhao M, Liu E, Tian GF:** Attenuation of the electrophysiological function of the corpus callosum following fluid percussion injury in the rat. *Journal of Neurotrauma*: May 2002: 19(5): pp 587-599.

**Beasley N, Gullane P:** Cancer of the larynx, paranasal sinuses and temporal bone. In: *Essential otolaryngology, Head and Neck Surgery 5th Edition*. (Lee KJ, ed). Appleton and Lange,: 2002: 27: pp 596-616.

**Bell CD, Coire C, Treger T, Volpe R, Baumal R, Fornasier V:** The dark nucleus and disruptions of follicular architecture: possible new histological aids for the diagnosis of the follicular variant of papillary carcinoma of the thyroid. *Histopathology*: November 2001: 39: pp 33-42.

**Bonetta C, Cheung AM, Stewart DE:** Italian-Canadian women's views of menopause: How culture may affect hormone use. *Medscape Women's Health*: October 2001: 6(5):

**Bradley G, Irish J, MacMillan C, Mancer K, Witterick I, Hartwick W, Gullane P, Kamel-Reid S, Benchimol S:** Abnormalities of the ARF-p53 pathway in oral squamous cell carcinoma. *Oncogene*: August 2001: 20(5): pp 654-658.

**Brown AL, Rarhat W, Merguerian PA, Wilson GJ, Khoury AE, Woodhouse KA:** Twenty-two week assessment of bladder acellular matrix as a bladder augmentation material in a porcine model. *Biomaterials*: May 2002: 23(10): pp 2179-90.

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**Cameron JL, Franche RL, Cheung AM, Stewart DE:** Lifestyle interference and emotional distress in family caregivers to advanced cancer patients. *Cancer*: January 2002: 94(2): pp 521-27.

**Carabutsos B, Myerthall S, Fornasier V, Binnington A, Maistrelli G:** Osseo-integration of hydroxyapatite porous-coated femoral implants in a canine model. *Clinical Orthopaedics and Related Research*: November 2001: 392: pp 442-449.

**Carson J, Bridges E:** Canadian Academy of Sport Medicine position statement: Abandoning routine body composition assessment- a strategy to reduce disordered eating among female athletes and dancers. *Clinical Journal of Sport Medicine*: October 2001: 11(4): pp 280.

**Carson J, McCullough S, Tucker D:** Abstract-self-care practices of perimenopausal women. *Clinical Journal of Sport Medicine*: January 2002: 12(1): pp 65.

**Cohen MM, Schei B, Ansara D, Gallop R, Stuckless N, Stewart DE:** A history of personal violence and postpartum depression: Is there a link. *Archives of Women's Mental Health*: January 2002: 4(3): pp 83-92.

**Clark RH, Gerstmann DR, Jobe AH, Moffitt ST, Slutsky AS, Yoder BA:** Lung injury in neonates: Causes, strategies for prevention and long-term consequences. *Journal of Pediatrics*: October 2001: 139(4): pp 478-84.



**Davies JE, Karp JM, Baksh D:** Mesenchymal cell culture bone. *Methods of Tissue Engineering*: February 2002: pp 333-44.

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**De Durante G, Del Turco M, Rustichini L, Cosimini P, Giunta F, Hudson LD, Slutsky AS, Ranieri VM:** ARDSNet lower tidal volume ventilatory strategy may generate intrinsic positive end-expiratory pressure in patients with acute respiratory distress syndrome. *American Journal of Respiratory and Critical Care Medicine*: May 2002: 165(9): pp 1271-1274.

**dos Santos CC, Slutsky AS:** Advances in ARDS: How do they impact bedside management? In: 2002 Yearbook of Intensive Care and Emergency Medicine (Vincent JL, ed). Springer Verlag, Berlin, Heidelberg: 2002: pp 320-336.

**dos Santos CC, Slutsky AS:** Overview of high-frequency ventilation modes, clinical rationale, and gas transport mechanisms. In: *Respiratory Care Clinics of North America: High Frequency Ventilation* (Stewart TE, ed). Harcourt Health Sciences, W.B. Saunders, Philadelphia, Pennsylvania: 2001: pp 549-575.

**dos Santos CC, Zhang H, Slutsky:** From bench to bedside: bacterial growth and cytokines (Commentary). *Critical Care*: February 2002: 6: pp 4-6.

