CHAIR’S COMMENT

The highlights of our year were provided by our investigators. The US military is making use of Joe Fisher’s expertise in making light-weight oxygen therapy and breathing devices. Greg Hare won the most prestigious of the CAS Awards - CAS Career Scientist Award.

The proudest moment of the year was to celebrate Bev Orser’s Canadian Research Chair. This is the first CRC chair awarded to a practising anesthesiologist and just reward for her outstanding on-going contributions to the understanding of the mechanism of anesthesia.

The strength of the University of Toronto Department of Anesthesia Research lies in its depth and breadth. Topics ranged from neonatal critical care, to pain management in adults and children, and basic neuroscience to obstetric and cardiac anesthesia. In most of those fields our investigators are recognized international experts. Our investigators published more than 170 peer-reviewed manuscripts. Half of the manuscripts were published in non-anesthesia journals. More than 50 faculty were invited to speak outside the city on their subjects.

Major peer-reviewed funding continued to increase to approximately $4m, excluding military contracts. In addition to the Clinician Scientist Award to Dr. Duminda Wijeysundera, other awards were won in neuroscience (Wei-Yang Lu and Beverley Orser), basic pulmonary research (Haibo Zhang), lung injury (David Mazer), blood conservation (Keyvan Karkouti), cerebral hypoxia gene expression (Greg Hare), pediatric critical care (Brian Kavanagh), simulation (Pamela Morgan and Viren Naik), surgical outcomes (Scott Beattie) and pain (Lucia Gagliese) amongst many others. The total amount of Research funding from all sources exceeds $9m.

After several years of decline, recruitment to academic positions is beginning to improve. As a result of Alternate Funding Plans and greater awareness and interest in academic activity all hospitals have more staff than that one year ago. Clinical/Research Fellows influence our ability to provide clinical service and academic activity. Many of our IMG fellows stay. Of 26 new staff at UHN/Mount Sinai since 2000, 14 have academic registration with the CPSO in the IMG Assistant Professor program.

As usual, the faculty was successful at the CAS meeting in research grants awarded, prizes won and for the quality of their presentations:

CAS Career Scientist Award in Anesthesia and Perioperative Medicine
Dr. Greg Hare – St. Michael’s Hospital ($270,000).

CAS Research Award
Dr. Duminda Wijeysundera – UHN
The academic future of the University of Toronto Department Of Anesthesia appears to be assured. There is a steady growth in academic activity, as reflected by grant awards and publications in peer-reviewed journals. However, this must be placed in the context of a world-wide shortage in anesthesiologists. In such an environment, the pressure to provide clinical service at the expense of academic activity is considerable. However, our argument is that it is by building a thriving and satisfying academic environment that young specialists are attracted to University Departments. Our achievements surpass those of almost all Departments of Anesthesiology in Canada and the USA. However, they pale in comparison with specialties such as Internal Medicine, Surgery, Psychiatry and Laboratory Medicine. Our goal, with regard to grant awards, should be to increase the real value of the competitive awards received by 20% per annum. Secondly, we need to continue with our education programs particularly those involving the newer technology utilizing high fidelity simulators. Our investigators at Sunnybrook (Pamela Morgan) and St. Michael’s Hospital (Viren Naik) are making innovative discoveries that will affect the training of all physicians. A particularly interesting component of their activity is in the study of personnel interaction in the avoidance of errors and to facilitate safe practice. Finally, we should remember our clinical role in providing safe intra-operative care and perioperative analgesia. If we remember our role, we will ensure that our education and research activities have the proper perspective.

David R. Bevan
Professor and Chair
# ANESTHESIA FELLOWS 2004/2005

## The Hospital for Sick Children

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AWARDS AND ACHIEVEMENTS

DEPARTMENTAL AWARDS

The Thomas Donald Hammell Memorial Award in Anaesthesia
For making the greatest contribution to the residency program (as chosen by the other residents)
1994 Basem Naser
1995 Chong Chow
1996 Cameron Guest
1997 Robert Chen
1998 Rassamee Ling
1999 Naseer Baig
2000 Brian Nishimura
2001 Elaine Ng
2002 Viren Naik
2003 Trisha Mark
2004 Shawn Mawhinney
2005 Susan French

The Dr. John Desmond Award
For excellence in undergraduate teaching
1994 Christina Benedict
1995 Pam Morgan
1996 Isabella Devito
1997 Irene McGhee
1998 Ron Crago
1999 Susan Bertram
2000 John Bradley
2001 Carmencita Castro
2002 Hal Braden
2003 Beverly Morningstar
2004 Dragan Djordjevic
2005 Jordan Tarshis
The Dr. Gerald Edelist Award
For excellence in postgraduate teaching
1995  Alan Laws (posthumous)
1996  Chiddam Ananthanarayan
1997  Patricia Houston
1998  Irene McGhee
1999  Robert Creighton
2000  Joseph Kay
2001  Ronald Crago
2002  Marianne Graham
2003  Mark Levine
2004  Mary Ellen Cooke
2005  David J. McKnight

The Hynek Rothbart Award
For presenting the best paper at the Shields Research Day
1994  Karen McRae
1995  Brendan O’Hare
1996  Robert Chen
1997  Daisy Ip
1998  Frank Reinders
1999  John Laffey
2000  John Emery
2001  Viren Naik
2002  Anahi Perlas
2003  Not awarded
2004  Eric-You Ten
2005  Denis Rohan

Dr. Alan K. Laws Clinician Scientist Fellowship
To provide salary support for a resident who undertakes graduate level training in a related field.
2002  Duminda Wijeysundera
2003  Jens Tan
2004  Antoine Pronovost/Timothy Welke
2005  Dov Weiss
Dr. Alan K. Laws Travel Award
Awarded annually to provide support and encouragement for a senior resident in the Department of Anaesthesia to further their academic interests by traveling to a foreign site to experience anesthesia as practised elsewhere.
1996  Philip Peng
1997  Stephane Lambert
1998  Hwan Joo
1999  Rosaleen Chun
2000  Harald Bettger
2001  Carol Loffelmann
2002  Teddy Lim
2003  Trisha Mark
2004  Richard Brull
2005  Alan Chaput

Dr. Alan W. Conn Graduate Award
Awarded to a post-graduate trainee registered in a Master’s or Ph.D. degree program.
2005  Anton Marinov

The Dr. Evelyn Bateman Award
For excellence in anaesthesia at the undergraduate level
1994  Desmond Lam
1995  Laura Hopkins
1996  Carol Loffelmann
1997  Ursula Jurt
1998  Shawn Mawhinney
1999  Jens Looser
2000  Gordon Buduhan
2001  Renee Allard
2002  Julie Lajoie
2003  Hance Clarke
2004  Nicholas Lo
2005  Kevin Lai
FACULTY TEACHING AWARDS

Lisa Bahrey  Wightman-Berris Academy Undergraduate Teaching Award

HOSPITAL TEACHING AWARDS

Mark Levine  Hospital for Sick Children Award for Excellence in Clinical Teaching
Abraham Katz  St. Michael’s Dr.A.J. Dunn Award for Undergraduate Education
Brian Pollard  St. Michael’s Dr.A.J. Dunn Award for Postgraduate Education
Marianne Graham  SWCSHC the ‘Bob Mackenzie” Clinical Teacher’s Awarded

NATIONAL AND INTERNATIONAL AWARDS

Jose Carvalho  Board of Directors, SOAP, for a two year term
Mark Crawford  Editorial Advisory Board of Pediatric Anesthesia, July 2004.
Joseph Fisher  Innovation Research Award, 1st Prize
Alejandro Jadad  Special SOMOS Award (the Canadian Latin Achievement Award).
Keyvan Karkouti  Dr. Earl Wynands Research Award in Cardiovascular Anesthesia
Anita Sarmah  Award for the best abstract in the field of Ambulatory Anesthesia, CAS 2005
Peter Slinger  Bernard H. Eliasberg Medal, Mount Sinai School of Medicine, New York
STUDENT AWARDS AND ACHIEVEMENTS

Victor Cheng
The Institute of Medical Science Continuing Award
(Supervisor: Dr. Beverley Orser)

Shields Research Prize, Department of Anesthesia, University of Toronto

Mary Chiu
Ontario Graduate Scholarship (OGS) 2004. (Supervisor: Dr. Beverley Orser)
Ontario Graduate Scholarship (OGS) 2005
University of Toronto Open Fellowship
Greater Toronto Area Chinese Culture Center Leadership Award

Loren Martin
(Ph.D. candidate) Savoy Foundation Studentship 2005-06
(Supervisor: Dr. Beverley Orser)
The Institute of Medical Sciences Entry Award
Ontario Graduate Scholarship (OGS) – declined

Eitan Prisman
George Brown Award for best poster presentation in Clinical Science, 19th Medical Student Research Day (Supervisor: Dr. Joseph Fisher)

Mughina Siddiqui
Fellow, Mount Sinai Hospital, won the Fred Zuspan Award, SOAP 2005

Duminda Wijeysundera
Clinician Scientist Graduate Program Award
DEPARTMENT COUNCIL

Department Council is chaired by the Chair, Department of Anesthesia. Membership comprises the Anesthetists-in-Chief of each affiliated hospital, and the Chairs of the Research, Postgraduate, Undergraduate and Continuing Education Committees. The terms of reference are to:

- advise the Chair on departmental policies;
- participate in long-range academic planning;
- review issues of current concern to the department and the practice of anaesthesia;
- receive and implement reports from the committees on education and research.

Chair: David Bevan

Anesthetists-in-Chief:  
David Bevan  UHN/Mount Sinai Hospital  
Gil Faclier  Sunnybrook and Women’s College Health Sciences Centre  
Patricia Houston  St. Michael’s Hospital  
Emily Mosher  Toronto East General Hospital  
Lawrence Roy  Hospital for Sick Children

Deputy Chiefs:  
Sue Belo  Orthopaedic & Arthritic Hospital  
Gordon Fox  Mount Sinai Hospital  
Jean Kronberg  Women's College Site  
Jacob Lai  Toronto Western Hospital  
Gerald O’Leary  Toronto General Hospital  
Doreen Yee  Sunnybrook and Women’s College Health Sciences Centre
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<td align="left">Gordon Fox</td>
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The Undergraduate Education Committee of the Department of Anaesthesia is composed of the Chair, the Clerkship Course Director, representatives from each of the teaching hospitals, and a third and fourth year student representative. The Chair of the Department of Anaesthesia and the Vice-Chair, Education are also committee members. The full committee meets monthly and manages all aspects of undergraduate teaching involving the University Department of Anaesthesia.

