

CHAIR'S COMMENT

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 fiberoptic 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

Doherty, Dermot	IRELAND	McKenzie, Thomas	USA
Dolci, Mirko	SWITZERLAND	Peliowski, Arie	CANADA
Galton, Seth	UK	Rohah, Denise	IRELAND
Goetz, Sarah	AUSTRALIA	Shichor, Tal	ISRAEL
Hall, Stuart	USA	Taylor, Tal	NEW ZEALAND
McEwen, Judith	UK		

Mount Sinai Hospital

Balki, Mrinalini	INDIA	Ronayne, Michael	IRELAND
Dochev, Atanas	BULGARIA	Rudich, Zvia	ISRAEL
Domanski, Suzanne	AUSTRALIA	Saad, Samy	EGYPT
El-Brakey, Mary	EGYPT	Shehata, Ramez	EGYPT
Friedman, Zeev	ISRAEL	Siddiqui, Mughina	PAKISTAN
Iordanov, Kolio	BULGARIA	Stafford, Michael	IRELAND
Modi, Deepshikha	INDIA	Ta, Hien	CANADA
Mota, Jorge	BRAZIL		

St. Michael's Hospital

Alam, Syed	CANADA	McLonne, Mary	UK
Chung, David	AUSTRALIA	Predescu, Oana	ROMANIA
Leyden, John	AUSTRALIA	Rahman, Ahmed	CANADA
Lim, Teddy	CANADA	Yee, Bevan	NEW ZEALAND

Sunnybrook and Women's College Health Sciences Centre

Abraham, Alan	CANADA	Shendery, Alex	ISRAEL
Dumais, Robert	CANADA	Ward, Lucy	UK
Predescu, Oana	ROMANIA	Williams, Duncan	UK

UHN/Toronto General Hospital

Abdelnaem, Esam	EGYPT	Morete, Joselito	PHILIPPINES
Bozzetti, Giuseppe	ITALY	Mulhall, James	IRELAND
Fairweather, Nicole	AUSTRALIA	O'Farrell, Rachel	IRELAND
Hirasaki, Yuji	JAPAN	Poopalalingam, Ruban	SINGAPORE
Jose, Geraldine	PHILIPPINES	Shayan, Charles	USA
Jung, Hyun	KOREA	Symon, Johnson	INDIA
Katznelson, Rita	ISRAEL	Van Rensburg, Adriaan	SOUTH AFRICA
Lacroix, Melanie	CANADA	Wangel, Henrik	AUSTRALIA
Mark, Trisha	CANADA	Yu, Chunhua	CHINA
Minkovich, Leonid	ISRAEL		

UHN/ Toronto Western Hospital

Ashraf, Waseem	PAKISTAN	Kakizawa, Karen	BRAZIL
Awad, Imad	IRAQ	Kamming, Damon	SCOTLAND
Brauner, Ivan	CZECH REPUBLIC	Lukins, Michael	AUSTRALIA
Doran, Liam	IRELAND	Porter, Jennifer	IRELAND
Edward, Reginald	INDIA	Ronayne, Michael	IRELAND
Gallardo, Anecto	PHILIPPINES	Shendery, Alexander	ISREAL
Jeganathan, Miriam	SRI LANKA	Venkatraghavan, Lashmi	INDIA
Jose, Geraldine	PHILIPPINES	Ward, Barnaby	UK

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 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

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 Wijeyesundera
- 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 Anesthesiammeeting, 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. Abrahamson 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

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 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

POSTGRADUATE EDUCATION COMMITTEE

Program Director and PGEC Chair: Dr. D. J. McKnight

Program Coordinators:

Dr. P. Angle	Sunnybrook & Women's HSC – Women's College Site
Dr. R. Crago	Toronto Western Hospital
Dr. H. Fischer	Mount Sinai Hospital
Dr. H. Lee	Toronto East General Hospital
Dr. M. Levine	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

Curriculum and exams: Dr. P. Houston

Education Committee UHN: Dr. I. Devito

Resident Counsellors: Dr. R. Crago
Dr. B. Morningstar
Dr. D. Riegert

Residents: PG1 Dr. Hance Clarke
PG2 Dr. Rohit Kumar
PG3 Dr. Alayne Kealey
PG4 Dr. Susan French
PG5 Dr. Shawn Mawhinney

Program Assistant: Ms. K. Bailey

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 Ezufali, 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

U of T FELLOWSHIP RESEARCH SEMINAR SERIES

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

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

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 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 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.



