A year that began in the shadow of SARS ended with enormous success at the CAS meeting in Québec City. Despite, or because of, the seriousness of SARS, the Department showed its ingenuity at each of the hospitals affected. At Sunnybrook, the intensivists described their management that differed from that at UHN, described by Frances Chung in the British Journal of Anaesthesia and by Philip Peng in the Canadian Journal of Anesthesia. Rick Cooper was in constant demand as a speaker to describe the technique that was recommended on the CAS web site. When St. Michael’s became a SARS referral centre Simon Abrahamson perfected their fibreoptic intubation technique in the Simulation Centre. Finally, with perhaps the most innovative suggestion, Joe Fisher showed how a new Oxygen mask decreased environmental pollution and, potentially, the spread of the SARS virus.

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.

Research activity continued to improve in 2003-4. The value of grants received ($3.55m) increased by nearly 15%, the majority peer-reviewed. Publication in peer-reviewed journals increased from 150 to 184. Interestingly, contributions to anesthesia journals accounted for about 60%, but only 14% to CJA.

At the end of the academic year, discussions were starting with other disciplines to examine the role of simulators in the education of physicians and other health care professionals. The Department has a long history in the field, after introducing the first whole-body high fidelity simulator at Sunnybrook Hospital ten years ago. It is hoped that the multidisciplinary talks among Anesthesia, other Surgical specialties, Obstetrics, Pediatrics and the Michener Institute for Applied Health Sciences will result in a virtual Simulation Centre spread across the city.

Faculty were successful at the CAS meeting in research grants awarded, prizes won and for the quality of their presentations:

CAS Research Award
Dr. Viren Naik – St. Michael’s Hospital

Dr. R.A.Gordon Clinical Research Award
Dr. Pamela Morgan – Women’s College Hospital
Dr. Earl Wynands Research Award in Cardiovascular Anesthesia –
Dr. Keyvan Karkouti - TGH.

CAS Clinical Teacher Award
Dr. John Bradley – TGH

Residents’ Research Award:
1st prize – Tejinder Chhina
2nd prize – Eric You-Ten

Best Ambulatory Anesthesia paper
Ricky Brull

Best CVT Paper
Yuji Hirasaki

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 Bevan
Professor and Chair
# ANAESTHESIA FELLOWS 2003/2004

## The Hospital for Sick Children

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## St. Michael's Hospital

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## Sunnybrook and Women’s College Health Sciences Centre

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## UHN/Toronto General Hospital

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## UHN/ Toronto Western Hospital

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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

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

The Dr. Gerald Edelst 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
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

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

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

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

**FACULTY TEACHING AWARDS**

David McKnight Received the 2004 Award for Excellence in Postgraduate Medical Education

**HOSPITAL TEACHING AWARDS**

Bruno Bissonnette Hospital for Sick Children The Josie Walther Memorial Award
Lisa Isaac Hospital for Sick Children Award for Excellence in Clinical Teaching
Cengiz Karsli Hospital for Sick Children Award for Excellence in Clinical Teaching
Vincent Hughes St. Michael’s Hospital Dr. A.J. Dunn Award for Undergraduate Teaching
Jeffrey Wassermann St. Michael’s Hospital Dr. A.J. Dunn Award for Postgraduate Teaching

**NATIONAL AND INTERNATIONAL AWARDS**

John Bradley Received the 2004 Clinical Teacher Award from the Canadian Anesthesiologists’ Society (CAS).

Gregory Hare CAS Richard Knil Research Award. “Anemia causes increased cortical nNOS mRNA levels in rats”.

Beverley Orser Awarded a Canada Research Chair (CRC)
STUDENT AWARDS AND ACHIEVEMENTS

Valerie Caraiscos  Received the Roncari Book Prize for academic contributions to the Institute of Medical Science (IMS)

Victor Cheng (MSc)  Received a studentship from the Savoy Foundation  
(Supervisor: Beverley Orser)

Dermot Doherty  Baxter Fellows Prize (for presenting the best fellows paper at Shields Research Day)

Seth Galton  American Academy of Pediatrics Resident Research Award, presented at the Society for Pediatric Anesthesiameeting, Phoenix, Arizona. (Supervisor: Dr. Mark Crawford)
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

Committee Chairs:
Peter Slinger    Continuing Education
Patricia Houston    Awards
Patricia Houston    Gender Issues Committee
David McKnight    Postgraduate Education
David Mazer    Research
Pamela Morgan    Undergraduate Education
Beverley Orser    Promotions Committee
UNDERGRADUATE EDUCATION COMMITTEE

UGE Chair: Dr. Pamela Morgan Sunnybrook & Women’s College HSC

Preclerkship Coordinator: Dr. Isabella Devito Mount Sinai Hospital

Clerkship Course Director: Dr. Pamela Morgan Sunnybrook and Women’s College Health Sciences Centre

Committee Members:

- Dr. L. Bahrey Toronto General Hospital
- Dr. Dr. Bevan Chair, Department of Anesthesia
- Dr. I. Devito Mount Sinai Hospital
- Dr. D. Djordjevic Sunnybrook and Women’s -Women’s College Site
- Mr. Kevin Lai Student Representative – Year 3
- Dr. Alan Lee Toronto General Hospital
- Mr. Nick Lo Student Representative – Year 4
- Dr. E. McLeod Hospital for Sick Children, Electives
  Committee Representative
- Dr. B. Middleton Toronto Western Hospital
- Dr V. Naik St. Michael’s Hospital
- Dr. J. Tarshis Sunnybrook and Women’s - Sunnybrook Site

The Undergraduate Education Committee of the Department of Anesthesia 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 Anesthesia is also a committee member. The full committee meets monthly and manages all aspects of undergraduate teaching involving the University Department of Anesthesia.

The 2003-2004 academic year was a challenging one due to effects on the length of the curriculum due to repercussions from interruption in the previous year resulting from the SARS outbreak.

The challenges continue as students now receive 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.
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. Viren Naik  St. Michael's Hospital

ASCM II Tutors
Dr. Ken Lin  St. Michael's Hospital

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

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. 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

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
The 7th Anaesthesia Information Evening for medical students was held in November 2003 under the leadership of Dr. I. Devito with the help of our third year medical student representative, Kevin Lai. There were representatives from faculty involved in research, intensive care, regional anesthesia, 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**
Anesthesia and Emergency Medicine share a six-week block in the fourth year clerkship. There are three two-week anesthesia 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. The written examination is marked centrally by two hospital coordinators. Anesthesia 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 course evaluations following their rotation.

**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 and Women’s College Health Sciences Centre. Five scenarios were developed with associated learning objectives. During the session each student had the opportunity to experience a scenario which included management of an unstable cardiac arrhythmia. Students were encouraged to solicit help from their classmates and to verbalize their thoughts and management plans. After completion of the scenarios faculty facilitated a feedback session using the videotape of the students' management of the scenarios.