**Dossetor JB, Daar As:** Ethics of transplantation: Allotransplantation and xenotransplantation;. In: *Kidney transplantation in developing countries* (Morris PJ, ed). W.B.Saunders, Philadelphia: 2001: pp 732-44.

**Esplen MJ, Butler K, Madlensky L, McKinnon W, Bapat B, Wong J, Aaronson M, Gallinger S:** Motivations and psychosocial impact of genetic testing for HNPCC. *American Journal of Medical Genetics*: September 2001: 103(1): pp 9-15.

**Esufali S, Bapat B:** Genetics of Colorectal Cancer. In: *Business Briefing: Life Sciences Technology World Market Research Centre*, London, United Kingdom: 2002:

**Farb RI, Kim JK, Willinsky RA, Montanera WJ, terBrugge K, Derbyshire JA, vanDijk JM, Wright GA:** Spinal dural arteriovenous fistula localization with a technique of first-pass gadolinium-enhanced MR angiography: initial experience. *Radiology*: June 2002: 222(3): pp 843-50.

**Farb RI, Kim JK, Willinsky RA, Montanera WJ, terBrugge KG, Derbyshire JA, van Dijk JM, Wright GA:** Spinal dural arteriovenous fistula localization with a technique of first-pass gadolinium-enhanced MR angiography: initial experience. *Radiology*: March 2002: 222(3): pp 843-50.

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

**Baker AJ:** Indian Society of Neuroanaesthesiology & Critical Care, Mumbai, India, January 2002. Critical care of head trauma.

**Baker AJ:** Perioperative concerns and monitoring of head trauma patients, Mumbai, India, January 2002. Critical care of head trauma.

**Baker AJ:** Canadian Anesthesiologists Society 58th Annual Meeting, Victoria, British Columbia, June 2002. Fluid management in neuroanaesthesia and neuro-critical care.

**Baker AJ:** Toronto Defence and Civil Institute of Environmental Medicine, Fluid Resuscitation in Combat, Toronto, Ontario, October 2001. Head injury and hypertonic resuscitation.





**Baker AJ:** Canadian Anesthesiologists Society 58th Annual Meeting, Victoria, British Columbia, June 2002. Neuro monitoring workshop: Transcranial doppler.

**Baker AJ:** Toronto Critical Care Medical Symposium, Toronto, Ontario, October 2001. Neurocritical care: invasive monitoring.

**Baker AJ:** Toronto Critical Care Medical Symposium, Toronto, Ontario, October 2001. Neurocritical care: monitoring the injured brain.

**Baker AJ:** Toronto Critical Care Medical Symposium, Toronto, Ontario, October 2001. Panel discussion: end of life decision making.

**Carson J:** Coalition of Family Physicians of Ontario Conference: Pointers and politics in family medicine, Markham, Ontario, April 2002. Head games: a sport med update.

**Daar A:** International Association of Bioethics Conference on Health Care Ethics., Abu Dhabi, United Arab Emirates, March 2002. Avoiding a genomics divide.

**Daar A:** World Health Organization, Havana, Cuba, March 2002. Avoiding the genomics divide through a specifically designed program of research, capacity building and policy interventions.

**Daar A:** Public Health Ethics Conference, Toronto, Ontario, May 2002. Challenging health inequities: A global perspective.

**Daar A:** WHO Advisory Committee on Health Research, Geneva, Switzerland, July 2001. Ethical aspects of genomics.

**Daar A:** World Health Organization, Toronto, Ontario, April 2002. Harnessing genomics biotechnology for developing countries.

**Daar A:** WHO UNDP/UNFPA/WHO/World Bank Special Programme of Research Development and Research Training in Human Reproduction., Geneva, Switzerland, September 2001. Infertility and social suffering.

**Daar A:** Einstein Institute for Science, Health and the Courts., Hawaii, United States July 2001. Recent international bioethics work in the area of genomics.

**Daar A:** Conference on Biotechnology and Globalization. Centre for International Development at Harvard University, Cambridge, Massachusetts, September 2001. Wider implications of genomics and ethics.

**Davies JE:** The Society for Biomaterials, Tampa, Florida, April 2002. Clemson Award for basic research presentation: Bone engineering.

**Davies JE:** International Symposium, Santa Margherita, Italy, May 2002. Mechanisms of endosseous healing.

**Davies JE:** International Symposium on Implantology, Boston, Massachusetts, May 2002. Mechanisms of endosseous integration.

**Davies JE:** 3i Brazil Goiania Congress, Goiania, Brazil, June 2002. Mechanisms of endosseous integration: basic concepts of early learning.