Dr. Alan Laws

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). *Cytokino 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:

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

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://aneseme.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 Wijeyesundera	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"

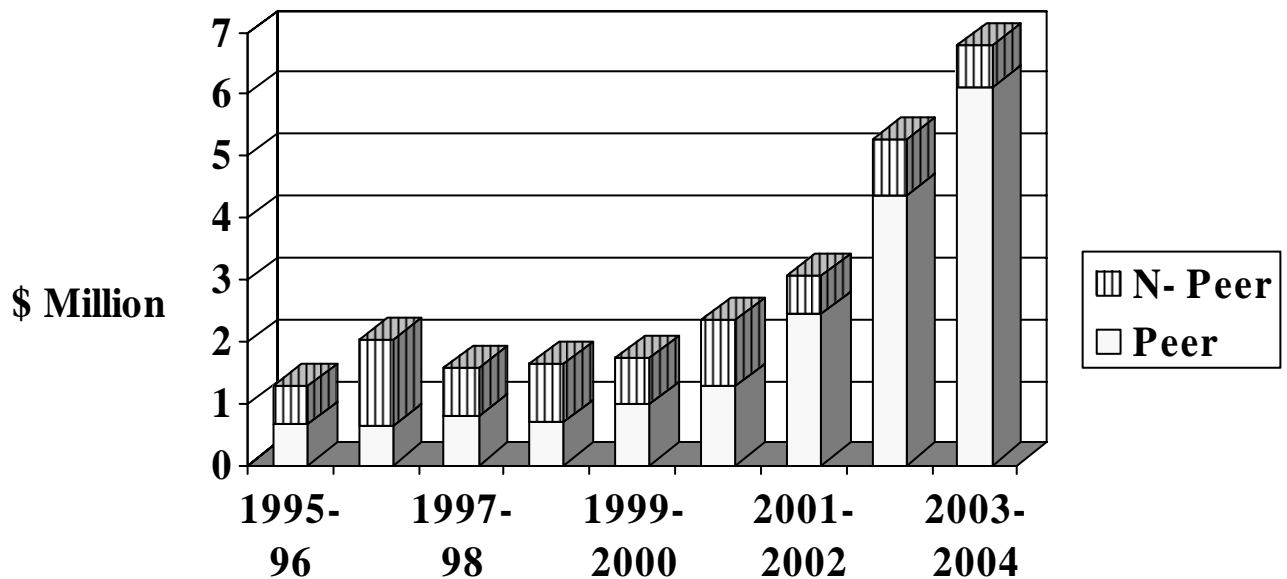
Dr. Pamela Morgan – RA Gordon Research Award for "Maximizing patient safety: high-fidelity simulation for obstetrical emergencies"

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

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

analysis be helpful? Abstract presented at Joint American / Canadian Pain Society Meeting. Vancouver, May 2004.

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

Stinson J, Brown SC. Treatment of Chronic Neuropathic Pain with Pamidronate: case report of two Adolescents. *Pain research & Management* 2003; 8(Supp B):56B.

Stinson J, Brown SC, Rudich Z, Jeavons M. Treatment of Chronic Intractable Neuropathic Pain with Dronabinol: Case Report of two Adolescents. *Pain Research & Management* 2003; 8(Supp B):56B.

Stinson J, McCartney CJL, Katz J. Impact and consequences of attending the Canadian Pain Society annual conference in Toronto during the SARS crisis: Survey of delegates. *J Pain* 2004; 5(Suppl. 1):A1133:141.

Symon J, Peterson M, McCluskey S, Fedorko L, Djaiani G, Poonwala H, Carroll J, Karkouti K, Karski J. Cytokine response to erythropoietin in cardiac surgery. *Can J Anesth (CAS)* 2004; 51:A86.

Tian G, Zhao X, Wang J, Baker AJ. Effect on post-traumatic spontaneous epileptiform activity in the rat hippocampus. *Journal of Neurotrauma* 2003; 20(10):429, 1136

Van Rensburg A, Karkouti K, McCluskey S, et al. rF-VIIa for refractory bleeding after CV surgery: a propensity analysis. *Can J Anesth.* 2004; 51:A81.

Varadarajan B, Jose G, Fedorko L, Carroll J, Karski J, Cheng D, Djaiani G. Perioperative use of antifibrinolytics reduces the risk of claustrophobia in patients undergoing MRI after cardiac surgery. *Can J Anaesth (CAS) Ottawa, Ontario* 2003.

Venkataraman ST, Hudson C, Flanagan J, Fisher JA. The development of an optimal hypercapnic stimulus for the non-invasive assessment of retinal blood flow. *American Academy of Optometry.* Dallas, December 2003.