**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. M 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. Djordjevic
Dr. R. Ko
Dr. A. Lee
Dr. E. McLeod
Dr. W. Middleton
Dr. P. Morgan
Dr. V. Naik
Dr. J. Tarshis

RESIDENTS
Dr. A. Abraham
Dr. R. Dumais
Dr. S. Hakim
Dr. J. Kong
The Postgraduate Education Committee of the Department of Anesthesia is composed of the Program Coordinators in charge of the teaching program at each hospital, the Resident Counsellors, the Associate Director of Education, the Seminar Curriculum Coordinator, and one resident member from each of the PG year levels (elected by peers). It is chaired by the Program Director. The Committee meets monthly to oversee all aspects of the training program in anesthesia. Its responsibilities include selection, evaluation, and promotion of residents, and the design, operation, and evaluation of the teaching program.
In the 2003-2004 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.

In the annual CaRMS Match, we continued our format of major interview days with multiple interviewers and interviewed a total of 61 candidates. We were very pleased with the results of our match and filled all of our thirteen positions with highly ranked candidates. We also enrolled another Ontario International Medical Graduate Program resident and two new foreign funded residents from Saudi Arabia.

The Fellowship Program continues to be very active. There were 74 fellows from 20 countries in 2003–2004.

The annual Shields Anesthesia Research Day was held on Friday, May 14, 2004 at the Metro Convention Centre. The Shields Lecture, “Unraveling Clinical Problems in the Anesthesia Lab” was delivered by Dr. John Drummond from the University of California, San Diego.

The following awards were won at the 2004 Shields Day:

- The Hynek Rothbart Award for best Resident presentation: Dr. Eric You-Ten for his presentation: “Amnestic Effects of Anesthetics: Sub-MAC Concentrations of Isoflurane Target Specific GABA-A Receptors in Mouse Hippocampus.”
- The Baxter Award for the best Fellows presentation: Dr. Dermot Doherty for his presentation: “Hypothermia in Cardiac Arrest.”
- The Thomas Donald Hammel Award: Dr. Shawn Mawhinney
- The Alan K. Laws Travel Award: Dr. Ricky Brull
- The Dr. John Desmond Award: Dr. Dragan Djordjevic
- The Dr. Gerald Edelist Award: Dr. Mary-Ellen Cooke

Our residents were also very successful at the Canadian Anesthesiologists Society Annual Meeting. The following awards were won:

- Dr. Tejinder Chhina: 1st prize in the residents competition and The AIRE award for Best Abstract in Blood Conservation for his presentation: “Effect of Recombinant Factor VIIa on Vascular Graft Patency.”
- Dr. Eric You-Ten: 2nd prize in the residents competition for his presentation: “Sub-MAC Concentrations of Isoflurane Target Novel Murine GABA-A Receptors.”
Dr. Ricky Brull: The Pain/Regional Anesthesia Award for Best Abstract for his presentation: “Regional Anesthesia vs. General Anesthesia for Ambulatory Hand Surgery.”

In 2004, thirteen 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 2003-2004

### PGY1
- Bernstein, Steven  
- Darani, Rosemin  
- Hrdina, Josef  
- Marinov, Anton  
- Weiss, Dov  
- Brunton, Jennifer  
- Darby, Peter  
- Ko, Samuel  
- Marwaha, Jasvir  
- Clarke, Hance  
- Flett, Heather  
- Ligori, Tania  
- Simms, Kathryn

### PGY2
- Abbass, Ali Akbar  
- Alqasim, Rashad  
- Ford, Meredith  
- Kumar, Rohit  
- Tamir, Diana  
- Abbass, Ali Asghar  
- Bloom, Michael  
- Grossi, Danny  
- Lee, Hoi Kwan  
- Trigazis, Leo  
- Al-Kemyani, Nasser  
- Chang, David  
- Kong, Jonathan  
- McHardy, Paul  
- Welke, Timothy

### PGY3
- Al Atassi, Abdulaleem  
- Gislason, Rachel  
- Pronovost, Antoine  
- Szeto, Michael  
- Yudin, Mark  
- Chaput, Alan  
- Kealey, Alayne  
- Rucker, Joshua  
- Tan, Jens  
- Yue, Randy  
- Chatterson, Kelly  
- Malik, Nariman  
- Salman, Aliya  
- Tibbet, Juliana

### PGY4
- Agellon, John  
- French, Susan  
- Heier, Krista  
- Jamensky, Neil  
- Singh, Dave  
- You-Ten, Eric  
- Bachler, Tony  
- Green, Andrew  
- Idestrup, Chris  
- Railton, Craig  
- Tanaka, Steven  
- Coombes, Robin  
- Hakim, Sania  
- Irwin, Darryl  
- Sarjeant, Jennifer  
- Vora, Harish

### PGY5
- Abraham, Alan  
- Chhina, Tejinder  
- Esufali, Zak  
- Jin, Fengling  
- Sikka, Suzie  
- Blight, Kathy  
- Choi, Mabel  
- Hew, Jeremy  
- Joglekar, Amit  
- Vuckovic, Dejan  
- Brull, Richard  
- Dumais, Robert  
- Hick, Anthony  
- Mawhinney, Shawn  
- Wijeysundera, Duminda
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 12, 2003**  
Pitfalls in Writing Scientific Manuscripts  
Dr. David Bevan

**November 19, 2003**  
Computer Literature Search 1  
Ms. E. Uleryk

**November 26, 2003**  
Computer Literature Search 2  
Ms. E. Uleryk

**December 3, 2003**  
Bibliographic Software Management Systems  
eg. EndNote, Reference Manager  
Ms. Adams-Webber

**December 10, 2003**  
How to set up a Research Laboratory  
Dr. Daisy Joo

**December 17, 2003**  
Issues in Informed Consent  
Dr. Joan Bevan

**January 7, 2004**  
Randomized Clinical Trials, Hypothesis Testing  
Dr. Patricia McGrath

**January 14, 2004**  
Systematic Reviews  
Dr. Patricia McGrath

**January 21, 2004**  
Measurement scales  
Ms. Nancy Sikich

**January 28, 2004**  
Databases/Handling data  
Dr. Guy Petroz

**February 4, 2004**  
Statistics 1: Tests for parametric data: two groups  
Dr. M. Crawford

**February 11, 2004**  
Statistics 2: Sample size and Power analysis  
Dr. M. Crawford
<table>
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<tr>
<th>Date</th>
<th>Event Description</th>
<th>Instructor</th>
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<tr>
<td>February 18, 2004</td>
<td>Statistics 3: Confidence intervals</td>
<td>Dr. M. Crawford</td>
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<tr>
<td>February 25, 2004</td>
<td>Statistics 4: Tests for ordinal data</td>
<td>Dr. M. Crawford</td>
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<tr>
<td>March 3, 2004</td>
<td>Statistics 5: ANOVA 1</td>
<td>Dr. H. El-Beheiry</td>
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<tr>
<td>March 10, 2004</td>
<td>Statistics 6: ANOVA 2</td>
<td>Dr. H. El-Beheiry</td>
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<tr>
<td>March 24, 2004</td>
<td>Statistics 7: Simple linear regression, correlation</td>
<td>Dr. H. El-Beheiry</td>
</tr>
<tr>
<td>April 7, 2004</td>
<td>Statistics 8: Tests for non-parametric data</td>
<td>Dr. M. Crawford</td>
</tr>
<tr>
<td>April 14, 2004</td>
<td>Statistics 9: Logistic regression and Multivariate</td>
<td>Dr. H. El-Beheiry</td>
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<td></td>
<td>analysis</td>
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<td>April 28, 2004</td>
<td>Slide Making (Powerpoint)</td>
<td>Dr. Richard Cooper</td>
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<tr>
<td>May 5, 2004</td>
<td>Scientific Misconduct</td>
<td>Dr. Joan Bevan</td>
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<tr>
<td>May 12, 2004</td>
<td>Authorship</td>
<td>Dr. B. Bissonnette</td>
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<td>May 19, 2004</td>
<td>Critical Appraisal</td>
<td>Dr. Alex Jadad</td>
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<tr>
<td>May 26, 2004</td>
<td>Relationships with Pharmaceutical Companies</td>
<td>Dr. Robert Byrick</td>
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<tr>
<td>June 2, 2004</td>
<td>How to get your paper published</td>
<td>Dr. Frances Chung</td>
</tr>
<tr>
<td>June 9, 2004</td>
<td>How to get money for your research – tips in writing grants</td>
<td>Dr. Beverly Orser</td>
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THE CLINICIAN-SCIENTIST STREAM