**Davis AM:** Twin Cities Grand Rounds and University of Minnesota Department of Orthopaedics Arthroplasty., St. Paul, Minneapolis, January 2002. Arthroplasty Visiting Professor: (1) Putting outcome measures into clinical practice, (2) Patient-based outcome measures: What have we learned? How do we move forward?

**Davis AM:** Division of Musculoskeletal Oncology, University of Washington, Seattle, Washington, March 2002. Musculoskeletal Oncology Visiting Professor: Measuring disability in extreme sarcoma: The measure and its impact on treatment.

**Gullane PJ:** American Academy of Otolaryngology - HNSF Annual Meeting, Denver, Colorado, August 2001. (1) Adult laryngotracheal stenosis, (2) Lip reconstruction.

**Gullane PJ:** North American Skull Base Society, San Diego, California, February 2002. (1) New approaches to esthetic reconstruction of the lateral skull base, (2) Soft tissue reconstruction of the skull base - Does it make sense?

**Gullane PJ:** Mt. Sinai/University of Iowa Head and Neck Multidisciplinary Course, New York, New York, March 2002. (1) Practice guidelines- Hypopharyngeal cancer, (2) Surgical decision making in hypopharyngeal cancer.

**Gullane PJ:** Israel Society of Plastic & Aesthetic Surgery, Tel Aviv, Israel, November 2001. Free vascularized flap and the flap plate options: Comparative results of lateral mandibular defect reconstruction.

**Gullane PJ:** American Academy of Otolaryngology, Captiva Island, Florida, January 2002. Instructional course.

**Gullane PJ:** Spanish Society of Otorhinolaryngology/Head and Neck Surgery, Madrid, Spain, November 2001. Lip reconstruction.

**Gullane PJ:** American Academy of Otolaryngology, New Orleans, Louisiana, October 2001. Moderator: Laryngotracheal stenosis.

**Gullane PJ:** Mt. Sinai/University of Iowa Head and Neck Multidisciplinary Course, New York, New York, March 2002. Moderator: Lunch with the Professor.

**Gullane PJ:** American Academy of Otolaryngology, New Orleans, Louisiana, October 2001. Panelist: (1) Cancer of the oral cavity, (2) Evaluation of a lump in the neck.

**Gullane PJ:** IV C ongress of Chile/Argentinian Head and Neck Society, Santiago, Chile, August 2001. Panelist: (1) Complex head and neck reconstruction, (2) Laryngotracheal reconstruction.

**Gullane PJ:** Triological Society, Philadelphia, Pennsylvania, January 2002. Panelist: (1) Sinus and skull base lesions, (2) Sensate Flap reconstruction of the tongue, (3) Morbidity and peri-operative fluid management in free flap reconstruction of head and neck, (4) Free temporoparietal flap for cricoid reconstruction.

**Gullane PJ:** Wharton Day - Clinical trials in Head and Neck Oncology: The next 10 years, Toronto, Ontario, June 2002. Panelist: Trials in head and neck oncology.

**Gullane PJ:** IV C ongress of Chile/Argentinian Head and Neck Society, Santiago, Chile, August 2001. Visiting Professor: (1) Complications of microvascular reconstructive surgical procedures after irradiation or chemoirradiation, (2) State of the art in laryngotracheal reconstruction, (3) Complications of head and neck surgery, (4) State of the art in skull base reconstruction.

**Gullane PJ:** Head and Neck Surgery Symposium, Indian Wells, California, March 2002. Visiting Professor: (1) Management of advanced disease of the head and neck, (2) reconstruction of the oral cavity, (3) Panel discussion of audience cases.

**Gullane PJ:** Spanish Society of Otorhinolaryngology/Head and Neck Surgery, Madrid, Spain, November 2001. Visiting Professor: (1) Tumors of the tonsil, (2) Laryngo trachel reconstruction, (3) Surgical treatment of hypopharyngeal tumors, (4) Indications for the treatment and reconstruction in oral cavity tumors.

**Gullane PJ:** Head and Neck Surgery Society, Ankara, Turkey, May 2002. Visiting Professor: (1) Evolution of head and neck surgery over the past 30 years, (2) Lip reconstruction of the oral cavity: Overview, (3) Lip reconstruction following ablation for cancer, (4) Management of advanced disease in the head and neck.

**Gullane PJ:** Centre for Skull Base Surgery, San Diego, California, April 2002. Visiting Professor: Advanced skull base neoplasms: Analysis and management.