Challenges we face are continuing decreases in the length of our rotation related to a 2-week break for CARMs interviews. This affects our already short rotation (of 2-weeks duration) causing the rotations after January to be shortened to 7-8 days. This provides challenges for both students and faculty. In addition, the anesthesia/emergency rotation is not offered in Block 1 of Phase II clerkship in order to allow students time to have electives prior to making their postgraduate course selections. This results in an increased number of medical students in the remaining blocks.
**PRE-CLERKSHIP**

Members of each hospital department are involved in teaching courses in first and second year. This involvement includes tutoring in the Art and Science of Clinical Medicine years I and II, Foundations of Medical Practice, and Structure and Function courses.

**Pre-Clerkship Lectures**
Dr. S. Belo  
Dr. R. Chen  
Dr. J. Wasserman

**ASCM I Course Director**
Dr. John Bradley  UHN-Toronto General

**ASCM I Tutors**
Dr. Lisa Bahrey  UHN-Toronto General  
Dr. Jennifer Brunton  UHN – Toronto Western  
Dr. W. Demajo  UHN – Toronto General  
Dr. V. Hughes  St. Michael’s Hospital  
Dr. Viren Naik  St. Michael's Hospital

**ASCM II Tutors**
Pat McNama

**Determinants of Community Health (DOCH) Year 2: Academy Course Supervisors**
Dr. J. Bradley  UHN-Toronto General  
Dr. F. Chung  UHN- Toronto Western

**Problem Based Learning Tutors: Structure and Function, Foundations of Medical Practice**
Dr. S. Abrahmson  St. Michael's Hospital  
Dr. R. Barlow  Hospital for Sick Children  
Dr. M. Chochinov  Sunnybrook & Women's College HSC-Sunnybrook Campus  
Dr. K. Cybulski  Hospital for Sick Children  
Dr. I. Devito  UHN: Mount Sinai  
Dr. L. Eisen  UHN: Mount Sinai  
Dr. C. Grant  Hospital for Sick Children  
Dr. L. Isaac  Hospital for Sick Children  
Dr. A. Lee  UHN: Toronto General  
Dr. K. Lin  St. Michael’s Hospital  
Dr. L. Roy  Hospital for Sick Children  
Dr. M. Vandervyver  Sunnybrook & Women's College HSC-Women's College Campus  
Dr. S. Wong  Sunnybrook & Women's College HSC-Sunnybrook Campus  
Dr. A. Van Rensburg  UHN - Toronto Western  
Dr.R. Crago  UHN - Toronto Western  
Dr.W. Demajo  UHN - Toronto General  
Dr.B. Middleton  UHN – Toronto Western
Foundations of Medical Practice Seminar Leaders
Dr. R. Chen  St. Michael's Hospital
Dr. M. Chochinov  Sunnybrook & Women's College HSC-Sunnybrook Campus
Dr. D. Cole  UHN: Mount Sinai
Dr. R. Crago  UHN: Toronto Western
Dr. S. Davies  UHN: Mount Sinai
Dr. M. Graham  Sunnybrook & Women's College HSC-Sunnybrook Campus
Dr. K. Lin  St. Michael's Hospital
Dr. W. Middleton  UHN: Toronto Western
Dr. A. Morgan  Sunnybrook & Women's College HSC-Women's College Campus
Dr. V. Naik  St. Michael's Hospital

Wightman-Berris Academy Director
Dr. J. Bradley  UHN-Toronto General

The 8th Anaesthesia Information Evening for medical students was held in November 2004 under the leadership of Dr. I. Devito with the help of our third year medical student representative, Ben-Ari Fried. There were representatives from faculty involved in research, intensive care, regional anaesthesia, pain management, and education. Representatives from the post-graduate years were present including those involved in research programs. This was a very successful evening- again!

Clerkship
Anaesthesia and Emergency Medicine share a six-week block in the fourth year clerkship. There are three two-week anaesthesia rotations within each six-week block (six blocks in total). The fourth year clinical clerks are evaluated both on their clinical performance and by a written on-line examination which occurs in the computer laboratory at the medical school. Two hospital coordinators mark the written examination centrally. Anaesthesia staff at all teaching hospitals receive evaluations of their operating room teaching and their performance in seminars. Four seminars are given during each two-week rotation. Students complete on-line course and faculty evaluations immediately after their written examination.

Simulator Education Day
During the academic year, all final year medical students participated in the Simulator Educational Day at the Canadian Simulation Centre for Human Performance and Crisis Management Training at Sunnybrook & Women’s College Health Sciences Centre. The focus this year was on procedural skills training in response to a needs assessment. Students do not feel that they are receiving adequate procedural skills training and therefore we purchased 3 part-task simulators and set up a program with 5 stations. The stations included simulators to allow: 1) intravenous catheter insertion 2) LMA insertion 3) bag and mask ventilation, endotracheal intubation 4) monitoring including pulse oximetry and capnography and 5) high-fidelity patient scenario. All stations had associated learning objectives. Facilitators were present to assist students in achievement of the learning objectives.
Electives
Many first and second year U of T medical students have arranged non-credited elective time with specific staff. Pre-clerkship medical students also arrange summer elective experiences in our departments, and many are involved in summer research projects.

CLERKSHIP SEMINAR LEADERS

| Dr. P. Angle | Dr. V. Hughes | Dr. A. Sarmah |
| Dr. L. Bahrey | Dr. M. Jariani | Dr. Y. Suntheralingam |
| Dr. H. Chan | Dr. J. Kay | Dr. J. Tarshis |
| Dr. V. Chan | Dr. R. Ko | Dr. J. Teresi |
| Dr. M. Chochinov | Dr. J. Kronberg | Dr. P. Tumber |
| Dr. E Cooke | Dr. A. Lee | Dr. M. Vandervyver |
| Dr. S. Davies | Dr. M. Levene | Dr. J. Wasserman |
| Dr. I. Devito | Dr. K. Lin | Dr. Z. Friedman |
| Dr. D. Djordjevic | Dr. A. Morgan |
| Dr. E. Goldszmidt | Dr. V. Naik |
| Dr. A. Ho | Dr. B. Pollard |
| Dr. P. Houston | Dr. D. Riegert |

CLERKSHIP SIMULATOR TEACHING

FACULTY
Dr. I. Devito
Dr. D. Djordjevic
Dr. R. Ko
Dr. K. Lin
Dr. P. Morgan
Dr. J. Robertson
Dr. A. Sarmah
Dr. P. Tumber

RESIDENTS
Dr. J. Agellon
Dr. R. Coombes
Dr. C. Idestrup
Dr. D. Irwin
Dr. N. Malik
Dr. R. Yue
POSTGRADUATE EDUCATION COMMITTEE

Program Director and PGEC Chair: Dr. M. F. Levine

Program Coordinators:

- Dr. W. Middleton, Toronto Western Hospital
- Dr. S. Halpern, Sunnybrook & Women’s HSC – Women’s College Site
- Dr. H. Fischer, Mount Sinai Hospital
- Dr. H. Lee, Toronto East General Hospital
- Dr. E. Ng, Hospital for Sick Children
- Dr. I. McGhee, Sunnybrook & Women’s HSC – Sunnybrook Site
- Dr. P. Murphy, Toronto General Hospital
- Dr. J. Wassermann, St. Michael’s Hospital

Department Chair: Dr. David Bevan

Curriculum & Exams, Chair Education committee: Dr. P. Houston

Anesthesia Simulator: Dr. V. Naik

Education Committee UHN Dr. I. Devito

Resident Counsellors: Dr. B. Morningstar
Dr. D. Rieger

Residents:
- PG1 Dr. Katherine Ryans
- PG2 Dr. Hance Clarke
- PG3 Dr. Diana Tamir
- PG4 Dr. Dr. Kelly Chatterton
- PG5 Dr. Robin Coombes

Research Committee Chair: Dr. David Mazer

Program Assistant: Ms. K. Bailey

At the end of June 2004, Dr. David McKnight stepped down after 15 years as Program Director and Chair of the Postgraduate Education Committee. We would like to thank Dr. McKnight for his commitment and dedication in molding the program into the successful program that it is today.

The Postgraduate Education Committee of the Department of Anaesthesia is composed of the Chair of the Department, Program Coordinators in charge of the teaching program at
Each hospital, the Resident Counsellors, the Director of Education from the University Health Network, The Chair of the Education committee, the director of the simulator centre, the Chair of the Research Committee, one resident member from each of the PG year levels (elected by peers) and the Program Assistant. It is chaired by the Program Director. The Committee meets monthly to oversee all aspects of the training program in anaesthesia. Its responsibilities include selection, evaluation, and promotion of residents, and the design, operation, and evaluation of the teaching program.

In the 2004 – 2005 year, two candidates were evaluated through the Assessment Program for International Medical Graduates (APIMG). Both of these candidates were found to be ready for immediate practice and have entered practice in underserviced areas in Ontario.

In the annual CaRMS Match, we continued our format of major interview days with multiple interviewers and interviewed a total of 66 candidates. This year we assigned two of the 14 available positions to the newly designated Clinician Investigator Stream. These positions were not filled but we were able to fill all 14 positions with good applicants from the regular stream. We also enrolled two Ontario International Medical Graduate Program residents and two new foreign funded residents from Saudi Arabia.

The Fellowship Program continues to be very active. There were 75 fellows from 24 countries in 2004–2005.

Expansion of the regional anesthesia service at the Orthopedic and Arthritic hospital has enabled us to offer expanded experience in regional anesthesia to all residents in the program.

In October 2004, a research day was held to introduce the PG 1 and PG 2 residents to some of the prominent researchers in the department and to the scope of research carried out in the department. The presentations were dynamic and varied and exposed residents to all aspects of life as a researcher.

A number of residents completed additional degrees in the past year. Dr. Alan Chaput completed a Masters in Epidemiology and has presented his work at a number of meetings, Dr. Jens Tan completed a Masters of Education with a particular focus on Knowledge Translation and Dr. Antoine Pronovost completed a Masters in Business Administration.