The Department of Anaesthesia 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 anaesthesiologists 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 anaesthesia trainees for careers as independent investigators in academic departments
- provide an opportunity for residents to contribute to the expansion of the fundamental understanding of anaesthesia
- attain the above objectives in the context of excellent clinical training

The clinician-scientist stream is a component of the postgraduate training programme in Anaesthesia. 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 Anaesthesia.

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 anaesthesia
- clinical epidemiology/outcomes research
- cardiovascular and cardiopulmonary physiology
- research in education
- clinical pharmacology
- neurophysiology
- pain research
Application to the Clinician-Scientist Stream:
Residents in the anaesthesia 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 anaesthesia resident or junior fellow (1-2 years after completing postgraduate training in anaesthesia).

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

The candidate will have a faculty supervisor approved by the Chair of the Department of Anaesthesia, 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 anaesthesia/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 anaesthesia training in England and moved to Toronto in 1966 as a Research Fellow, working with Dr. Barrie Fairley, a clinical anaesthetist at the Toronto General Hospital. As a clinician-scientist, he studied the effects of anaesthesia 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 Anaesthesia 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 anaesthesia practised elsewhere.
SHIELDS ANESTHESIA RESEARCH DAY

The 25th annual Shields’ Research Day was held at the Metro Convention Centre on May 14, 2004.

Shields Lecture: Dr. John Drummond, Professor and Chair, Department of Anesthesiology at University of California, San Diego. Title: Unraveling Clinical Problems in the Anesthesia Research Lab

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

1. Dr. M. Ronayne (Fellow). *Impact of fast-tracking on recovery time and nursing workload.* (Supervisor: Dr. F. Chung)

2. Dr. J. Symon (Fellow). *Cytokine response to erythropoietin in cardiac surgery.* (Supervisor: Dr. S. McCluskey)

3. Dr. R. Edward (Fellow). *Driving impairment following ambulatory surgery.* (Supervisor: Dr. F. Chung)

4. Dr. A. Chaput (Resident). *Prospective evaluation of post-partum headaches occurring within one week of delivery: incidence, severity and risk factors.* (Supervisor: Dr. A. Macarthur)

5. Dr. S. Tsuchida (Fellow). *Is lung recruitment protective or harmful?* (Supervisor: Dr. B. Kavanagh)

6. Dr. E. You-Ten (Resident). *Amnestic effects of anesthetics: Sub-MAC concentrations of isoflurane target specific GABA-A receptors in mouse hippocampus.* (Supervisor: Dr. B. Orser)

7. Dr. S. Galton (Fellow). *Postoperative opioid consumption in sickle cell disease.* (Supervisor: Dr. M. Crawford)

8. Dr. A. Van Rensburg (Fellow). *FVIIa for refractory bleeding after cardiac surgery: A propensity analysis.* (Supervisor: Dr. K. Karkouti)

9. Dr. V. Cheng (Graduate student). *Gabapentin increases GABAergic Tonic Inhibition.* (Supervisor: Dr. B. Orser)

10. Dr. G. Wong (Fellow). *Retrospective study of paravalvular leaks detected by TEE.* (Supervisor: Dr. C. LaFlamme)
11. Dr. A. Kornecki (Fellow). *Infants are less susceptible than adults to ventilator-induced lung injury.* (Supervisor: Dr. B. Kavanagh)

12. Dr. J. Tan (Resident). *Obstacles to proper timing of prophylactic antibiotics: A qualitative analysis.* (Supervisor: Dr. V. Naik)

13. Dr. T. Chhina (Resident). *Effect of recombinant Factor VIIa on rabbit vascular graft patency.* (Supervisor: Dr. D. Mazar)

14. Dr. B. Yee (Fellow). *Behavioural performance during anesthesia crises with repeated exposure to patient simulation.* (Supervisor: Dr. V. Naik)

15. Dr. D. Doherty (Fellow). *Hypothermia in cardiac arrest.* (Supervisor: Dr. J. Hutchison)

16. Dr. C. Railton (Resident). *Perioperative ACE inhibitor use and post operative outcome.* (Supervisor: Dr. S. Belo)

17. Dr. J. Hsu (Graduate student). *Transfusion practice in critically ill patients.* (Supervisor: Dr. K. Karkouti)

18. Dr. A. Shenderey (Fellow). *Insulin infusion during cardiopulmonary bypass.* (Supervisor: Dr. S. Belo)

19. Dr. J. Jung (Fellow). *Heart rate variability: A predictor of cardiac morbidity after coronary artery bypass graft surgery.* (Supervisor: Dr. G. Djaiani)

20. Dr. M. Lukins (Fellow). *IV morphine or IM codeine for post craniotomy analgesia.* (Supervisor: Dr. P. Manninen)

21. Dr. R. Katznelson (Fellow). *In cardiac surgery, blood volume accounts for the increased risk in women.* (Supervisor: Dr. K. Karkouti)
CONTINUING EDUCATION COMMITTEE

CME Chair: Dr. Peter Slinger

Committee Members:

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
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<tr>
<td>Dr. Pamela Angle</td>
<td>Sunnybrook and Women’s College Health Sciences Centre</td>
</tr>
<tr>
<td>Dr. Karen Cybulski</td>
<td>Hospital for Sick Children</td>
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<tr>
<td>Dr. Sharon Davies</td>
<td>Mount Sinai Hospital</td>
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<td>Dr. Leonard Eisen</td>
<td>Mount Sinai Hospital</td>
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<tr>
<td>Dr. Mark Friedlander</td>
<td>North York General Hospital</td>
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<td>Dr. Charles Knapp</td>
<td>North York General Hospital</td>
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<tr>
<td>Dr. Carol Loffelmann</td>
<td>St. Michael’s Hospital</td>
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<tr>
<td>Dr. Jordan Tarshis</td>
<td>Sunnybrook and Women’s College Health Sciences Centre</td>
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<tr>
<td>Dr. Martin van de Vyver</td>
<td>Sunnybrook and Women’s College Health Sciences Centre</td>
</tr>
<tr>
<td>Dr. Jean Wong</td>
<td>University Health Network, Western Division</td>
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</table>

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. Under the direction of Dr. Martin Van der Vyver, this two-day course provided 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:

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)
9. Pediatric Anesthesia, Nov. 2005, contact: Larry Roy (roy@anaes.sickkids.on.ca)

City Wide Rounds
Anesthesia Video-conference Pain Management rounds, begun in 2003 by Dr. Joe Kay (SHSC) will be continued in 2004-5, with 6 scheduled Rounds.
The Committee has begun a program of U of T Anesthesia Video-Conference Rounds for 2004-5. This program plans 4 Video-Conference Grand Rounds originating from each of the main teaching centers. Initially these Rounds will be linked to all of the U of T Teaching Centers with the plan to extend to link with Community hospitals if successful.