**Gullane PJ:** Moses Nussbaum Distinguished Lectureship, New York, New York, May 2002. Visiting Professor: Head and neck soft tissue sarcoma.

**Harvey B:** American Medical Writers Association, Norfolk, Virginia, October 2001. Advanced data presentation: Tables, graphs & charts.

**Pritzker KPH:** Osteoarthritis Consensus Conference, Toronto, Ontario, April 2002. General pathology of osteoarthritis.

**Pritzker KPH:** Plastic Surgery Reserach Council, Boston, Massacheussetts, April 2002. Hemodynamic and histopathologic investigation of the mechanism of radiation-induced craniofacial bone growth inhibition with and without cytoprotection in the infant New Zealand rabbit orbito-zygomatic complex (OZC).



**Pritzker KPH:** Orthopaedic Research Society, Dallas, Texas, February 2002. Inflammatory cytokine response to polyethylene particles in two patient populations.

**Pritzker KPH:** Insight Conference, Toronto, Ontario, December 2001. Medical and industrial models of laboratory service delivery.

**Pritzker KPH:** McCaig International Symposium on Joint Injury and Repair, University of Calgary, Department of Orthopaedic Surgery, Emerald Lake, Alberta, March 2002. Osteoarthritis pathology: Key research directions.

**Pritzker KPH:** Osteoarthritis Consensus Conference, Toronto, Ontario, April 2002. Pathogenesis of osteoarthritis: New perspectives.

**Pritzker KPH:** Society for Biomaterials, Tampa, Florida, April 2002. The use of cytokines as a predictive factor for elevated inflammatory responses.

**Pritzker KPH:** Department of Bioengineering, University of Washington, Seattle, Washington, October 2001. Visiting Professor.

**Pritzker KPH:** Department of Bioimmunology, Anderson Hospital, Houston, Texas, January 2002. Visiting Professor.

**Pritzker KPH:** Department of Pathology, Berne, Switzerland, November 2001. Visiting Professor.

**Pritzker KPH:** First McCraig International Symposium on Joint Injury and Repair, University of Calgary, Department of Orthopaedic Surgery, Calgary, Alberta, March 2002. Visiting Professor.

**Pritzker KPH:** TNO, Prevention and Health GABIUS Laboratory, Leiden, Netherlands, November 2001. Visiting Professor.

**Pritzker KPH:** World Association of Pathology and Laboratory Medicine, Cologne, Germany, November 2001. Visiting Professor.

**Slutsky AS:** Advanced Strategies for Mechanical Ventilation in Adults, IPOKRaTES Sweden, Marstrand Island, Sweden, June 2002. (1) A physiologic approach to hypoxemia, (2) Pathophysiology of ventilator induced lung injury, (3) Ventilatory management of ARDS; recent trials, (4) Unconventional modes of ventilation.

**Slutsky AS:** 31st Society of Critical Care Medicine Congress, San Diego, California, January 2002. (1) Cellular mechanisms of acute lung injury and resolution - Ventilator induced lung injury, (2) Panel Discussion Moderator: How I ventilate the patient with ARDS, (3) The ABC's of ARDS - High frequency oscillatory ventilation in ARDS.

**Slutsky AS:** 22nd International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 2002. (1) From barotrauma to biotrauma, (2) Mechanical ventilation: Then and now, (3) High frequency jet ventilation, (4) Management of ARDS (moderator), (5) High frequency ventilation (pro-con debate).

**Slutsky AS:** Catalan Society of Critical Care Medicine Annual Meeting, Barcelona, Spain, March 2002. (1) Hospital-based research: A Canadian perspective, (2) Basic mechanisms of ventilator-induced lung injury.

**Slutsky AS:** 8th World Congress of Intensive & Critical Care Medicine, Sydney, Australia, October 2001. (1) Mechanical ventilation as a cause of ARDS, (2) Systemic effects of mechanical ventilation; (3) Session: Iatrogenesis of Mechanical Ventilation: How to Prevent It (Chairman), (4) Biotrauma, pulmonary and systemic effects: Brief review of mechanisms and studies on interventional prevention.

**Slutsky AS:** B.C. Society of Respiratory Therapists Silver Anniversary Educational Forum, Vancouver, British Columbia, June 2002. (1) Mechanical ventilation: From Vesalius to VILI, (2) Update of ARDS studies in mechanical ventilation, (3) Panel discussion: Treatment strategies for acute lung injury.