The annual Shields Anesthesia Research Day was held on Friday, May 6, 2005 at the Metro Convention Centre. The Shields Lecture, “Intellectual Property, A Personal Perspective” was delivered by Dr. Orlando Hung from Dalhousie University, Halifax, Nova Scotia.
The following awards were presented at the 2005 Shields Day:

- The Hynek Rothbart Award: Dr. Denis Rohan
- The Award for best presentation: Victor Cheng for his presentation: “The role of tonic GABAergic inhibition in learning and memory.”
- The Thomas Donald Hammel Award: Dr. Susan French
- The Alan K. Laws Travel Award: Dr. Alan Chaput
- The Dr. John Desmond Award: Dr. Dr. Jordan Tarshis
- The Dr. Gerald Edelist Award: Dr. David McKnight

In 2005, all the residents from our program were successful at the Royal College oral examinations. Congratulations to these residents who are now certified as specialists in anaesthesia.
# ANESTHESIA RESIDENTS 2004-2005

<table>
<thead>
<tr>
<th>PGY1</th>
<th>Ahn, Richard</th>
<th>Au-Yeung, Elizabeth</th>
<th>Borden, Andrew</th>
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<tr>
<td></td>
<td>Chang, Alvin</td>
<td>Coutinho, Christopher</td>
<td>Donnelly, Thomas</td>
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<td></td>
<td>Fourie, Ockert</td>
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<td>Joshi, Mital</td>
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<td></td>
<td>Lo, Nicholas</td>
<td>Riazi, Shieka</td>
<td>Ryans, Katharine</td>
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<td></td>
<td>Simmons, Collan</td>
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<tr>
<th>PGY2</th>
<th>Al Ali Raed</th>
<th>Al Sayegh, Yasser</th>
<th>Bernstein, Steven</th>
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<tr>
<td></td>
<td>Brunton, Jennifer</td>
<td>Clarke, Hance</td>
<td>Darani, Rosemin</td>
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<td></td>
<td>Darby, Peter</td>
<td>Hrdina, Josef</td>
<td>Kim, Catherine</td>
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<td></td>
<td>Li, Alyssa</td>
<td>Ko, Samuel</td>
<td>Ligori, Tania</td>
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<td></td>
<td>Marinov, Anton</td>
<td>Marwaha, Jasvir</td>
<td>Samuel, Daniella</td>
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<td></td>
<td>Simms, Kathryn</td>
<td>Weiss, Dov</td>
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<tr>
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<th>Abbass, Ali Akbar</th>
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<td></td>
<td>Alqasim, Rashad</td>
<td>Bloom, Michael</td>
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<td>Ford, Meredith</td>
<td>Grossi, Danny</td>
<td>Kong, Jonathan</td>
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<td>Kumar, Rohit</td>
<td>Lee, Hoi Kwan</td>
<td>McHardy, Paul</td>
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<td>Tamir, Diana</td>
<td>Welke, Timothy</td>
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<th>PGY4</th>
<th>Al Atassi, Abdulaleem</th>
<th>Bachler, Tony</th>
<th>Chapat, Alan</th>
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<tr>
<td></td>
<td>Chatterson, Kelly</td>
<td>Gislason, Rachel</td>
<td>Hakim, Sania</td>
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<td></td>
<td>Heier, Krista</td>
<td>Kealey, Alayne</td>
<td>Malik, Nariman</td>
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<td>Pronovost, Antoine</td>
<td>Rucker, Joshua</td>
<td>Salman, Aliya</td>
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<td>Tan, Jens</td>
<td>Tibbet, Juliana</td>
<td>Yudin, Mark</td>
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<td>Yue, Randy</td>
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<th>Abraham, Alan</th>
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<td></td>
<td>Coombes, Robin</td>
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<td></td>
<td>Hick, Anthony</td>
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<td>Irwin, Darryl</td>
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<td>Jamensky, Neil</td>
<td>Jin, Fengling</td>
<td>Railton, Craig</td>
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<td></td>
<td>Sarjeant, Jennifer</td>
<td>Singh, Dave</td>
<td>Tanaka, Steven</td>
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<td></td>
<td>Vora, Harish</td>
<td>Vuckovic Dejan</td>
<td>Wijeysundera, Duminda</td>
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<tr>
<td></td>
<td>You-Ten, Eric</td>
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</table>

| FP Anesthesia | Ali, Fahim           | Easo, Jamie           | Yang, Malissa       |
The Research Committee places a high priority on research education in the University of Toronto fellowship training program. To this end, a series of graduate level seminars on statistics, research design and research related computer skills was organized. The Research Committee is particularly grateful to the following individuals for teaching the following subjects.

**November 10, 2004**
- Computer Literature Search 1
  - Ms. E. Uleryk

**November 17, 2004**
- Computer Literature Search 2
  - Ms. E. Uleryk

**November 24, 2004**
- Bibliographic Software Management Systems
  - Ms. Adams-Webber

**December 1, 2004**
- Critical Appraisal
  - Dr. Stephen Halpern

**December 8, 2004**
- Databases, Handling data
  - Dr. Guy Petroz

**December 15, 2004**
- Issues in Informed Consent
  - Dr. David McKnight

**January 12, 2005**
- Randomized Clinical Trials, Hypothesis Testing
  - Dr. Patricia McGrath

**January 19, 2005**
- Systematic Reviews
  - Dr. Patricia McGrath

**January 26, 2005**
- Measurement scales, Types of Data
  - Ms. Nancy Sikich

**February 2, 2005**
- Statistics 1: Tests for Parametric data: two groups
  - Dr. Mark Crawford

**February 9, 2005**
- Statistics 2: Sample Size and Power Analysis
  - Dr. M. Crawford

**February 16, 2005**
- Statistics 3: Confidence Intervals
  - Dr. M. Crawford
February 23, 2005  Statistics 4: Tests for Nominal Data  
Dr. M. Crawford

March 2  Statistics 5: ANOVA 1  
Dr. H. El-Beheiry

March 9, 2005  Statistics 6: ANOVA 2  
Dr. H. El-Beheiry

March 23, 2005  Statistics 7: Linear Regression, Correlation  
Dr. H. El-Beheiry

March 30, 2005  Statistics 8: Logistic regression, Multivariate Analysis  
Dr. H. El-Beheiry

April 6, 2005  Statistics 9: Tests for Ordinal Data  
Dr. M. Crawford

April 13, 2005  Statistics 10: Statistical Software  
Dr. Guy Petroz

April 20, 2005  Slide Making (Powerpoint)  
Dr. Annette Vegas

April 27, 2005  Authorship  
Dr. Bruno Bissonnette

May 4, 2005  Pitfalls in Writing Scientific Manuscripts  
Dr. David Bevan

May 11, 2005  How to get your Paper Published  
Dr. Frances Chung

May 18, 2005  Relationships with Pharmaceutical Companies  
Dr. Robert Byrick

May 25, 2005  Scientific Misconduct  
Dr. David McKnight

June 1, 2005  Setting up a Research Laboratory  
Dr. Daisy Joo

June 8, 2005  How to get money for your research – Tips in writing grants
THE CLINICIAN-SCIENTIST STREAM

The Department of Anesthesia at the University of Toronto is recognized for its excellent postgraduate clinical training program. The teachers in the department are committed to training residents towards a broad range of career goals in both academic and community practice. These objectives are achieved through the strong commitment to education, excellent research training opportunities and exposure to a wide variety of clinical practice. The education of future academic anaesthetists is an important mission of the department and the clinician-scientist stream has been established as an opportunity to further this goal in the residency.

Goals:
- provide a small group of residents with fundamental training in research methodology
- foster critical thinking in a research environment of the highest quality
- prepare anesthesia trainees for careers as independent investigators in academic departments
- provide an opportunity for residents to contribute to the expansion of the fundamental understanding of anesthesia
- attain the above objectives in the context of excellent clinical training

The clinician-scientist stream is a component of the postgraduate training programme in Anesthesia. Potential participants are identified and recruited into the program during their PGY1 or PGY2 years of training. Residents commit at the outset to a minimum of two years of research during their residency. The trainee is registered in the University of Toronto Institute of Medical Sciences (or equivalent) in an MSc or PhD program. One year of this research training counts toward the Royal College requirements in Anesthesia.

The laboratory or area of interest in which the resident will work is selected during the PGY2 clinical year, after discussion with investigators from various disciplines. Residents in the Clinician-Scientist stream can start their research experience after the PGY2 year and complete clinical training following the research period.

Research Programmes:
Research interests of residents undertaking graduate research can include any of the following:

- molecular basis of anesthesia
- clinical pharmacology
- clinical epidemiology/outcomes research
- neurophysiology
- cardiovascular and cardiopulmonary physiology
- pain research
- research in education
**Application to the Clinician-Scientist Stream:**
Residents in the anesthesia program who wish to prepare for an academic research career are invited to apply for the Clinician-Scientist stream through the office of the Program Director. Each year funding is available for a maximum of two residents to participate in the Clinician-Scientist stream through the Alan K. Laws Clinician Scientist Fellowship.

**Dr. Alan K. Laws Clinician-Scientist Fellowship Award**
The Laws Fellowship will provide salary support for graduate student training (1-2 years). The recipient, where appropriate, will be registered in the Clinician Investigator Program (CIP) of the Royal College of Physicians and Surgeons of Canada. He/she will be an anesthesia resident or junior fellow (1-2 years after completing postgraduate training in anesthesia).

Candidates for this fellowship will be clinical anesthetists enrolled in a graduate program at the University of Toronto. If the successful candidate holds a PhD prior to anesthesia training, enrolment in the CIP will be sufficient.

The candidate will have a faculty supervisor approved by the Chair of the Department of Anesthesia, and the Graduate School Program in which he/she is enrolled.

The successful applicant must be accepted into the graduate program prior to applying for the Laws Fellowship.

Part of holding the award will include travel outside Canada at least once during the fellowship. The purpose is to experience anesthesia/research relevant to their field of interest. The term of travel should not exceed four weeks and expenses will be reimbursed from the fellowship.

After completing the fellowship, the recipient will present his/her work to members of the Department.
Dr. Alan Laws was born in Warwick, Australia and graduated as the gold medallist from the University of Queensland in 1961.

He undertook anesthesia training in England and moved to Toronto in 1966 as a Research Fellow, working with Dr. Barrie Fairley, a clinical anesthetist at the Toronto General Hospital. As a clinician-scientist, he studied the effects of anesthesia on respiratory mechanics.

Alan had an intense interest in teaching, especially at the postgraduate level. He held morning trouble rounds that became a model for other hospitals. He became very involved in the examination process and was Chair of the Royal College Written Test Committee from 1977-88 and was Chief Examiner in Anesthesia from 1980-87. Under his leadership, the examinations became more clinically oriented, a process that has continued to this day.