Web-Based Learning
A website containing four educational modules which can be accessed through http://anescme.med.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.
RESEARCH COMMITTEE

Research Chair:  David Mazer

Committee Members:

Andrew Baker  St. Michael's Hospital
David Mazer  St. Michael's Hospital
Mark Crawford  Hospital for Sick Children
Joan Bevan  Ethics, SWCHSC (Women's College Campus)
Alejandro Jadad  University Health Network (Toronto General Hospital)
Ludwik Fedorko  University Health Network (Toronto General Hospital)
Hossam El-Beheiry  University Health Network (Toronto Western Hospital)
Alison Macarthur  University Health Network (Mount Sinai Hospital)
Beverley Orser  SWCHSC (Sunnybrook Campus)
Pamela Angle  SWCHSC (Women's College Campus)
Duminda Wijeysundera  Trainee Representative

Research Productivity and Funding Support

The 2003-2004 academic year saw a continued increase in research activities. Peer reviewed awards were the major source of funding with generous support in cardiorespiratory, critical care, technology and pain research areas. Neuroanesthesia, education, ambulatory and obstetrical anesthesia also continue to be well supported. CIHR funding was responsible for almost 20% of overall grants.

The department remained competitive with other leading Departments of Anesthesia in North America with 186 peer reviewed publications, 155 abstracts and 31 book chapters published this year (please refer to list of publications).

At the 2004 Canadian Anesthesiologists' Society meeting, the following department members received prominent research awards:

Dr. Viren Naik – CAS Research Award for "Behavioural performance in anesthesia crisis management with repeated exposure to high fidelity patient simulation"

Dr. Pamela Morgan – RA Gordon Research Award for "Maximizing patient safety: high-fidelity simulation for obstetrical emergencies"

Dr. Keyvan Karkouti – Earl Wynands Research Award in Cardiovascular Anesthesia and/or Perioperative Blood Conservation for "The RICH study: renal insufficiency in cardiac surgery: the role of hemodilution"
Dr. Tejinder Chhina – Residents' Competition (1st prize) and the Anemia Institute for Research and Education award for "Effect of recombinant Factor VIIa on rabbit vascular graft patency"

Dr. Yuji Hirasaki – Best CVT Section poster for "Evaluation of vascular anastomoses with TEE in lung transplantation"

Dr. Richard Brull – Best Ambulatory Presentation for "Regional anesthesia vs general anesthesia for ambulatory hand surgery"

Other Grants and Awards

- Dr. Joel Katz received a CIHR grant for his study: "Understanding risk factors, co-morbidity, and global health issues in PTSD: laying foundation for early identification in at-risk populations and improving preventive and treatment strategies for all Canadians".

- Dr. Jason Hayes received the Dean's Fund grant for his project: "Effect of creatine monohydrate on respiratory muscle strength and endurance in Duchenne Muscular Dystrophy".

- Dr. Brian Kavanagh was awarded a CIHR grant for his study: "Ventilator-induced lung injury: linking gene activation, physiology and outcome".
- Drs. Pamela Morgan and Doreen Cleave-Hogg received two Dean's Excellence Fund grants for their studies: "Procedural skills development using simulated models" and "Applying theory to practice in a high-fidelity simulation centre".

- Dr. Joe Fisher was awarded grants from the US Marine Corps Systems Command and (U.S.) Veterans Affairs for his study: "Development of highly efficient mobile oxygen delivery system".

- Dr. Frances Chung received a PSI grant for her project: "Elimination of preoperative testing in low-risk day surgery".

- Dr. Viren Naik received the Dean's Excellence Fund for Medical Education for his study: "The effect of extraoperative bench model fidelity on training fiberoptic orotracheal intubation skills for intraoperative performance".

- Dr. Haibo Zhang received a Canada Foundation of Innovation maintenance grant for his study: "Molecular mechanisms of neutrophil defensins in lung inflammation and injury".
PUBLICATIONS


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 α5 subunit-containing GABA_A receptors. Proc Nat Acad Sci USA 2004; 101(10):3662-67


Gagliese L, Fillingim R. Age and sex interactions in pain. The International Journal of Sex Differences In The Study Of Health, Disease and Aging 2003; 1:1-8


Lahoz DE, Espada EB, Carvalho JCA. Extraconal block for cataract extraction surgery with implantation of intraocular lens: contribution of fentanyl associated to local anesthetics to the quality of block and postoperative analgesia. Rev Bras Anestesiol 2003; 53:591-599.


Luginbuehl IA, Karsli C, Bissonnette B. Cerebrovascular reactivity to carbon dioxide is preserved during hypocapnia in children anesthetized with 1.0 MAC, but not with 1.5 MAC desflurane. Can J Anesth 2003; 50:166-171.


Sikich N, Lerman J. Development and Psychometric Evaluation of the Pediatric Anesthesia Emergence Delirium Scale. Anesthesiology 2004; 100(5):1138


Wilson-Smith E, Karsli C, Luginbuehl IA, Bissonnette B. Effect of nitrous oxide on


BOOK CHAPTERS


ABSTRACTS
(Published in indexed Journals)


Caraiscos VB, MacDonald JF, Orser BA. Enhancement of glycine receptor function by PI3 kinase but not zinc. Soc for Neuroscience. A572.4.

Carroll J, Djaiani G, Fedorko L, Borger M‡, Mikulis D†, Karski J. Affiliation: department of anesthesiology, neuroradiology†, and division of cardiac surgery‡, Toronto General Hospital, University Of Toronto, Toronto, Canada. Key West 2004.


Dong H, Xiang Y-Y, Lu W-Y. Excessive inactive acetylcholinesterase impairs glutamatergic synaptic structure and functions. Soc for Neuroscience, 2004; 612.18


Elliot EM, MacDonald JF, Orser BA. Tonic but not synaptic inhibitory current in murine hippocampal neurons is enhanced by low concentrations of the β2/3 subunit selective anesthetics, etomidate. Soc for Neuroscience. 2003; Abstracts 571.2.


Hare G, Mazer CD, Li X, Cheung MS, Qu R, Baker AJ. Anemia Increases Rat Cerebral Cortical nNOS Protein Levels at Clinically Relevant Hemoglobin Concentrations. Anesth Anal 2004; 98(S-1-S-282):S-137.