**Slutsky AS:** Critical Care Society Congress, Sun City, South Africa, July 2001. (1) Multiple organ dysfunction syndrome and ventilation, (2) Ventilator-induced lung injury and lung protection.

**Slutsky AS:** The Toronto Critical Care Medicine Symposium, Toronto, Ontario, October 2001. (1) Pressure-volume curves in ARDS: Are they useful? and (2) Member of the Meeting's Organizing Committee.

**Slutsky AS:** 8th International Conference on Mechanical Ventilation, Valencia, Spain, April 2002. Co-Director of Course: (1) The ventilator: A dangerous tool, (2) Is autopsy the gold standard for the diagnosis of VILI? (Co-Chair, debate).

**Slutsky AS:** 29th Congress, Japanese Society of Intensive Care Medicine, Okayama, Japan, March 2002. Mechanical ventilation: From barotrauma to bio-trauma to bedside.

**Stewart DE:** Visiting Professor, University of Iceland, Iceland, April 2002. Boundary violations curricula.

**Stewart DE:** PASSCAN, Toronto, Ontario, June 2002. Breastfeeding and psychotropic drugs.

**Stewart DE:** Visiting Professor, University of Iceland, Iceland, April 2002. Career Issues for academic physicians.

**Stewart DE:** Visiting Professor, University of Hawaii, Hawaii, United States, February 2002. Depression and cancer.

**Stewart DE:** Visiting Professor, University of Hawaii, Hawaii, United States, February 2002. Depression and heart disease.

**Stewart DE:** Visiting Professor, University of Hawaii, Hawaii, United States, February 2002. Estrogen and the CNS.

**Stewart DE:** Global Neuroscience Congress, New York, New York, May 2002. Gender differences in physical symptoms in depression.

**Stewart DE:** PASSCAN, Toronto, Ontario, June 2002. Infanticide in Canada.

**Stewart DE:** Well's College, New York, New York, September 2001. Informal consent and fertility.

**Stewart DE:** World Psychiatric Association, Madrid, Spain, September 2001. International Challenges in Women's Mental Health.

**Stewart DE:** Visiting Professor, University of Iceland, Iceland, April 2002. Ischemic heart disease and depression.

**Stewart DE:** Visiting Professor, University of Iceland, Iceland, April 2002. Menopause and affective disorders.

**Stewart DE:** Visiting Professor, University of Hawaii, Hawaii, United States, February 2002. Menopause and mood.

**Stewart DE:** Central and Eastern European and Asian Neuroscience Congress, Malta, Greece, March 2002. Physical symptoms in depression.

**Stewart DE:** Link Atlantic Psychiatry, May 2002. Postpartum depression.

**Stewart DE:** Visiting Professor, University of Hawaii, Hawaii, United States, February 2002. Psychotropic drugs in pregnancy and lactation.

**Stewart DE:** PASSCAN, Toronto, Ontario, June 2002. Screening for perinatal depression.

**Stewart DE:** Visiting Professor, University of Iceland, Iceland, April 2002. Sexual harassment in academic medicine.

**Stewart DE:** Registered Nurses Association of Ontario, Toronto, Ontario, June 2002. Stopping women abuse.

**Stewart DE:** American Psychiatric Association, Philadelphia, Pennsylvania, May 2002. The rules of the club.

**Stewart DE:** Registered Nurses Association of Ontario, Toronto, Ontario, June 2002. Violence against women curricula.

**Stewart DE:** World Federation of Mental Health, Vancouver, British Columbia, July 2001. Women, depression and ischemic heart disease.



**terBrugge KG:** 2000-2001 International Master Degree in Neurovascular Disease, Chiangmai, Thailand, November 2001. (1) Berry aneurysms and risk of hemorrhage, (2) Natural history of BAVMs, (3) Micro AVM, (4) Fusiform aneurysms, (5) False aneurysms, (6) Multiple Aneurysms, (7) Classification of maxillofacial vascular lesions, (8) Rendu-Osler Weber disease (9) AVF (glue).

**terBrugge KG:** 3rd Annual South African Interventional Neuroradiology Peer Review Group, South Africa, August 2001. (1) Aneurysm treatment (coiling/clipping), (2) The role of 3D DSA in neuro-endovascular treatment, (3) Endovascular treatment of dural AVF, (4) Endovascular treatment of epistaxis and head and neck AVM/AVF, (5) Management of carotid cavernous fistulas and vertebral fistulas, (6) Cerebral venous ischemia, imaging and the role of embolization.