Alan demonstrated an exceptional intellect and insight into clinical medicine, as well as the ability to impart relevant information to residents. He loved to travel and had an incredible breadth of experience. After his premature death (January 1995), over 120 of Alan’s friends, family and colleagues donated to a Memorial Trust Fund that provides an opportunity for a senior resident to travel and experience anesthesia practised elsewhere.
## ANESTHESIA CLINICAL WORKLOAD ESTIMATE FOR UNIVERSITY AFFILIATED HOSPITALS

<table>
<thead>
<tr>
<th>Hospital for Sick Children</th>
<th>SWCHSC</th>
<th>Toronto Women's College Site</th>
<th>UHN: East Toronto General Hospital</th>
<th>UHN: Toronto General Hospital</th>
<th>UHN: Toronto Western Hospital</th>
<th>Mount Sinai Hospital</th>
<th>St. Michael’s Hospital</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Beds</td>
<td>300</td>
<td>531</td>
<td>120</td>
<td>450</td>
<td>370</td>
<td>277</td>
<td>472</td>
</tr>
<tr>
<td>Number ICU beds:</td>
<td>25</td>
<td>76</td>
<td>2</td>
<td>16</td>
<td>23</td>
<td>16</td>
<td>54</td>
</tr>
<tr>
<td>Total general anesthetics</td>
<td>18,300</td>
<td>20,000</td>
<td>4,313</td>
<td>15,250</td>
<td>8,623</td>
<td>6,325</td>
<td>9,380</td>
</tr>
<tr>
<td>Total regional anesthetics</td>
<td>22</td>
<td>n/a</td>
<td>89</td>
<td>*</td>
<td></td>
<td>6,120</td>
<td>1,273</td>
</tr>
<tr>
<td>Total deliveries</td>
<td>n/a</td>
<td>n/a</td>
<td>3,318</td>
<td>3,124</td>
<td></td>
<td>7,034</td>
<td>2,385</td>
</tr>
<tr>
<td>Total epidurals/spinals</td>
<td>130</td>
<td>1,606</td>
<td>2,274</td>
<td></td>
<td>5,899</td>
<td>1,968</td>
<td></td>
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<tr>
<td>% Caesarian sections</td>
<td>n/a</td>
<td>n/a</td>
<td>33%</td>
<td>25%</td>
<td></td>
<td>32%</td>
<td>30%</td>
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<tr>
<td>Pain Clinic</td>
<td>344</td>
<td>2,824</td>
<td>247</td>
<td>n/a</td>
<td>298</td>
<td>1,639</td>
<td>2,051</td>
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<tr>
<td>PCA</td>
<td>375</td>
<td>25</td>
<td></td>
<td></td>
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<tr>
<td>Acute Pain Service:</td>
<td>777</td>
<td>4100</td>
<td>404</td>
<td>n/a</td>
<td>3,245</td>
<td>2,207</td>
<td>2,394</td>
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*included in total “general anesthetics*
The 26th Annual Shields’ Research Day was held at the Metro Convention Centre on May 6, 2005

**Shields Lecture:** Dr. Orlando Hung, Departments of Anesthesia, Surgery, and Pharmacology, Dalhousie University, Halifax, Nova Scotia. **Title:** Intellectual property: A personal perspective

Twenty-three residents and fellows prepared papers for the session. These included:

1. **Dr. Massimillano Meineri.** *Diastolic dysfunction and new onset of AF after CAGB.* (Supervisor: Dr. George Djaiani)

2. **Dr. Rachel A. O’Farrell.** *Predicting massive blood loss in cardiac surgery.* (Supervisor: Keyvan Karkouti)

3. **Dr. Marcin Wasowicz.** *Impact of routine tranexamic acid in cardiac surgery: Single centre review.* (Supervisor: Jacek Karski)

4. **Dr. Chunhua Yu.** *Ischemic preconditioning with volatile anesthetics in CABG: A meta-analysis.* (Supervisor: W. Scott Beattie)

5. **Dr. Yuji Hirasaki.** *Nasogastric tubes after cardiac surgery: Impact on nausea and vomiting.* (Supervisor: George Djaiani)

6. **Dr. Duncan Williams.** *A retrospective analysis of intraoperative glucose control in diabetic patients undergoing coronary artery bypass graft surgery.* (Supervisor: Claude Laflamme)

7. **Dr. Leonid Minkovich.** *Effect of alveolar recruitment on oxygenation after cardiac surgery.* (Supervisor: George Djaiani)

8. **Dr. Oana Predescu.** *Role of Gabapentin in burned patients.* (Supervisor: Terry Smith)

9. **Dr. Georges Savoldelli.** *The evaluation of patient simulator performance as an adjunct to the oral examination for senior anesthesia residents.* (Supervisor: Viren N. Naik)

10. **Dr. Gordon Wong.** *Does Sevoflurane affect cerebral autoregulation in children?* (Supervisor: Bruno Bissonnette)
11. **Dr. Denis Rohan.** Effect of Propofol and CPAP on airway size and configuration in infants. (Supervisor: Mark Crawford)

12. **Dr. Maria Manaloto-Angeles.** Perioperative management of patients of anticoagulants using thrombosis risk score. (Supervisors: David Wong/Frances Chung)

13. **Dr. Huan Zhang.** The use of autologous blood donation for live-donor right hepatectomy. (Supervisor: Stuart A. McCluskey)

14. **Dr. Ayman Rofaeel.** Combined spinal epidural analgesia in active labor: Effects of plain versus hyperbaric bupivacaine and fentanyl on block characteristics and maternal and fetal side effects. (Supervisors: Eric Goldszmidt/Jose Carvalho)

15. **Dr. Alan Chaput.** Meta-analysis of the analgesic efficacy of clonidine as an adjunct to epidural local anesthetics in postoperative pain. (Supervisor: W. Scott Beattie)

16. **Dr. Suzanne Lilker.** Ultralight PCEA in labor: Clinical assessment of theoretically equipotent mixtures of Bupivacaine-fentanyl and Bupivacaine-sufentanil. (Supervisor: Jose Carvalho)

17. **Victor Cheng.** The role of tonic GABAergic inhibition in learning and memory. (Supervisor: Beverley A. Orser)

18. **Mary Chiu.** Biochemical evidences of extrasynaptic a5-GABA_A receptors in mice hippocampus. (Supervisor: Beverley A. Orser)

19. **Dr. Francisco J. Herrera.** Postoperative recover outcomes measurements after day surgery – an evidence-based review. (Supervisor: Frances Chung)

20. **Dr. Imad Awad.** Ultrasound versus nerve stimulator guided axillary brachial plexus block. (Supervisor: Vincent Chan)

21. **Dr. Ahtsham Niazi.** Ultrasound evaluation of paresthesia and nerve stimulation. (Supervisor: Anahi Perlas)

22. **De. Jee Jian See.** Ultrasound guided central venous catheter placement in neurosurgical patients. (Supervisor: P.H. Manninen)

23. **George W. Kanellakos.** Transesophageal echocardiography in mediastinal mass resection. (Supervisor: Peter Slinger)
CONTINUING EDUCATION COMMITTEE

CME Chair: Dr. Peter Slinger

Committee Members:
- Pamela Angle  Sunnybrook & Women’s College Health Sciences Centre (WC)
- Karen Cybulski  Hospital for Sick Children
- Sharon Davies  Mount Sinai
- Len Eisen  Mount Sinai
- Mark Freidlander  North York General
- Charles Knapp  North York General
- Carol Loffelmann  St. Michael’s Hospital
- Jordan Tarshis  Sunnybrook & Women’s College Health Sciences Centre
- Martin Van der Vyver  Sunnybrook & Women’s College Health Sciences Centre (WC)
- Jean Wong  Toronto Western

The Continuing Education Committee for the Department of Anesthesia is comprised of representatives from each of the teaching hospitals as well as community based anesthesiologists. It meets regularly to discuss, plan and organize a number of continuing education initiatives. The committee endeavors to ensure that most CE activities qualify for University of Toronto sponsorship and are accredited learning activities.

Course Development
Each year the committee supervises the Anesthesia Practice Meeting. This meeting was organized by Dr. Martin Van der Vyver in 2004 and Dr. Pam Angle in 2005. This two-day course provides a combination of lectures, workshops and small group sessions. Over the past three years, the meeting has been extremely successful with unprecedented numbers of participants.

Course Sponsorship
The CME Committee aids in the development and accreditation of the following ongoing CME courses produced by the U of T Department of Anesthesia: In 2004-5 the following U of T Anesthesia courses were held

1. Ultra Sound Day, July 16, 2004 Toronto Western Hospital, contact: V. Chan (Vincent.chan@uhn.on.ca)
2. Regional Anesthesia and Pain Medicine, Oct. 1-3, Sutton Place Hotel, contact: V. Chan (Vincent.chan@uhn.on.ca)
3. Obstetric Anesthesia, Sept. 11, Mount Sinai Hospital, contact: Jose Carvalho (Jose.Carvalho@uhn.on.ca)
4. Transesophageal Echocardiography, Oct. 30-31, contact: Annette Vegas (Annette.Vegas@uhn.on.ca)
5. Toronto Anesthesia Practice, Nov. 26-28, Delta-Chelsea Hotel, contact: Martin Van Der Vyver (martin.vandervyver@sw.ca)
6. Tremblant Anesthesia Meeting, Feb. 18-21, 2005, Fairmont Hotel Mt. Tremblant; contact: Jordan Tarshis (jordan.tarshis@sw.ca)
7. Toronto Anesthesia Symposium: “Update on Airway Management”. April 9-10, 2005, Sheraton Hotel. Contact: P. Slinger (peter.slinger@uhn.on.ca)
8. Controversies in Perioperative Med., May 14-21, 2005, Tuscany, Italy. Contact: Mark Friedlander (mark.friedlander@rogers.com)

City Wide Rounds
The Committee has begun a program of U of T Anesthesia Video-Conference Rounds for 2004-5 which are available via video-link to all teaching hospitals. These rounds were held five times in 2004-5:
Postoperative analgesia, SHSC, 9/04, Dr. Henrik Kehlet, presenting,
Infection Control in Anesthesia, TGH, 9/04, Dr.’s Gardham and Cooper
Follow-up of patients with Congenital Heart Disease, HSC12/04, Dr. McCrindle
Mentoring SMH, 2/05, Dr. Karen Leslie
Supra-glottic Airway Devices, TGH, 4/05, Dr. D. Ferson

Web-Based Learning
A website containing seven educational modules which can be accessed through the CME menu at: http://www.anesthesia.utoronto.ca has been developed by Sharon Davies (Mt. Sinai) These modules have been accredited by the University of Toronto for MainCert Category I credits.