Karkouti K, Djaiani G, Beattie WS. Low hematocrit during cardiopulmonary bypass is associated with increased risk of stroke in adult cardiac patients. SCA 2004

Karkouti K, Djaiani G, Beattie WS. The degree of hemodilution during cardiopulmonary bypass is related to renal failure in adult cardiac surgery. SCA 2004

Karkouti K, Djaiani G, Fedorko F, Wijeysundera D, Shayan C, Ivanov J, Borger M, Karski J, Beattie WS. Low hematocrit during cardiopulmonary bypass is associated with increased risk of stroke in adult cardiac surgery department of anesthesiology & division of cardiac surgery, Toronto General Hospital, UHN, University Of Toronto, SCA 2004

Karkouti K, Djaiani G, Fedorko L, Wijeysundera D, Ivanov J, Borger M, Karski J, Ghannam M, Beattie W. Low hematocrit during cardiopulmonary bypass is associated with increased risk of stroke in adult cardiac surgery. SCA. Hawaii, USA. 2004
Karkouti K, Djaiani G, Wijeysundera D, Ivanov J, Borger M, Karski J, Beattie WS. The degree of hemodilution during cardiopulmonary bypass is related to renal failure in adult cardiac surgery. Department Of Anesthesiology & Division Of Cardiac Surgery, Toronto General Hospital, UHN, University Of Toronto, SCA 2004


Karsli C, Luginbuehl I, Bissonnette B. Hypocapnia below 30mm Hg for neuroprotection may be unnecessary in children receiving propofol. World Congress of Anesthesia, Paris, 2004.


Katznelson R, Karkouti K, Ghannam M, Abdelnaem E, Carroll J, McCluskey S, Yau TM, Karski J. In cardiac surgery, blood volume accounts for the increased risk in women. CAS 2004


Souzdalnitski D, Sourovtseva E, Livingstone D, Faclier G, Robinson SJ, Sawyer J, RN, Yee DA. Economic evaluation of an Acute Pain Service (APS): can break-even

**Speakman M, Crawford MW, Carver ED, Kim PCW.** Acute chest syndrome after abdominal surgery in sickle cell disease. Anesthesiology 2003; 99:A1426


INVITED LECTURES

Angle P.

University of Toronto Pain Conference. Development of a Multi-attribute Health Index to Measure the Quality of Neuraxial Analgesia (the QLA Index), June 2004


Labour Analgesia Seminar (and teaching video creation) for Labour & Delivery Nurses, at Women’s College Campus, Sunnybrook and Women’s College Health Sciences Centre. Toronto, Ontario. February 2004.


Development of A Multi-Attribute Health Index to Measure the Quality of Labour Analgesia, Women’s College Campus, Sunnybrook and Women’s College Health Sciences Centre. September 2003.


Baker A.


**Bevan D.R.**
Visiting Professor, Department of Anesthesia, University of Manitoba. November 26-27, 2003


UHN Surgical Grand Rounds. Pain Protocols at UHN. January 16, 2004

Anesthesia Rounds. Anesthesia Toronto 2003. Where are we? Where are we going?” Hospital for Sick Children. January 23, 2004

IARS 78th Clinical and Scientific Congress, Panel Discussion: Misconduct. Tampa. March 2004

**Bohn D.**


Brown S.C.


Byrick R.


Carvalho J.


Chan V.
Canadian Anesthetists’ Society 60th Annual meeting. Speaker – Symposium on Applying ultra-sound technology in Anesthesia: Ultrasound for line placement., Quebec City, QC. June 21, 2004


Ultrasound Guided Brachial Plexus Blocks, Ultrasound and Regional Anaesthesia International Symposium. Schwetzingen, Germany. April 3, 2004


29th Annual Spring Meeting, American Society of Regional Anesthesia & Pain Medicine. Speaker, Ultrasound – An Innovative Approaches to Teaching Regional Anesthesia, Orlando, Florida. March 13, 2004


3rd International Conference on Pain Control and Regional Anaesthesia. Adjuvants in Neuraxial Blocks, Santiago, Chile. February 2004

3rd International Conference on Pain Control and Regional Anaesthesia. Does postoperative pain management affect outcome? The role of epidural technique, Santiago, Chile. February 2004

3rd International Conference on Pain Control and Regional Anaesthesia. Ultrasound Guided Peripheral Nerve Blocks, Santiago, Chile. February 2004

3rd International Conference on Pain Control and Regional Anaesthesia. Workshop Leader, Update on Transient Neurologic Syndrome, Santiago, Chile. February 2004

3rd International Conference on Pain Control and Regional Anaesthesia. Workshop Leader, Upper Extremity Blocks, Santiago, Chile. February 2004

Continuing Medical Education Course, Gulfcoast Ultrasound Institute, Inc. Ultrasound Guided Nerve Block Techniques and CVC Placement for the Anesthesiologist, Chicago, IL. February 2004
Visiting Professor, Ultrasound and Regional Anesthesia, Department of Anesthesia, University of Western Ontario. January 2004

54th American Society of Anesthesiologists Annual Meeting. Lower Extremity Peripheral Nerve Block: Everything you need to know from the Experts – Video Presentation of Techniques, San Francisco, CA. October 2003

XIth Live Videoconference on Regional Anesthesia. Workshop Leader, Ultrasound Guided Supraclavicular Block, Toulouse, France. October 2003

Managing Pain with Opioids, Department of Anesthesia, William Osler Health Center. Brampton, Ontario. October 2003

Visiting Professor, Regional Anesthesia Case Presentations, Department of Anesthesiology, Mayo Clinic. Rochester, MN. September 2003

Visiting Professor, Ultrasound Imaging for Peripheral Nerve Blocks, Department of Anesthesiology, Mayo Clinic. Rochester, MN. September 2003


Chapman M.

Chung F.
Canadian Anesthetists’ Society 60th Annual meeting. Ambulatory Anesthesia Section Breakfast: How old is too old and how obese is too obese? Quebec City, QC. June 20, 2004

Grand Rounds. Sleep Apnea. St. John Regional Hospital, University of New Brunswick. St. John, NB. June 9, 2004

National Association of PeriAnesthesia Nurses of Canada and Ontario Perianesthesia Nurses Association Conference. Discharge Criteria with a focus on Regional Anesthesia. Hamilton, ON. May 29, 2004

13th World Congress of Anaesthesiologists. Preoperative Selection: How Far Can We Go? Paris, France. April 23, 2004


78th Annual International Anesthesia Research Society meeting. Patient Selection Using Evidence-Based Criteria, Tampa, FL. March 29, 2004


Everett Chalmers Regional Hospital. Anesthesia and Obstructive Sleep Apnea. Frederick, New Brunswick. December 2, 2003


**Cooper R.M.**

Society for Airway Management Annual Scientific Meeting, Miami, FL. “Pro-Con Debate: Cricoid Pressure - friend or foe?” GlideScope, Airway Workshop. September 14, 2003
Society for Airway Management Annual Scientific Meeting, Miami, FL. GlideScope, Airway Workshop. September 14, 2003

Workshop in Airway Management, Campus Bio-Medico di Roma, University School of Medicine, Rome ITALY. Cricoid pressure: why, when and how; Extubation of the Difficult Airway; Laryngoscopy - past, present and future GlideScope® workshop. October 11-12, 2003