**terBrugge KG:** World Federation of Therapeutic and Interventional Neuroradiology, Seoul, Korea, September 2001. (1) Intraarterial thrombolysis, (2) venous thrombolysis, (3) Natural history of AVM, (4) AVM; Risks and benefits.

**terBrugge KG:** 2001-2002 International Master Degree in Neurovascular Diseases, Chiangmai, Thailand, March 2002. (1) Venous injuries, thrombosis and hemorrhages, (2) DAVs and cortical venous drainage, (3) Spontaneous thrombosis, (4) Abused children, (5) Para spinal and epidural lesions, (6) Spinal cord vascular tumors (hemangioblastomas), (7) SC cavernoma, (8) Hemangioblastomas, (9) Para spinal AVM, DAVs sacral, SCAVM.

**terBrugge KG:** Visiting Professor of Neurosurgery, Karolinska Hospital, Stockholm, Sweden, February 2002. Cerebral venous ischemia.

**terBrugge KG:** Visiting Professor of Radiology, Boston Medical Centre, Boston, Massachusetts, November 2001. Cerebral venous vascular disease. Clinical presentation, imaging and management strategies.

**terBrugge KG:** American Society of Neuroradiology, Vancouver, British Columbia, May 2002. Congenital malformations.

**terBrugge KG:** 2001 National Neuro Endovascular Symposium, South Africa, August 2001. Intracranial aneurysms: Endovascular or surgical management.

**terBrugge KG:** University of Tokushima, Tokushima, Japan, September 2001. Management of brain and dural AVMs and AVFs.

**Willinsky R:** Society of Pakistani Physicians of North America, Toronto, Ontario, April 2002. Cerebral aneurysms: Research directions.

**Willinsky R:** Eastern Neuroradiological Society, Bolton Landing, New York, September 2001. Imaging and treatment of venous congestive disorders of the CNS.

**Willinsky R:** Annual Organ Imaging Review, Toronto, Ontario, October 2001. Neuro cases quiz.

**Willinsky R:** Department of Neuroradiology, Karolinska Institute, Stockholm, Sweden, September 2001. Visiting Professor.

## RESEARCH AND INVESTIGATIONS

*Senior Investigator's Name Appears in Italics*

Health needs of Pregnant Refugee Women *Gagnon A, Osman-Martinez J, Stewart DE: Canadian Institutes for Health Research* (\$289,265 2002 - 2004).

A pilot correlative study between plasma cell-free Epstein-Barr virus (EBV) DNA, clinicopathological findings and functional imaging in patients with nasopharyngeal carcinoma (NPC). *Siu L, Kamel-Reid S, Gullane P, Irish J, Keller A, MacMillan C, O'Sullivan B: PMH Foundation (Patient Donation)* (\$100,000 2000 - 2001).

A program of inter-disciplinary and population-based studies of the determinants and impact of colorectal cancer- A genetic-epidemiological approach. *McLaughlin J, Bapat B et al: Canadian Institutes of Health Research (CIHR)* (\$5,106,885 2001 - 2006).

A randomized controlled trial of psychoeducation vs standard care in oral cancer patients. *Katz M, Gullane P, Irish J, Devins: NCIC* (\$136,000 2001 - 2002).

Acellular matrix: Tissue engineering approaches for pediatric cardiovascular reconstruction. *Wilson GJ, Courtman DW: Medical Research Council of Canada/Canadian Institutes of Health Research* (\$236,811 2000 - 2003).

Applied ethics and biotechnology. *Singer PA, Daar AS: Ontario Research and Development Challenge Fund* (\$5,800,000 2001 - 2008).

Biotrauma: physiological mechanisms, biological consequences. *Slutsky AS: Medical Research Council of Canada* (\$579,651 1999 - 2004).

Canadian program in genomics and global health. *Singer PA, Daar AS: Genome Canada* (\$7,200,000 2001 - 2005).

Canadian Women's Health Status 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).

CFRCCS microsatellite instability project. *Lindor NM, Bapat B: National Institutes of Health* (\$2,390,570 1999 - 2001).

Clinical significance of molecular genetic profiles of endometrial cancer. *Bapat B: Concern Foundation* (\$100,000 2000 - 2002).

Clinical trial of raloxifen use in the heart (RUTH). *Cheung A, Stewart DE, Liu P, Abramson B: Eli Lilly* (\$500,000 1998 - 2003).