Continuing Professional Development: The CME Committee plans to develop a grant program using funds generated by the U of T Anesthesia CME courses to enable the U of T Anesthesia faculty to pursue further education or projects related to CPD.
RESEARCH COMMITTEE

Research Chair: David Mazer

Committee Members:

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
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<tbody>
<tr>
<td>Andrew Baker</td>
<td>St. Michael's Hospital</td>
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<tr>
<td>David Mazer</td>
<td>St. Michael's Hospital</td>
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<tr>
<td>Mark Crawford</td>
<td>Hospital for Sick Children</td>
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<tr>
<td>Brian Kavanagh</td>
<td>Hospital for Sick Children</td>
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<tr>
<td>David McKnight</td>
<td>Ethics, St. Michael’s Hospital</td>
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<tr>
<td>Scott Beattie</td>
<td>University Health Network (Toronto General Hospital)</td>
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<tr>
<td>Peter Mak</td>
<td>University Health Network (Toronto Western Hospital)</td>
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<tr>
<td>Alison MacArthur</td>
<td>University Health Network (Mount Sinai Hospital)</td>
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<tr>
<td>Beverley Orser</td>
<td>SWCHSC (Sunnybrook Campus)</td>
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<tr>
<td>Pamela Angle</td>
<td>SWCHSC (Women's College Campus)</td>
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<tr>
<td>Mark Levine</td>
<td>Residency Program Director</td>
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<tr>
<td>Alan Chaput</td>
<td>Trainee Representative</td>
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Research Productivity and Funding Support

2004-2005 was another very successful year for the Department of Anesthesia. Research funding increased for the 6th consecutive year and now exceeds $9 million. Peer-review funding continues to be the major source of research support, increasing by more than 5 fold in the last 5 years. In keeping with the department’s priorities, research in neuroanesthesia, cardiorespiratory, critical care, pain, technology, education, patient safety, ambulatory and obstetrical anesthesia continue to be well supported.

Our productivity remains very competitive with other leading Departments of Anesthesia in North America, with 172 publications, 171 abstracts and 30 book chapters published this year (please refer to list of publications).

At the 2005 Canadian Anesthesiologists' Society meeting, the following department members received prominent research awards:

Dr. Gregory Hare – the Richard Knill Award and the Bristol-Myers Squibb Canada/CAS Career Scientist Award in Anesthesia and Peri-operative Medicine for “Mechanisms of cerebral protection and injury during acute hemodilutional anemia”.
Dr. Duminda Wijeysundera – Canadian Anesthesiologists’ Society Research Award for “The EPIC (Evaluating Peri-operative Ischemia reduction by Clonidine) Study: A randomized double-blinded trial of clonidine for reducing cardiac morbidity and mortality following non-cardiac surgery”.

Other Selected Grants and Awards

- Dr. Scott Beattie was awarded a CIHR grant for “The perioperative epidural trial (POET): A pilot trial assessing the use of perioperative epidural anesthesia and analgesia in the reduction of major postoperative cardiopulmonary morbidity”.

- Dr. Frances Chung received funding from the Physicians’ Services Incorporated Foundation for a study of the “Elimination of preoperative testing in low-risk day surgery”.

- Drs. Viren Naik, Hwan Joo, and Patricia Houston received grants from The Canadian Anesthesiologists’ Society, the Dean’s Excellence Fund for Medical Education, and the Physicians’ Services Incorporated Foundation to study simulation-based training and performance for anesthesia residents.

- Dr. Keyvan Karkouti was awarded a CIHR grant for his study entitled “Development and validation of a clinical prediction rule for massive blood loss in cardiac surgery”.

![Graph showing funding over years with Non-Peer and Peer categories](image-url)
- Dr. Brian Kavanagh was awarded a CIHR grant for “Therapeutic hypercapnia”.

- Dr. Wei-Yang Lu received funding from CIHR to study “Acetylcholinesterase in brain aging”.

- Dr. Haibo Zhang was awarded a CIHR grant for his study on “Human neutrophil peptides in lung inflammation”.

- Dr. Joe Fisher received grants from the U.S. government to study “Testing for highly mobile oxygen supplementation system and investigation of feasibility of integrating with battlefield ventilation device”.


Awad IT, Chan V. Developing yet another spinal analgesic drug? Can J Anesth 2004; 51:871-4


Bell HJ, Duffin J. Respiratory response to passive limb movement is suppressed by a cognitive task. J Appl Physiol 2004 Dec; 97(6):2112-20

Bevan DR. Genes, race and drug (Editorial). Clinical and Investigative Medicine 2004; 27:5-6


Bryson GL, Chung F, Cox RG, Crowe MJ, Fuller J, Henderson C, Finegan BA, Friedman Z, Miller DR, van Vlymen J; Canadian Ambulatory Anesthesia Research


Caraiscos VB, Elliott EM, You-Ten KKE, Cheng VY, Belelli D, Newell JG, Jackson MF, Lambert JJ, Rosahl TW, Wafford KA, MacDonald JF, Orser BA. Tonic inhibition in mouse hippocampal CA1 pyramidal neurons is mediated by $\alpha_5$ subunit-containing GABA$\text{A}$ receptors. Proc Nat Acad Sci, 9; 101(10):3662-7.


Choi PT, Beattie WS, Bender JS, Wijeysundera DN. Nitrates for the prevention of cardiac morbidity and mortality in patients undergoing noncardiac surgery (protocol for a Cochrane Review. The Cochrane Database of Systematic Reviews. 2004, Issue 4


Hare MT, Hum KM, Kim SY, Barr A, Baker AJ, Mazer CD. Increased cerebral tissue oxygen tension following extensive hemodilution with a hemoglobin based oxygen carrier. Anesth and Analg 2004; 99:528-535


Jadad AR. A view from the Internet age: Let’s build a health system that meets the needs of the next generation. CMAJ 2004; 171:1457-8


Katz J, Cohen L. Preventive analgesia is associated with reduced pain disability three weeks but not six months after abdominal gynecological surgery by laparotomy. Anesthesiology, 2004; 101: 169-174


Landis MS, Bradley J, MD. The Impact of SARS Outbreak on Medical Students at the University of Toronto. University of Toronto Medical Journal May 2005; (82) 3


Li YM, Duffin J. Developmental changes in transmission of respiratory rhythm in the rat. Respir Physiol Neurobiol. 2004 Sep 15; 142(2-3):153-63


McCartney CJL. We need to educate about perioperative pain control and not just regional anesthesia (letter). Reg Anesth Pain Med 2004; 29:382


Peng PW. Intracranial hypotension with severe neurological symptoms resolved by epidural blood patch. Can J Neurol Sci 2004; 31:569-71


Peng PWH, Tumber PS, Gourlay D. Perioperative pain management of patients on methadone therapy. Can J Anesth 52:513-23


Perlas A, Chan VWS. Ultrasound-guided interscalene brachial plexus block. Techniques in Regional Anesthesia and Pain Management 2004; 8:143-8


Sikich N, Lerman J. Development and Psychometric Evaluation of the Pediatric Anesthesia Emergence Delirium Scale. Anesthesiology 2004; 100:1138


Snijdelaar DG, Cornelisse HB, Schmid RL, Katz J. A randomised, controlled study of peri-operative low dose s(+)-ketamine in combination with postoperative patient-
controlled s(+)-ketamine and morphine after radical prostatectomy. Anaesthesia 2004; 59:222-228


Whitehead TC, Zhang H, Mullen B, Slutsky AS. Effect of mechanical ventilation on cytokine response to intratracheal lipopolysaccharide. Anesthesiology 2004; 101:52-58

Wijeyesundera D, Beattie S, Rao V, Ivanov J, Karkouti K. Calcium antagonists are associated with reduced mortality after cardiac surgery: a propensity analysis. J Thorac Cardiovasc Surg 2004; 127:755-62 (This article was accompanied by two editorials.)


**BOOK CHAPTERS**


**Colapinto M, Bradley J, (Ed).** Faculty of Medicine, University of Toronto, Toronto ON, The ASCM 1 Clinical Skills Handbook, Second Edition. 2004


Karkouti K, McCluskey S. Is autologous predonation cost-effective? In: Evidence-based Practice of Anesthesiology. LA Fleisher (Ed). Chapter 14; 82-88. 2004

Karski J, Karkouti K. Antifibrinolytics and coagulation management. In: A Practical Approach to Perioperative Care in Cardiac Anesthesia and Surgery. 2e, Cheng DCH, David. TE (Eds). Lippincott Williams & Wilkins 2005


ABSTRACTS


Beecroft J, Duffin J, Mahamed S, Hanly P. Comparison of Chemo-responsiveness in Obstructive Sleep Apnea Patients with and without Chronic Renal Failure. ATS 2005

Bender J, Hohenadel J, Wong J, Katz J, Warr D, Jadad AR. Improving communication during the management of cancer pain in the Internet age: An examination of the questions that breast cancer patients have about pain. The Journal of Pain 5 (Suppl. 1), Abstract 2004; 1039:118


Bradley J, Sadovy B, Reznick R. A History Taking and Physical Examination Skills Recording Studio-How to Bring Faculty and Students on Board. First International Clinical Skills Conference. Prato, Italy. May 2005


Caraisocs VB, You-Tien KE, Newell JG, Elliott EM, Rosahl TW, Wafford KA, MacDonald JF, Orser BA. The volatile anesthetic, isoflurane selectively enhances the tonic GABAergic current in hippocampal pyramidal neurons. Society for Neuroscience 2004; 844.3

Chapman MG, J Ives J, Young B, Mirsattari S. The ideal electrode for long-term EEG monitoring in ICU patients. Neurocritical Care Society Annual Conference, Arizona USA, February 2005

Cheng VY, MacDonald JF, Orser BA. Gabapentin increases tonic GABAergic inhibition in hippocampal neurons. Society for Neuroscience 2004; 844.2


Hare GMT, Mazer CD, Stewart DJ, Qu R, Robb M, Coackley CL, Baker AJ. Increased cerebral cortical vegf expression in anemic rats. Society of Neuroscience 34th Annual Meeting, San Diego, California, 2004

Hare GMT, Mazer CD, Lui E, Qu R, Sikich N, Baker AJ. Resuscitation with albumen improves cerebral oxygenation following hemorrhage in rats. J Neurotrauma 2004; 21(9):1280


Hussain K, Angle PJ. Efficacy of local anesthetic techniques in improving post-cesarean section analgesia-A qualitative systematic review. Anesthesiology 2005; 102( suppl 1):A 43


Kraeva N, Loke JCP, MacLennan DH. Identification of novel CCD mutations in RYR1. Canadian Anesthesiologists’ Society Annual Meeting 2005; Vancouver, BC.