Whistler Winter Anesthesia Meeting, Whistler BC. Extubation of the difficult airway, Laryngoscopy—past and future, SARS--Reflections from an Epicenter. February 28-March 5 2004


CAS Annual Scientific Meeting, Refresher Course Lecture. Laryngoscopy 2004 - past and future. Quebec City, PQ. June 19, 2004

CAS Annual Scientific Meeting, Invited lecture. Physicians at Risk: SARS—Once bitten, twice shy or are we? J Quebec City, PQ. June 19, 2004

Cox P.
PALISI Meeting (Principle Investigators Meeting). Park City, UT. January 2004

Canadian Critical Care Congress. Perfluorocarbon as an antiglue. Whistler, BC. February 2004

Society of Critical Care Medicine Educational Symposium. Orlando, FL. February 2004
Canadian Forum on Medical Management to Optimise Donor Potential. Mont Tremblant, QC. February 2004


60th Annual Meeting of the Canadian Anesthesiologists’ Society. The New Epidemics: The Pediatric Perspective. Quebec City, QC. June 2004

University of Toronto Faculty of Medicine, Department of Physical Therapy. Inhalation Injuries. Toronto, ON. June 2004

**Davies S.**


**Djaiani G.**

ISA, New Delhi, India. Presentation: Implications for TEE in Intensive Care Unit. April 2004

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


**El-Beheiry H.**
Toronto Anesthesia Symposium. Workshop, Airway Gadgets Toronto, Ontario, April 4, 2004

**Fisher J.**


**Gagliese L.**


**Gardner-Nix J.**


Medical Grand Rounds, Sunnybrook & Women’s College Health Sciences Centre. Management of Non Cancer Pain, with colleagues Dr. Gil Faclier and Dr. Ted Robinson. January 2004.


Update on Chronic Pain: What the Physician Needs to Know. To Medical staff of West Park Hospital, March 2004.


Annual OMA meeting, Section on Psychiatry, Update on Opioid Management of Chronic Pain. April 2004.


Paper presentation at the 2nd Joint Scientific Meeting of the American Pain Society and the Canadian Pain Society, Vancouver, Canada. Comparison of PRISM (Pictorial representation of Illness and Self Measure) scores and the SF 36 Quality of life questionnaire to assess suffering in chronic noncancer pain patients. May 2004.


Paper presentation at the 2nd Joint Scientific Meeting of the American Pain Society and the Canadian Pain Society. Comparison of PRISM (Pictorial representation of Illness and Self Measure) scores and the SF 36 Quality of life questionnaire to assess suffering in chronic non-cancer pain patients. Vancouver, Canada. May 2004.

Goldszmidt E.


Halpern S.


Hadassah University Hospital. The epinephrine test dose in obstetrical anesthesia, B-sensitivity, specificity and predictive value. Ein Karem, Israel. January 6, 2004


**Hare G.**


**Heggie J.**
Resident Rounds, University Health Network, Toronto General Hospital, Toronto, Ontario. Adults with Congenital Heart Disease, Part 1 & 2. 2004

Cardiovascular Fellow Rounds, University Health Network, Toronto General Hospital, Toronto, Ontario. Adults with Congenital Heart Disease and Anesthesia for Surgical Correction and ICU Management. 2004

Resident Rounds, University Health Network, Toronto General Hospital, Toronto, Ontario. Adults with Congenital Heart Disease. 2003

Resident Rounds, University Health Network, Toronto General Hospital, Toronto, Ontario. Malignant Hyperthermia. 2003

**Jadad A.R.**
25th McMaster World Congress, Hamilton. Are we ready to think about a global health system? Opportunities for Canada to change. January 15, 2004


Agricultural Adaptation Council, Guelph. Agriculture, consumers and health: a needed partnership for the Internet age. February 3, 2004

Patient Safety Research Cluster Symposium, Toronto. Enabling patients to protect themselves: Opportunity in the information age. February 11, 2004

Canadian Association of Chain Drug Stores (CACDS), Markham, Empowering consumers in the Internet age. February 11, 2004

First National Workshop on Cross Cultural Cancer Research and Care: Building Collaborative Communities, Vancouver. Harnessing Canada’s ethno-cultural diversity to strengthen the fight against cancer, worldwide. February 20, 2004

Health Care Technologies, People & Place, Toronto. The future of e-Health: Will we meet our children’s expectations? February 26, 2004
Collaborative Research Program: Rehabilitation & Long-Term Care & Toronto
Rehabilitation Institute Knowledge Exchange Initiative Retreat, Toronto. Best Practice
and Knowledge Translation: Moving to Action. April 6, 2004

Cell signals meeting and workshop, Toronto. Towards global eHealth: translating
knowledge through the Internet to improve the management of pain (presenting with
Jackie Bender). April 15, 2004

American College of Physicians Annual Conference. New Orleans. The role of
innovations in eLearning to improve the management of pain. April 23, 2004

Harkness Fellowship, Health Canada and US Commonwealth, Centre for Global eHealth
Innovation, Toronto. Health services research in the era of the Internet. May 5, 2004

2nd Annual Global Health Research Conference – Mobilizing research to action: a
Canadian contribution. Faculty of Medicine, University of Toronto, Global health
research in the age of the Internet: Opportunities for Canada to become a world player.
May 15, 2004

CAHSPR Conference, Montreal, Knowledge Transfer in an Era of Information
Technology. May 26, 2004

Health Telematics Unit and Southern Alberta Cancer Research Institute, University of
Calgary. To e or not to e: the future of telehealth. June 3, 2004

4, 2004

International Heart Health Conference, Milan, Italy. Internet-based collaboration to
promote global heart health. June 15, 2004

First Annual Conference on Information Technologies at the Point of Care Conference,
Johns Hopkins University, Baltimore. Working with patients as partners at the point of
care. June 18, 2004

6th INET Mini-Conference "Wireless Healthcare”, Toronto. Wireless Internet:
Transforming The Patient / Physician Relationship. June 29, 2004

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

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

Parque Tecnologico de Andalucia, Malaga, Spain. eHealth: new business opportunities in
the Internet age. July 16, 2004
**Joo H.**  

**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. 2004

Michener Institute, Autotransfusion Course, A review of perioperative blood conservation, and an update on related research. 2003

National research forum for young investigators in circulatory and respiratory health. Invited as a “Rising National Star”. Title: Blood loss is a perioperative risk factor. Winnipeg. 2004


Toronto Anesthesia Symposium: Update on the risks and benefits of perioperative blood transfusion. 2004

The Canadian Anesthesia Society Annual Meeting: Chair and speaker of session on Synthetic colloids in fluid management – a new perspective on plasma volume expansion. Ottawa, Canada. 2003


**Karsi J.**  

TGH CV Fellows Rounds. Toronto General Hospital. Internet as a source of medical information. 2004


TGH CV Fellows Rounds. Toronto General Hospital. LVAD in cardiac surgery. 2004


Visiting Professor. Perioperative TEE in Cardiac Surgery. Application and clinical significance of pathological findings. John Paul II Hospital, Department of Cardiovascular Surgery, Cracow, Poland. December 19, 2003