Co-operative family registry for epidemiologic studies of colon cancer. *Gallinger S, Holowaty E, Andrulis I, Bapat B, Boyd N, Redston M, Darlington G, Kreiger N, Knight J, Theis B, Chart P, Gardner A, Goel V, Malkin D, McKeown-Eyssen G, McLaughlin J: National Institutes of Health* (\$3,200,000 1997 - 2001).

Course of osteoarthritis (OA): a multidisciplinary programmatic proposal to measure the trajectory of OA. *Badley E., Davis A, Gignac M, Mahomed N, Fortin P, Hawler G: Canadian Arthritis Network* (\$112,500 2001 - 2002).

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).

Cytokines and oxygen free radicals. *Slutsky AS, Zhang H: Plasma Protein Therapeutics Association (PPTA)* (\$42,763 2001 - 2002).

Developing and operating an internet-based interactive genetics service to health care providers in Ontario. *Wyatt P, Pritzker KPH: The Change Foundation* (\$1,000,000 2000 - 2002).

Development of antimicrobial coatings for peritoneal catheters suitable for simultaneous exchange. *Khoury AE., Burrows L, DiCosmo F: Kidney Foundation of Canada* (\$144,132 2002 - 2004).



Disability outcome following revision total knee arthroplasty. *Davis A., Mahomed N, Davey R, Schemitsch E, Kreder H, Garbuz D, McDonald S, Gross AE, Szalai JP, Gignac M: Canadian Institutes of Health Research* (\$68,345 2001 - 2004).

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).

Establishment of an advanced biomaterials and regenerative surgery research unit in the dental research institute. *Davies JE, Heersche J, Clokie C, Deporter DA, Pilliar RM: Ontario Research and Development Challenge Fund* (\$812,525 1999 - 2003).

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).

Glomerular procoagulant activity in murine lupus nephritis. *Cole EH, Levy GA: Kidney Foundation* (\$120,000 1998 - 2001).

How are you now? Testing a model of recovery from patient's perspective one year after traumatic fracture of an extremity. *Beaton D, Davis A, Franche RL, Kreder H, Gignac M, Devins G, Schemitsch E: Canadian Institutes of Health Research* (\$145,730 2002 - 2004).

Immunopathogenesis of viral hepatitis. *Levy GA, Clark DA: Canadian Institutes of Health Research* (\$186,419 2000 - 2005).

Ischemic pre-conditioning of the myocardium: Role of chloride channels. *Wilson GJ, Backx PH: Heart and Stroke Foundation* (\$315,772 1997 - 2002).

Mechanisms of traumatic brain injury: excitotoxicity and energy metabolism. *Tian G-F, Baker AJ: Ontario Neurotrauma Foundation, National Rick Hansen Neurotrauma Initiative* (\$238,200 2000 - 2003).

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).

Needs of refugee mothers after pregnancy (NORMAP-ERS) Phase 1. *Gagnon AJ, Oxman-Martines J, Stewart DE: Canadian Institutes for Health Research* (\$235,229 2002 - 2003).

Non-collagenous protein binding to crystal surfaces in the theme of cellular and molecular biology of joint tissues. *Goldberg H, Grynepas M, Hunter G, McKee M, Sodek J: Canadian Arthritis Network* (\$27,000 2000 - 2001).

Novel biodegradable implants for anchorage of tissue engineered fibrocartilage to bone. *Pilliar RM, Grynepas MD, Kandel R: Natural Sciences and Engineering Research Council* (\$784,000 1997 - 2001).

Ontario rehabilitation technology consortium. *Milner MM, Fernie GR, Jamieson D, Naumann S, Olney S, Ryan S, Strong G, Shein F: Ministry of Health* (\$15,000,000 1992 - 2002).

POGO operating grant for Centre of Comprehensive Research in Childhood Cancer. *Greenberg C, Barr R, Greenberg M: Ministry of Health* (\$600,000 1997 - 2003).

Predictors of outcome following revision total hip arthroplasty. *Davis AM, Gross AE., Badley E, Davey R, Gafni A, Gollish J, Kreder H, Saleh K, Mahomed N, Schemitsch E, Szalai JP, Waddell J: The Arthritis Society* (\$184,000 2001 - 2004).

Preferred role of people with HIV and AIDS in treatment decision making. *Deber R, Halman M, Millson P, Meyers T, Stewart D, Urowitz S, Walmsley S, Bauman A: Ontario HIV Treatment Network* (\$152,000 1999 - 2001).