Mak PHK, El-Beheiry H. Simultaneous actions of propofol on bispectral index and heart rate variability. Journal of Neurosurgical Anesthesiology 2004; 16: 370
Mak PHK, El Beheiry H. Age-dependent actions of sevoflurane on heart rate variability. Can J Anesth 2005; 52: A146


McCluskey SA, Karkouti K, Ghannam M, Salpeter MJ, Quirt I, Yau TM. Treatment of postoperative anemia: Intravenous iron, compared to intravenous iron and erythropoietin. ASA 2005


Newell JG, Wafford KA, Rosahl TW, MacDonald JF, Orser BA. Propofol modulation of tonic and recombinant GABA\textsubscript{A} receptors. Society for Neuroscience 2004; 844.1


Orser BA, Elliott EM, MacDonald JF, Wafford KA. Etomidate sensitivity is reduced in hippocampal pyramidal neurons from GABA\textsubscript{A} receptor $\alpha$5 subunit null mutant mice. Society for Neuroscience 2004; 844.4

Park E, Baker AJ. The rat cerebellum is highly vulnerable to indirect trauma following mild and severe forebrain fluid percussion injury. J Neurotrauma 2004; 21(9):1318


Rubenstein M, Tripp D, Harrison M, Goldstein D, Gagliese L. The Impact of SARS visitation restrictions on patients' perception of nursing support. 2\textsuperscript{nd} Joint Scientific


**Sasano N, Sasano H, Ito S, Fisher JA, Katsuya H.** Effect of hypoxia on respiratory sinus arrhythmia. 14th International Hypoxia Symposium, Lake Louise, Canada, February 2005


**Slessarev M, Poublanc J, Prisman E, Rowan S, Somogyi R, Preiss D, Fisher JA, Mikulis D.** Variations in end-tidal oxygen concentrations may confound interpretation of


Wasowicz M, Karski J, Karkouti K, Djaiani G, Fedorko L, David T. The Impact Of Routine Use Of Tranexamic Acid In Cardiac Surgery; Large Single Centre Review. Society of Cardiovascular Anesthesiologists 2005

Wells GD, Plyley M, Thomas S, Goodman L, Duffin J. Effects of Concurrent Respiratory Muscle Training on Respiratory and Exercise Performance in Competitive
Swimmers. 15th FINA ACSM World Sports Medicine Congress, Indianapolis, Indiana, October 2004


Yu, CH, Loke JCP, Kraeva N, MacLennan DH. Synthetic DNA standards for genetic screening for MH/CCD (presented at Richard Knill Research Competition at CAS #61 Vancouver,BC. 2005


INVITED LECTURES

Angle P.

University of Toronto Pain Day. Randomized Controlled Trial Examining the Effect of 19g versus > 17g Traditional Tuohy-type Epidural Needles on the Incidence and Severity of Postdural Puncture Headache in Parturients Receiving Labor Analgesia. Toronto, Ontario. March 2005


Visiting Professor, Department of Anesthesia, University of Western Ontario, London, Ontario, February 2005

Avila A.


Acute Pain Management, Multimodal Analgesia in Acute Pain Syndromes. Clinical Case Discussion Pain Series to The University of Toronto Medical Students and Clerks at Sunnybrook Women's College Health Science Centre, December 2004.

Lecture series on Sepsis Syndromes, Current Management; Airway Management in the Critical Care Patient; and Pain and Sedation in the Critical Ill Patient. The University Hospital, 2004 Critical Care Medicine Update, Zulia University, Faculty of Medicine, December 27-29, 2004.

Intravenous Regional Anaesthesia in Upper and Lower Limbs, Techniques and Clinical Applications. Series in Regional Anaesthesia for Anaesthesia Residents at Sunnybrook and Women’s College Health Sciences Centre, March 2005.

Lecture series on Central and Peripheral Neuropathic Pain Syndromes; Post Herpetic Neuralgias; Painful Neuropathies; and Central Pain and CRPS type I and II. University of Toronto, Medical Faculty, June 1, 2005.

**Baker A.**
Canadian Council on Donation and Transplantation. The ethics of not providing the option organ donation after cardiocirculatory death. DCD National Forum. Vancouver. February 2005,


APICE conference. Traumatic spinal cord injury, conservative versus aggressive management. Trieste, Italy. November 2004

APICE conference. Prehospital Care: Triage and Primary Survey. Trieste, Italy. November 2004

APICE conference. From the Field to Operating Theatre. Trieste, Italy. November 2004

**Balki M.**

**Bevan DRB.**


**Bissonnette B.**
Visiting Professor. University of Toronto, Toronto, Ontario, Canada

Visiting Professor. Physiologie du nouveau-né et du nourrison. DIU Perfectionnement en Anesthésie Pédiatrique. Université de Lille, Lille, France, Oct 21-22, 2004

Visiting Professor. Halogéné et protoxy d’azote: Effet cerebral. DIU Perfectionnement en Anesthésie Pédiatrique. Université de Lille, Lille, France, Oct 21-22, 2004

Visiting Professor. Cerebral Protection: The Bad, The Maybe, The Future. Loma Linda University, Loma Linda, California, Nov 10, 2004

Visiting Professor. Head Trauma in Children: Common Errors in Management. Loma Linda University, Loma Linda, California, Nov 10, 2004


3rd All African Anesthesia Meeting. Pediatric Case Presentation. Hammamet, Tunisia May 19-24, 2005

Mansoura International Pediatric Anesthesia Meeting, Cerebral protection in pediatric patients (what’s new and what’s not?) Port Said, Egypt, June 1-4, 2005


Mansoura International Pediatric Anesthesia Meeting, Craniostenosis and Hurler Syndrome: Case Discussion. Port Said, Egypt, June 1-4, 2005

Visiting Professor. Neuroanesthésie: Prise en charge de l’enfant. Université de Lille, Lille, France, June 24, 2005

Egyptian Annual Anesthesia Meeting. Head Trauma in Children: Common Errors in Management. Cairo, Egypt, March 1-4, 2005
Egyptian Annual Anesthesia Meeting. Cerebral Protection and Therapeutic Hypothermia. Cairo, Egypt, March 1-4, 2005

Egyptian Annual Anesthesia Meeting. Syndromes: How to prevent a nightmare. Cairo, Egypt, March 1-4, 2005

Visiting Professor. Head Trauma in Children: Misconceptions and Common Errors in Management. Johns Hopkins University. Baltimore, Maryland, USA, April 14, 2005

**Bohn D.**


anti-infectious agents for critically ill neonates and children: which decision to take (Chair). Bern, Switzerland. March 2005.


1st Annual Toronto Symposium: Contemporary Questions in Congenital Heart Disease. 1. Does treatment make a difference in acute myocarditis? 2. Cardiac surgical programs with less than 200 pumps per year should be closed (Chair of debate). 3. Parents should be given the option to be present at the bedside during CPR (Chair of debate). Toronto, Ontario. May, 2005.

Bradley JW.

Mortality & Morbidity Rounds, Department of Medicine, University Health Network. Developing a Just Culture for the Reporting of Medical Incidents. Toronto, Ontario. May 2005


Byrick RJ.


Carvalho J.


Chan V.

Canadian Anesthesiologists’ Society 61st Annual meeting. Workshop Leader, Ultrasound Guided Nerve Block – Part I and II. Vancouver, BC. June 19, 2005

Canadian Anesthesiologists’ Society 61st Annual meeting. Symposium – Multimodal Pain Therapy to Aid Surgical Rehabilitation, Regional Analgesic Considerations. Vancouver, BC. June 18, 2005


30th Annual Spring Meeting, American Society of Regional Anesthesia & Pain Medicine. Ultrasound Imaging in Regional Anesthesia. Toronto, ON. April 21, 2005

2nd Annual Ultrasound and Regional Anaesthesia International Symposium. Brachial Plexus Block above the Clavicle. Schwetzingen, Germany. April 1, 2005

2nd Annual Ultrasound and Regional Anaesthesia International Symposium. Sciatic Nerve Blocks. Schwetzingen, Germany. April 1, 2005

Chung F.

PONV Reduction, Fast-Track Surgery, Pathophysiology, Results and Future Strategies meeting. Montreal, QC, June 25, 2005

Canadian Anesthesiologists’ Society 61st Annual meeting. Sleep Apnea and Anesthesia. Vancouver, BC. June 18, 2005

Canadian Anesthesiologists’ Society 61st Annual meeting. Symposium – Multimodal Pain Therapy to Aid Surgical Rehabilitation, Pharmacological Techniques. Vancouver, BC. June 18, 2005


Toronto Anesthesia Symposium. Obstructive Sleep Apnea: What Are We Going To Do?. Toronto, Ontario, April 9, 2005

Sleep Apnea, 10th Annual Okanogan Anesthesia Conference, Vernon, BC, January 30, 2005

10th Annual Okanogan Anesthesia Conference. Pain and Symptom Management in the Ambulatory Care Setting. Vernon, BC. January 29, 2005

St. John’s Regional Health Centre. Pain and Symptom Management in the Ambulatory Setting. Murray Place, St. John’s, NF. October 6, 2004

Queen Elizabeth II Health Science Centre. Sleep Apnea and Anesthesia. Halifax, NS. October 5, 2004

Humber Memorial Hospital. Outpatient Selection Criteria Evidence-Based Criteria. Toronto, ON. September 8, 2004

Cooper RM.


Visiting Professor, Grand Rounds. Yale Medical School. 1 Resident Lecture: Extubation of the Difficult Airway. 2. Grand Rounds: GlideScope®—just another airway toy or an important new tool? Department of Anesthesiology. November 2-3, 2004


**Cox P.**

PALISI Meeting (Principal Investigators Meeting). New York, NY. October 2004


**Davies S.**


**Devito I.**
North York General Hospital. Communication in Labour and Delivery. North York, November 2004

Djaiani G.


Society of Cardiothoracic Anesthesiologists 27th Annual Meeting. Problem Based Learning Discussion Faculty Member: Epiaortic scanning of the ascending aorta. Baltimore, Maryland, USA. April 2005

Anesthesia Update. HOCM and Echocardiographic implications. Puerto Rico, USA. January 20, 2005


Abstract Selection Committee: International Anesthesia Research Society. October 2004

IARS 78th Clinical and Scientific Congress. Co-Chair, Plenary Session. Tampa, FL, USA. March 2004

El-Beheiry H.