**Karsli C.**
Pediatric Canadian Telehealth Rounds Lecture: Trouble Rounds at the Hospital for Sick Children December 8, 2003

The Hospital for Sick Children PACU Nursing Lecture Series. PALS Update, Mock Code Blue Session. November 25, 2003

**Katz J.**
City Wide Anesthesia Rounds, Sunnybrook and Women’s College Health Science Centre, Toronto, ON. Factors involved in the development and prevention of chronic post-surgical pain. January 16, 2004

Combined University Health Network and Mount Sinai Hospital Anesthesia Rounds, Toronto General Hospital, Toronto, ON. Predictors of chronic post-surgical pain. February 6, 2004

UHN Research Day 2003, University Health Network, Toronto, ON. Virtual Coach for Pain Management: An examination of the questions that patients with cancer have regarding pain associated with cancer. Poster # HI-3, November 17, 2003


**Kavanagh B.**

8th Annual Toronto Critical Care Medicine Symposium. Derecruitment in ARDS. Toronto, Canada. October 2003


Society of Intensive Care Medicine (postgraduate course). Tidal Volume in ARDS – 6-8 mL/Kg for all? Orlando, USA. February 2004

20th Annual CNMC Symposium ECMO & Respiratory Failure. 6mL/Kg in ARDS – Right for Adults, Right for Children? Colorado, USA. February 2004


24th International Symposium on Intensive Care Medicine. Session Chair - Acid-Based Disorders in ICU. Brussels, Belgium. March 2004

American Thoracic Society. Recent Advances in Respiratory Failure In Critical Care. Florida, USA. May 2004


Visiting Professor, Children’s National Medical Center. What’s Normal in Critical Care Medicine? Cincinnati, USA. June 2004
Children’s National Medical Center. Perspectives on C02 and Lung Injury Cincinnati, USA. June 2004

**Kay J.**

**Laflamme C.**


**Lee A.**

**Loke J.C.P.**

U of T City Wide Rounds. Genetic approaches to Malignant Hyperthermia. January 9, 2004

**Manninen P.**


**Macarthur A.J.**
Visiting Professor – Postpartum hemorrhage (resident seminar); Peripartum myocardial ischemia (University department presentation); IV PCA for Labor (Royal Columbian Hospital department presentation), University of British Columbia. Vancouver. January 2004.


Mazer D.


**McCartney C.J.L.**

Canadian Anesthetists’ Society 60th Annual meeting. Symposium on Applying ultrasound technology in Anesthesia: Ultrasound for regional anesthesia, Quebec City, QC. June 21, 2004

Canadian Anesthetists’ Society 60th Annual meeting. Case Discussion: Cardiac arrest under central neuraxial block: etiology, prevention and treatment. Quebec City, QC. June 22, 2004

Speaker, Pro/Con Debate: Regional is Better than GA for Patient Undergoing Major Surgery, Toronto Anesthesia Symposium. Toronto, Ontario. April 3, 2004


Chair, Do volatile anesthetics provide clinically relevant neuroprotection? Oro Restaurant. Toronto. September 2003

**McCluskey S.A.**


McGrath P.A.

McGuire G.

Middleton W.

McRae K.
Tri Hospital Anesthesia Departmental Rounds, UHN. Anesthesia for Myasthenia Gravis Surgery. December 5, 2003

7th Annual Toronto Lung Transplant Retreat. Abdominal sepsis in lung transplant recipients; are patients with alpha-1-antitrypsin deficiency at particular risk? November 21, 2003


Morgan P.J.


Visiting Professor, University of British Columbia, Vancouver, Canada. February 2004.

**Murphy P.**

TEE Clinical Day 2003, Toronto General Hospital. TEE and Mitral Valve What the Surgeon Needs to Know. November 2003


Canadian Anesthesiologists’ 60th Annual Meeting. Anesthesia and Ultrasound Symposium, TEE for Noncardiac Surgery. Quebec City, Quebec, June 2004

**Naik V.N.**

Orser B.


Peng P.
Canadian Anesthesiologists’ Society 60th Annual meeting. Case Discussion: Management of methadone patients in acute-pain service. Quebec City, Quebec. June 20, 2004

Canadian Anesthesiologists’ Society 60th Annual meeting. Chronic Pain Management Section Breakfast: Overview of botulinum toxin. Quebec City, Quebec. June 20, 2004

Canadian Anesthesiologists’ Society 60th Annual meeting. Chronic Pain Management Section Breakfast: Practice issues. Quebec City, Quebec. June 20, 2004

Grand Rounds, Department of Physiotherapy, Mount Sinai Hospital. Failed Back Syndrome, a challenge in management. April 2004


Educational round for Gastrointestinal Resident, University of Toronto, Sedation for GI procedure. February 2004
Perceptorship for chronic pain physicians. Wasser Pain Management Center, Mount Sinai Hospital, Prevalence of chronic pain. September 2003


**Riegert D.**

**Roy W.L.**
Pediatric Anesthesia Rounds. Our Lady’s Hospital for Sick Children, Crumlin, Dublin, Ireland September 24, 2003

Anesthesia Rounds, Department of Anaesthesia. Sydney Children’s Hospital. University of New South Wales. Sydney, Australia October 29, 2003

Pediatric Anesthesia Conference. The Hospital for Sick Children, University of Toronto. Coordinator. November 9-11, 2003


**Slinger P.**
Canadian Anesthesiologist’s Society 60th Annual Meeting, Workshop: Lung Isolation for Thoracic Anesthesia. Quebec City, Quebec. June 2004

Visiting Professor. Department of Anesthesia. Scott and White Memorial Hospital, Texas A&M University, Temple, Texas. June 2004

Visiting Professor. Department. Anesthesia, Beth-Israel Deaconess Hospital, Harvard University, Boston, MA. May 2004

Visiting Professor. Department of Anesthesia. Cliniques Sainte- Luc, Universite Catholique de Louvain, Brussels, Belgium. April 2004

Toronto Anesthesia Symposium. Toronto, ON. Management of the Patient with Severe COPD. April 2004


Annual New York Anesthesiology Review. Orlando, FL. Lung Isolation; Management of One-lung Anesthesia; Respiratory Physiology. March 2004


Visiting Professor. Department of Anesthesia, McMaster University, Hamilton, ON. January 2004

Visiting Professor. Department of Anesthesia, St. Luke’s Roosevelt Hospital, New York, NY. December 2003


**Tarshis J.**


The Scarborough Hospital, General Division, Department of Anaesthesia Rounds. Patient controlled epidural analgesia for labour: do we have our finger on the right button? April 2003.

Trillium Health Centre, Department of Anaesthesia Rounds. Patient controlled epidural analgesia for labour: do we have our finger on the right button? June 2003.


**Tumber P.**


**Wong D.**
Canadian Anesthesiologists’ Society 60th Annual meeting. Case Discussion: Perioperative risk reduction: is beta-blocker the answer? Quebec City, Quebec. June 21, 2004

Wong J.
April 4, 2004

Yogendran S.
April 4, 2004

Yee D.
Making a Mark Senior Residents’ Review Course. Complications of Anesthesia.