Prevention of delayed cardiac xenograft rejection by modulation of the potent fg12 prothrombinase gene. *Grant D, Gordzynsky R, Levy G, Phillips MJ: Heart and Stroke Foundation of Canada* (\$131,000 2000 - 2002).

Randomised controlled trial of inpatients vs. home-based rehabilitation following primary total hip and knee arthroplasty: Two year follow-up. *Mahomed N., Badley E, Fried S, Coyte P, Davis A, Jaglal S, Hawker G, Naglie G, Wright J: Physicians' Services Incorporated Foundation* (\$47,000 2001 - 2002).

Randomized controlled trial of inpatient vs. home-based rehabilitation following primary total hip and knee arthroplasty. *Mahomed N., Badley E, Fried S, Coyte P, Davis A, Jaglal S, Hawker G, Naglie G, Wright J: Physicians' Services Incorporated Foundation* (\$65,000 2001 - 2002).

Recombinant peptides for promotion and inhibition of mineralization in the theme of cellular and molecular biology of joint tissues. *Goldberg H, Grynypas M, Hunter G, McKee M, Sodek J: Canadian Arthritis Network* (\$27,000 2000 - 2001).

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).

Role of glial AMPA/kainate receptors in traumatic CHS white matter injury. *Fehlings MG, Zhang L, Eubanks J, Carlen P, Gurd J, Baker AJ: Medical Research Council of Canada/Canadian Neurotrauma Research Program, Partnership Programme, Ontario Neurotrauma Foundation* (\$279,000 1999 - 2002).

Role of glial AMPA/kainate receptors in traumatic CNS white matter injury. *Fehlings MG, Zhang L, Eubanks J, Carlen P, Gurd J, Baker AJ: Medical Research Council of Canada/Ontario Neurotrauma Foundation* (\$279,000 1999 - 2002).

Role of the mGluR1 metabotropic glutamate receptors in the pathophysiology of central nervous system trauma. *Fehlings MG, Baker AJ: Ontario Neurotrauma Foundation, National Rick Hansen Neurotrauma Initiative* (\$163,300 2000 - 2003).

Significance of modifier genes in alternative genetic pathways of colon cancer development. *Bapat B, Knight J: Canadian Institutes of Health Research (CIHR)* (\$301,527 2001 - 2004).

Structure-function analysis of the APC tumor protein. *Bapat B, Hannigan G: Medical Research Council of Canada* (\$301,374 1999 - 2002).

The cumulative effects of ingested fluoride on bone quality. *Grynypas M, Pritzker KPH: Medical Research Council of Canada* (\$246,900 2000 - 2003).

The effects of the HMG-CoA reductase inhibitor, lovastatin, on recurrent and pre-malignant lesions of the head and neck. *Kamel-Reid S., Dimitroulakos J, Knox J, Siu L, Irish J, Gullane P, Moore M, Yeger Y, MacMillan C: Princess Margaret Hospital Foundation* (\$432,760 1999 - 2002).

The role of susceptibility genes and dietary risk factors in the etiology of mutator versus suppressor pathway of colon cancer. *Bapat B, Knight J: American Institute of Cancer Research* (\$83,350 2000 - 2002).

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).

The use of community newspaper to promote breast cancer screening among South Asian women. *Stewart DE, Ahmad F: Ontario Breast Cancer Foundation* (\$34,000 2000 - 2003).

Three dimensional polymer matrices for bone tissue engineering. *Davies JE, Shoichet MS: BoneTec Corporation* (\$112,774 1998 - 2004).

## **HONOURS RECEIVED**

**Davies JE:** Clemson Award for Basic Research, April 2002.



## **Emergency Medicine**

**Dr. P. A. Arnold – Assistant Professor (University Health Network)**

**Dr. Alan Campbell – Assistant Professor (St. Michael's Hospital)**

**Dr. Andrew Donald – Assistant Professor (Sunnybrook & Women's College Health Sciences Centre)**

**Dr. J.C. Fallis – Assistant Professor (The Hospital for Sick Children)**

**Dr. L. Fulton – Lecturer (Sunnybrook & Women's College Health Sciences Centre)**

**Dr. B. A. McLellan – Associate Professor (Sunnybrook & Women's College Health Sciences Centre)**

**Dr. D. Saslove – Instructor (St. Michael's Hospital)**

**Dr. Brian Steinhart – Instructor (St. Michael's Hospital)**

No submissions available for 2001-2002.