Rikshospitalet University Hospital. Work Shop, Anaesthetic actions on the aging synapse, Research group in cerebral pathophysiology, Institute for surgical research. Oslo, Norway. September 16, 2004


Fisher J.
Visiting Professor. Department of Hyperbaric Medicine and Department of Anesthesiology, Duke University Health Sciences Center. The V/A method: Precise end-
tidal gas control. 2) Differential Fick and non-invasive cardiac output determination in spontaneously ventilating subjects. Durham N.C. December 2004

Visiting Professor. University of Colorado Health Sciences Center. The “CVP Seminar”; Colorado Center for Altitude Medicine and Physiology. The V·A method: Precise end-tidal gas control. November 2004

Advanced Technology Applications for Combat Casualty Care. Ventilatory circuit design for oxygen conservation and noninvasive cardiac output in the field. St. Petersburg, FL. July 2004


The 5th Biennial Course on the Management of Thyroid Nodular Disease and Cancer. Lessons learned at 19,000’ in the Bolivian Andes. The Lister lecture. Toronto, Ontario. June 2004

Gagliese L.
Annual Provincial Palliative Care Conference. Pain in the elderly palliative care patients. Chester, Nova Scotia. May 2005


Goldszmidt E.


Halpern S.
Canadian Society of Anesthesiologists’ Annual Meeting. The morbidly obese parturient. Vancouver, BC. June 19, 2005


Hare GMT.
Case Western Reserve University, Department of Neurology, School of Medicine. Mechanisms of Anemia Induced Cerebral Injury. Cleveland Ohio. April 21, 2005.


Jadad AR.
Son Llatzer Hospital International Conference on eHealth Innovation. Promoting partnership with patients to improve health. Majorca, Baleares, Spain. July 5, 2004

IAVANTE. ELearning: bringing innovations from the lab to the real world. Seville, Spain, July 15, 2004

Parque Tecnologico de Andalucia. Ehealth: new business opportunities in the internet age. Malaga, Spain, July 16, 2004

Grand Rounds. Department of Medicine, McMaster University. Managing pain in the internet age. Hamilton, Ontario, September 23, 2004


Annual Meeting of the Royal College of Physicians and Surgeons of Canada. The virtual specialist: will we meet the needs of the next generation of patients? Ottawa, Ontario, October 1, 2004

Cochrane Colloquium: Bridging the Gaps. Epistemological relativism: discordant reviews. Ottawa, Ontario, October 3, 2004

TGH Institute Rounds. A fix for a generation: research frontiers to explore in the era of eHealth, Toronto, Ontario. October 20, 2004

Annual Research Day. Working with patients as partners: New opportunities for knowledge translation in the age of the internet. October 26, 2004


2004 CNSA Ontario Regional Conference. Bridging gaps in the age of the internet: Are nurses ready to meet the needs of our next generation? Toronto, Ontario. October 30, 2004

Laval Conference. Bias manipulation and distortion of research evidence: how vulnerable are our tools and our minds? Quebec City, Quebec. November 9, 2004


Opening of the Markin Institute for Public Health, University of Calgary. Health Promotion and population health: a view from the Internet age. Calgary, Alberta. February 3, 2005


Toronto Rheumatology Rounds, Hospital for Sick Children Auditorium. Re-building trust: exploring new opportunities for partnership among academia, the health system, industry and the public. Toronto, Ontario. February 8, 2005


Keynote via videoconference. Galil Center for Medical Informatics and Telemedicine. Haifa, Israel, March 7, 2005


Karkouti K.
University of Toronto, Department of Cardiovascular Surgery, University Health Network. The RICH trial: donation brings good fortune. 2004

Vancouver General Hospital and The Vancouver Blood Club. Excessive blood loss and recombinant factor VIIa. Vancouver, BC. 2004


National research forum for young investigators in circulatory and respiratory health. Blood loss is a perioperative risk factor. Winnipeg, Manitoba. 2004


Canadian Anesthesiologists’ Society Annual Meeting. Chair of satellite symposium on activated recombinant factor VII by Novo Nordisk. Vancouver, Canada. 2005

Karski J.

Whistler Cardiac Team Meeting. Role of TEE in Critically ill patient. Whistler, BC. March 2005

Visiting Professor. Department of Cardiovascular Surgery and Transplantology at the Jagiellonian University. TEE in Intensive Care. TEE in diagnosis of acute aortic dissection. Krakow, Poland. April 29, 2005

Karsli C.
Humber River Regional Anesthesia Group. Anesthesia for Children and Infants. Toronto, May 18, 2005

Toronto Anesthesia Symposium: Update on Airway Management. Pediatric Airway Management. Toronto, April 9, 2005

Credit Valley Hospital Grand Rounds Lecture Series. Anesthesia for Pediatric Laparoscopic Surgery. Mississauga, March 8, 2005

Grand Rounds Lecture Series. Markham Stouffville Hospital. Anesthesia for Children and Infants. January 26, 2005

Grand Rounds Lecture Series Scarborough General Hospital. Anesthesia for Children and Infants. December 7, 2004


The Toronto Pediatric Endoscopy Course. Anesthesia for Pediatric Airway and Esophageal Endoscopy. Toronto, November 12, 13, 2004


Toronto Anesthesia Symposium: Update on Airway Management. Moderator, Workshop: Pediatric Fiberoptic Intubation. Toronto, ON, April 9, 2005

Katz J.

7th International Conference on the Mechanisms and Treatment of Neuropathic Pain. A clinical research agenda for neuropathic pain: Natural history and mechanisms.


2005 Annual Conference of the Canadian Pain Society. Exploring potential similarities and differences between chronic pain in infants and chronic pain in verbal populations: Expanding the notion of chronic pain to infancy. Halifax, NS. May 14, 2005

CIHR Training Grant Summer School. Pain from Community to Molecules. Transition of acute to chronic pain after cardiac surgery and other types of surgeries – Clinical understanding of the underlying mechanisms. Merrickville, Ontario. June 2, 2005

Kavanagh B.
Science Foundation of Ireland (SFI). Ventilator-Associated Lung Injury: From Biology to Epidemiology. Galway, Ireland. SEPTEMBER 2004


International Symposium on Lung Injury. 1.Hypercapnia, Hypoxia & Pulmonary Inflammation. 2.Pediatric ARDS, Adult ARDS -what are the differences? Mexico City, Mexico. NOVEMBER 2004

The College of Anesthetists of Ireland. The Winter College Lecture. Dublin, Ireland. DECEMBER 2004

Society of Intensive Care Medicine (postgraduate course). Refresher Course Lecture: Targets in ARDS. Orlando, USA. JANUARY 2005


16th SMART Conference (Anesthesiology and Critical Care). Milan, Italy. MAY 2005

Pediatric Academies Society - Annual Scientific Meeting. Washington, DC., USA. MAY 2005
Laflamme C.
5th Annual Tremblant Perioperative Medicine Conference. Glucose Control in Perioperative Period. February 2005

Loke JCP.

Perioperative Retreat. Malignant Hyperthermia. Mt Sinai Hospital. Five updated policies and procedures documents to deal with acute MH crises; preventative treatment and routine post-operative management of patients at risk of MH; anaesthesia machine preparation; streamlined dantrolene stocking and supply; overhaul of the malignant hyperthermia cart. Toronto, Ontario. December 12, 2004

Lu W-Y.
Department of Biomedical and Pharmaceutical Science, University of Montana. Acetylcholinesterase and glutamatergic transmission. April 2005.

Macarthur A.


MacPherson BA.


Senior residents Practice Oral Session. University of Western Ontario, Department of Anesthesia. May 2005
Mazer CD.


McCartney C JL
Canadian Anesthesiologists’ Society 61st Annual meeting. Symposium – Multimodal Pain Therapy to Aid Surgical Rehabilitation, What is the Problem and How Can We Solve It? Vancouver, BC. June 18, 2005

Canadian Anesthesiologists’ Society 61st Annual meeting. Workshop, Ultrasound Guided Nerve Block – Part I and II. Vancouver, BC. June 19, 2005


McCluskey SA.

Managing a Perioperative Blood Conservation Program Hospital. Scarborough General Hospital, Scarborough, Ontario. November 23, 2004


ONTraC Coordinators Meeting. Use and Abuse of PAD and ANH. Toronto, Ontario. March 30, 2005


McRae K.

Donation after Cardiocirculatory Determination of Death, a forum sponsored by the Canadian Council on Donation and Transplantation and Health Canada. Vancouver, British Columbia. February 17-20, 2005

Middleton W.

Morgan PJ.

**Murphy P.**


Canadian Cardiovascular Congress. Ischemic Mitral Regurgitation Workshop. Calgary, Alberta. October 26 2004

St Paul’s Hospital. Artifacts and Anatomical Pitfalls in TEE. Vancouver, BC. October 13 2004

Royal Columbian Hospital. Artifacts and Anatomical Pitfalls in TEE. Vancouver, BC. October 14 2004


University City-Wide Rounds/Visiting Professor Lecture. University of British Columbia. TEE and Intraop Assessment of Congenital Heart Disease. Vancouver, BC. October 13 2004

Visiting Professor. University of British Columbia. Department of Anesthesiology. Vancouver, BC. October 2004

**Orser B.**

**Peng P.**


**Perlas A.**
Canadian Anesthesiologists’ Society 61st Annual Meeting. Workshop, Ultrasound Guided Nerve Block – Part I and II. Vancouver, BC. June 19, 2005

SAMBA Annual Meeting. Workshop, Ultrasound guided peripheral nerve blocks-Branclial plexus above the clavicle. Scottsdale, Arizona. May 12, 2005


**Prabhu A**
Toronto Anesthesia Symposium. Workshop, LMA’s Intubating LMA, Supraglottic Airways. Toronto, Ontario. April 10, 2005

**Riegert, D.**

**Roy WL.**

Dannemiller Memorial Educational Foundation. Pediatric Anesthesia – Perspectives of Experienced Practitioners Drug Error and the Anesthesiologist. Las Vegas, Nevada. April 29- May 1 2005

Dannemiller Memorial Educational Foundation. Pediatric Anesthesia – Perspectives of Experienced Practitioners T&A for the Child with Sleep Apnea. Las Vegas, Nevada. April 29- May 1 2005

Dannemiller Memorial Educational Foundation. Pediatric Anesthesia – Perspectives of Experienced Practitioners Awake Extubation – The Only Way. Las Vegas Nevada. April 29- May 1 2005

Canadian Anesthesiologists’ Society Meeting. Pediatric publications that have changed my practice. Vancouver, BC. June 20, 2005

Slinger P.