Saturday at the University. Pre-op Chest X-rays, EKGs – Do We Need Them? Toronto,

Anesthetic Practice 2003. Blood Transfusion in Trauma - What’s Old, What’s New?

Zhang H.
Sepsis Research in Canada: From bench to bedside. Tremblant, Quebec, Canada.
September 26 - 28, 2003

The 18th International Symposium on Critical Care Medicine. Molecular biology during
artificial ventilation: from lab to clinical experience. Trieste, Italy. November 16-20,
2003

The 18th International Symposium on Critical Care Medicine (Chair). Innate and adaptive
immunity in sepsis and lung injury. Trieste, Italy. November 16-20, 2003

The 18th International Symposium on Critical Care Medicine. Lung epithelium in host
defence and signalling. Trieste, Italy, November 16-20, 2003

The 18th International Symposium on Critical Care Medicine. How hot are heat shock
proteins in sepsis?Trieste, Italy. November 16-20, 2003

American Thoracic Society International Conference (Chair). ARDS/ventilator-induced
PEER REVIEWED GRANTS


Baker AJ, Tucker WS, Marotta T, Montanera W. National Institutes of Health (NIH) USD32,000/year. National Institute of Neurological Disorders and Stroke Multi-Centred Trial RO1 NS38484 (only Canadian site). Balloon Prophylaxis of Aneurysmal Vasospasm 2001-


Chan V. Canadian Anesthesiologists’ Society, Smiths Medical Canada Ltd. Canadian Research Award in Pain Research and/or Regional Anesthesia. $10,000. Is Ultrasound Imaging a Practical and More Accurate Method of Nerve Localization Than Nerve Stimulation During Brachial Plexus Block. 2003-2004.


Cox P. Canadian Institutes of Health Research (CIHR) $ 166,500 Optimization of Exogenous Lung Surfactant. 2003-2006.


Gagliese L. York University Merit Award. $3,000. Fellowship and Salary Awards. October 2003.


Gagliese L. Dean’s Fund. $9,785. 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. Anemia Institute for Research and Education. $30,000/year. Effect of erythropoietin on anemia induced cognitive dysfunction. 2003-2004.

Hayes JA. Dean’s Fund. Faculty of Medicine. $9,800. Effect of creatine monohydrate on respiratory muscle strength and endurance in Duchenne Muscular Dystrophy. 2004.


Kavanagh B. Canadian Institutes of Health Research (CIHR), Bayer/CBS Partnership Fund. New Investigator Award. $250,000. 2002-2007.


Kavanagh B. (Co-Investigator). NSERC. $111,800.00 Investigation of communication modalities for paediatric patients during transient voicelessness through augmented environments. 2003-2006.


Morgan PJ, Cleave-Hogg D. Dean’s Excellence Fund, Faculty of Medicine. $17,998.00. Applying theory to practice in a high-fidelity simulation centre. 2003-2004
Naik VN, Joo HS, Houston PL, Yee B, Savoldelli GL, Hamstra SJ. Dean’s Excellence Fund for Medical Education. $37,400/year. The Effect of Extraoperative Bench Model Fidelity on Training Fiberoptic Orotracheal Intubation Skills for Intraoperative Performance. 2004-2006.


Orser B. Canada Research Chair in Anesthesia. $100,000 per annum Tier 2: Anesthetic drugs from molecular mechanisms to patient safety. 2003-2008.


Zhang H. Canada Foundation of Innovation (CFI). Maintenance grant. $30,000/year

**Zhang H.** Canadian Institutes of Health (CIHR) $76,728/year Defensins and acute lung injury. 2001-2004.
NON PEER REVIEWED GRANTS

**Angle PJ.** Dorothy Borsook Research Award in Women’s Health. $2,500. Sunnybrook and Women’s College Health Sciences Centre. Feasibility Study Examining the Use of 19g epidural needles and 23g epidural catheters for labour analgesia. May 2004.

**Byrick RJ.** Baxter Corporation. $8,000. History of Department of Anaesthesia, University of Toronto Unrestricted Educational Grant 2003-2004

**Byrick RJ.** Organon Canada. $7,000. History of Department of Anaesthesia, University of Toronto Unrestricted Educational Grant. 2003-2004

**Chan V.** Pharmacia Corporation. $3,750 Canadian practice patterns for the treatment of post-operative pain. 2003-04

**Chan V.** Abbott Laboratories, Ltd. $60,000 A Double-blind, Parallel, Randomized, Phase IIIb, Comparative Study of the Efficacy and Safety of Levobupivacaine Infusion For Continuous Femoral Nerve Block For Pain Relief Following Total Knee Replacement Surgery. 2003-04

**Chan V.** Pharmacia Corporation. $30,600 Double-Blind Multicenter Study of the Safety and Efficacy of Parecoxib Followed by Valdecoxib Compared to Placebo in General Surgery Patients for Treatment of Post-Surgical Pain. 2003-04

**Chan V.** Pharmacia Corporation. $11,250 Multiple dose, randomized, double blind, multicenter study of the analgesic efficacy of the dosing regimen of Parecoxib sodium compared to placebo in patients for the treatment of post surgical pain from orthopedic surgery. 2003-04

**Djaiani G.** Baxter Healthcare Corporation. $20,000. Maintenance of anesthesia with desflurane and Propofol for OPCAB surgery. 2003-2004

**Djaiani G.** Biomarin. $160,000. A comparison of Neutralase to protamine in patients undergoing primary coronary artery bypass grafting surgery. 2003-2004

**Djaiani G.** Pharmacia Canada Inc. $72,000. A double blind multicenter study of safety and efficacy of Paracoxib followed by Valdecoxib compared to placebo treatment of post-surgical pain in patients undergoing coronary artery bypass grafting surgery. 2003-2004

**Djaiani G, McCluskey S.** Ortho Biotech. $133,000. Pharmacokinetics of recombinant human erythropoietin in patients undergoing cardiac surgery with cardiopulmonary bypass. 2002-2004


**Karkouti K.** Abbott Laboratories. $75,000. Principal Investigator. Safety and efficacy of Hextend versus albumin in major abdominal surgery. 2003-2004
**Karkouti K.** Novo-Nordisk. $120,000. Development and validation of a prediction rule for massive blood loss. 2004-2005

**Mazer CD.** Hemosol, Inc. $63,284. The effect of Different Preparations of HBOCs on Blood Pressure. 2003

**Mazer CD, Baker AJ, Ahmed N.** NovoNordisk. $10,310. A multi-centre, randomised, double-blind, parallel group, placebo controlled trial to evaluate the efficacy and safety of activated recombinant factor VII (rFVIIa/NovoSeven®) in the treatment of bleeding in severely injured trauma subjects. 2004

**Mazer CD, Leung P.** Pfizer Canada Inc. $12,853 Clinical Protocol for a Double-Blinded Multicentre study of the Safety and Efficacy of Parecoxib Followed by Valdecoxib Compared to Placebo for Treatment of Post-Surgical Pain in Patients Who Have Coronary Bypass Graft via Median Sternotomy. 2003

**Orser B.** Canadian Foundations for Innovation. $125,000 2003

**Orser B.** Ontario Innovation Trust. $125,000 2003