Visiting Professor, Department of Anesthesia, Scott and White Memorial Hospital, Texas A&M University, Temple, Texas. June 2005


Visiting Professor, Hopital Cardiovasculaire et Pneumologie Louis Pradel, Lyon, Franc. June 2005

Dannemiller Review Course in Anesthesiology. Preoperative Assessment, Lung isolation, One-lung Ventilation, Mediastinal Masses, Post-thoracotomy Analgesia. Chicago, IL. May 2005

Dannemiller Review Course in Anesthesiology. Preoperative Assessment, Lung isolation, One-lung Ventilation, Mediastinal Masses, Post-thoracotomy Analgesia. San Antonio, TX. June 2005


Visiting Professor, Department of Anesthesia, King Khalid University Hospital. Riyadh, Saudi Arabia. March 2005
Symposium on Anesthesia for Minimally Invasive Surgery. King Saud University.
Anesthesia for Lung Volume Reduction Surgery, Anesthesia for Thoracoscopic

Annual New York Anesthesiology Review. Lung Isolation; Management of One-lung
Anesthesia; Respiratory Physiology. Orlando, FL. March 2005

Preoperative Assessment for Pulmonary Resection. Int. Honolulu, HI. March 2005

Management of One-lung Anesthesia. South Asia Congress of Anaesthesiologists.

Visiting Professor, Department of Anesthesia. University of Alberta, Edmonton, Alberta.
January 2005

Review Course in Cardiovascular and Thoracic Anesthesia. Hospital de la Santa Creu I
Sant Pau. Prediction and Management of Hypoxemia During One-lung Ventilation.
Barcelona, Spain. November 2004

TEE Unknowns. Toronto, Ontario. October 2004

Annual Meeting, American Society of Anesthesiologists, Will this Patient Tolerate a
Pneumonectomy? Problem-based Learning Discussion. Las Vegas, NV. October 2004

Visiting Professor, Department of Anesthesia, University of Cincinnati, Cincinnati, OH.
September 2004

International Congress of Cardiothoracic and Vascular Anesthesia. Management of One-
lung Anesthesia and Techniques for Lung Isolation. Tokyo, Japan. September 2004

Tarshis J.

5th Annual Tremblant Perioperative Medicine Conference. Medical Error: Inevitable or
Preventable. February 2005

Anaesthesia and Obstetric Rounds, The Scarborough Hospital, General Division.
Epidural Anesthesia for Labour: Friend or Foe? April 2005

Visiting Professor. University of Alberta, Edmonton. Anesthesia & Outcomes: Nihilism
or Optimism? May 2005
Tharmaratnam U.

Tumber P.


Workshop Leader, Lumbar Plexus Blocks, Regional Anesthesia and Pain Medicine 2004 Conference, Sutton Place Hotel, Toronto, ON, October 3, 2004


Van der Vyver M.


Vegas A.
Canadian Anesthesiologists’ Society Annual Meeting. Chair TEE Workshop. Diagnostic Dilemmas. 2005

Society of Cardiovascular Anesthesia. Problem Based Learning Discussion: Pacemakers and AICDs. 2005


Surgical Services Rounds UHN. Perioperative Echocardiography: Transesophageal and Epiaortic. Toronto, Ontario. 2004

**Wong D.**
Toronto Anesthesia Symposium. Cannot Intubate, Cannot Ventilate: Are We Up to Speed? Toronto, Ontario. April 9, 2005

**Yao P.**

**Yee D.**


Toronto Airway Symposium. Sheraton Centre, Toronto, Ontario. Trauma Patient with the Uncleared: C-Spine – Pro-Con Debate. April 2005

**Zhang H.**
Toronto Airway Group Seminar, Medical Sciences Building, University of Toronto. Sepsis and treatment. Toronto, Ontario. January 26, 2005


Beattie WS, Choi P. Canadian Institutes of Health Research (CIHR). $300,000. (Multi-Center Study). The Peri-operative Epidural Trial: A pilot trial assessing the use of peri-operative epidural anesthesia and analgesia in the reduction of major post-operative cardio-pulmonary morbidity. 2005


Carlen P, El-Beheiry H, Del Camp M, Shannon P. Juvenile Diabetes Research


Chung F. Physicians’ Services Incorporated Foundation (PSI). $80,000. Elimination of preoperative testing in low-risk day surgery. 2004-2005


Djaiani G. Dean’s Fund. $2,000/y (5 years). The impact of specific gene polymorphism on neurocognitive decline after cardiac surgery. 2002-2007

Gagliese L, Katz J, Snijdelaa D, Chan V. Canadian Institutes of Health Research Clinical Trial. (CIHR) - $108,515/yr (3 years). Effects of NMDA-receptor antagonism on postoperative opioid use, pain, hyperalgesia and recovery after major surgery in young and elderly patients. 2002-2006

Gagliese L. University of Toronto Faculty of Medicine Dean’s Research Fund. $2,446/yr (4 years). An evidence-based approach to the measurement of postoperative pain across the adult life span: Developing age-appropriate instruments to measure pain. 2001-2005


Hare G. Bristol-Myers Squibb-CAS Career Scientist Award in Anesthesia and Perioperative Medicine. $270,000/3yrs Mechanisms of cerebral protection and injury during acute hemodilutional anemia. 2005-2008

Hare G. Physicians’ Services Incorporated Foundation (PSI). $146,000/2yrs. Anemia induced cerebral hypoxic gene expression. 2004-2006

Hare G (Co-Investigator). Heart and Stroke Foundation of Canada. $75,868/2 yrs. Prolonging action potential duration and preventing cell injury in cardiac arrest. 2003-2005

Hawker GA, Gagliese L. Canadian Institutes of Health Research – New Emerging Team. (CIHR) $295,354 (Year 1) $1,495,170 (4 years total). Determinants and consequences of pain and fatigue in osteoarthritis using a biopsychosocial approach. 2004-2008


Joo H, Naik VN, Joo HS, Houston PL, Yee B, Savoldelli GL, Hamstra SJ. Dean’s Excellence Fund for Medical Education. $37,400/yr. The Effect of Extraoperative Bench Model Fidelity on Training Fiberoptic Orotracheal Intubation Skills for Intraoperative Performance. 2004-2006


Karkouti K, Wijeysundera DN. Canadian Anesthesia Research Foundation. $30,000. The RICH study: Renal insufficiency in cardiac surgery: The role of hemodilution. 2004-2005

Karkouti K. 2004 Dr. Earl Wynands Research Award in Cardiovascular Anesthesia. $30,000. 2004-2005

Karkouti K. Canadian Institutes of Health Research / CBS New Investigator Award. (CIHR) $50,000/yr (5 years). 2002-2007

Karkouti K et al. Canadian Institutes of Health Research (CIHR). $82,000. Development and validation of a clinical prediction rule for massive blood loss in cardiac surgery. 2005-2006


Katz J. Canadian Institutes of Health Research.- Canada Research Chairs- Tier I. CRC in Health Psychology at York University. $200,000/yr (5 years) 2002-2009


Kavanagh B. Canadian Institutes of Health Research (CIHR). $250,000. Therapeutic Hypercapnia. 2002-2007


Lu W-Y. NARSAD (National Alliance of Reserch for Schizophreniz and Depression, USA). 30,000USD. 2 years

Mak PHK. University of Toronto, Faculty of Medicine Dean’s Fund. $10,000. Peri-operative Anesthetic Induced Autonomic Dysfunction in Young and Elderly Patients. December 2004.


Naik VN, Savoldelli GL, Park J, Joo HS, Chow R, Hamstra SJ. Dean’s Fund. $10,000. The Effect of Videotape Feedback on Anesthesia Trainees’ Performance during Simulation-based Education. 2004-2005

Orser B. Canada Research Chair in Anesthesia, Tier 2. $100,000/yr. Anesthetic Drugs from Molecular Mechanisms to Patient Safety. 2003-2008.


Orser B. Premier’s Excellence Research Award, Ontario Ministry of Health. $100,000. The molecular identity and function of tonic GABA-A receptors: A novel target for anaesthetics, antiolytics and anticonvulsant drugs. 2001-2006

Orser B. (Co-Investigator) Canadian Institutes of Health Research (CIHR). $65,247/yr. A multi-institutional evaluation of a checklist intervention to structure communication and promote patient safety in the operating room. 2004-2010


Stevens BJ, Asztalos, EV, Gibbins, SA, Katz JD, McKeever, PD, Pillai Riddell, RRE. Canadian Institutes of Health Research (CIHR) 1st Year $41,674, 2nd Year $50,000, 3rd Year $50,000. Understanding chronic pain in infancy. 2005-2008


Wijeysundera DN. Canadian Institutes for Health Research Fellowship (CIHR). $55,000/yr (2 years). 2004-2006


Wong J. Physicians’ Services Incorporated Foundation (PSI). $38,000. Tranexamic acid for major spine surgery. 2005

Yang H. Beattie WS. Canadian Institutes of Health Research. (CIHR). $1,200,000/yr (5 years) (Multi-Center Study). POISE, Peri-Operative Ischemic Evaluaution Study. 2002-2007


Zhang H. Canadian Institutes of Health Research (CIHR)/Canadian Lung Association/Glaxo-SmithKline Fellowship Award to support Aye Aye Khine. $45,000. 2004-2005

Zhang H. Canadian Cystic Fibrosis Foundation Studentship to support graduate student Stefanos Voglis. $18,000. 2004-2005
NON PEER REVIEWED GRANTS

**Chung F, Friedman Z.** GlaxoSmithKline. $80,000 Multicenter, Randomized, Double-blind, Placebo-controlled, Dose-ranging, Parallel Group Phase II Study to Evaluate the Safety, Efficacy, and Pharmacokinetics of the Oral Neurokinin-1 Receptor Antagonist, GW679769, When Administered with Intravenous Ondansetron Hydrochloride for the Prevention of Post-operative Nausea and Vomiting (PONV) and Post-discharge Nausea and Vomiting (PDNV) in Female Subjects with Known Risk Factors for PONV Who are Undergoing Surgical Procedures Associated with an Increased Emetogenic Risk. 2004-2005

**Fisher J.** United States Marine Corps Systems Command. $240,000US. Development of portable O2 concentrator for battlefield use. November 2004

**Fisher J.** United States Army. $500,000US. Battlefield respiration and ventilation assistance for biohazard-contaminated field conditions. (First Phase of 5 Year) November 2005

**Fisher J.** United States Congress 5-year Grant. $6,000,000US. Battlefield respiration and ventilation assistance for biohazard-contaminated field conditions. 2005

**Fisher J.** United States Marine Corps Systems Command. $1,000,000US. Testing for highly mobile oxygen supplementation system and investigation of feasibility of integrating with battlefield ventilation device 2005

**Karkouti K.** Novo-Nordisk. $130,000. Development and validation of a prediction rule for massive blood loss. 2004-2005

**Loke J.** Educational Grant – Halton Healthcare Services 2005. $250. 2005

**Mazer CD.** Hemosol, Inc. $106,000. The Effect of Different Preparations of HBOCs on Blood Pressure. 2003-2005

**Orser B.** Merck Sharp Dohme Ltd. $40,000. GABA_A receptors containing the α5 subunit are plausible targets for the development of cognitive-enhancing drugs.