Voglis S, Tullis ED, Silverman FS, Slutsky AS, Zhang H. Impaired phagocytic function of CF lung neutrophils. *American Journal of Respiratory and Critical Care Medicine* 2003; 167:A917

Ward B, Imarengiaye C, Chung F, Peirovy J. Is there delayed cognitive failure after ambulatory anesthesia. *Can J Anesth* 2004; 51:A70.

Wijeyesundera D, Beattie W, Djaiani G, Rao V, Borger M, Karkouti K, Cusimano RJ. Off-pump CABG surgery for reduction of perioperative mortality and morbidity: a meta-analysis. *Anesth Analg Suppl. (SCA) Hawaii, USA.* 2004.

Wilkins K, McGrath PJ, Finley GA, Katz J. Gender differences in phantom limb phenomena reported by child and adolescent amputees. *Pain Research and Management*. 2003; 8(Suppl. B):P-116, 59B.

You-Ten KE, Caraiscos VB, Elliott EM, Cheng VY, MacDonald JF, Orser BA. Sub-MAC concentrations of isoflurane target novel murine GABA_ARs. *Can J Anesth* 2004; 51:A4.

Zhang H, Lee J-H, Porro GA, Whitehead T, Voglis S, Liu M, Slutsky AS. LPS uptake mediates cell cross-talk through ICAM-1: a possible mechanism for failure of anti-LPS antibodies in sepsis trials. *Am J Resp Crit Care Med* 2003; 167:A429

INVITED LECTURES

Angle P.

Obstetric Anesthesia Symposium. Canadian Anesthesiologists' Society Meeting. Postdural Headache: Lessons from the Past, Implications for the Future. Quebec City, Quebec. June 6, 2004.

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

Society for Obstetric Anesthesia and Perinatology (SOAP). Evidence-based Approach: Poster Review Session. Sanibel Harbor, Florida. May 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.

Obstetrics & Gynecology Grand Rounds: Evidence Based Post Cesarean Analgesia, Women's College Campus, Sunnybrook and Women's College Health Sciences Centre. Toronto, Ontario. January 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.

Labour Analgesia. Midwife Seminar. Ryerson Polytechnic Institute. Toronto, Ontario. September 2003.

Baker A.

13th World Congress of Anaesthesiologists. Clinical Monitoring of head trauma. Paris. April 2004.

24th International Symposium on Intensive Care and Emergency Medicine. Cerebral injury: Resuscitation of white matter. Brussels. April 2004.

24th International Symposium on Intensive Care and Emergency Medicine. Cerebral edema: Use of hypertonic solutions in brain edema. Brussels. April 2004.

24th International Symposium on Intensive Care and Emergency Medicine. Plenary lecture: Development of an organ donation system. Brussels. April 2004.

Pittsburgh Neurotrauma Residents Forum. Brain injury identification, classification and pathology. Pennsylvania. February 2004.

Pittsburgh Neurotrauma Residents Forum. ICU/ medical management of spinal cord injured patients. Pennsylvania. February 2004.

Visiting Professor. Neurocritical care and neuroanesthesia update: severe head injury Beth Israel. Deaconess Medical Center, Harvard Medical School. Boston. December 2003.

Critical Care Medicine Symposium. Management of raised intracranial pressure. Toronto, ON, October 31, 2003.

Bevan D.R.

Visiting Professor, Department of Anesthesia, University of Manitoba. November 26-27, 2003

Ontario Hospital Association. Medical Directives and the Delegation of Controlled Acts. A Case Study in the Delegation of controlled Acts: Respiratory Therapists performing conscious Sedation. December 4, 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.

Grand Rounds, Grand River Hospital, Fluid management in paediatrics. Kitchener, ON. September, 2003.

Paediatric Grand Rounds, University of Alberta Hospital. Hyponatraemia. Ventilation/management of CDH. Edmonton, AB. September, 2003.

Paediatric Grand Rounds, Regina General Hospital. Diabetic ketoacidosis and cerebral oedema. Respiratory failure in children/strategies for severe hypoxemia. Regina, SK. September, 2003.

Toronto Critical Care Medicine Symposium. Fluid Management. Clinical Controversies (Chair). Toronto, ON. October/November, 2003.

Hospital for Sick Children ECMO Program – ECMO Specialists Training Program, HSC. Paediatric ECMO: Respiratory physiology criteria/HSC experience. Toronto. February, 2004.

Congenital Diaphragmatic Hernia – Clinical and Laboratory Research Directions. Clinical Session I: Prenatal management/newer therapies/clinical management of the heart and pulmonary pressures (moderator). Houston, TX. February, 2004.

20th Annual CNMC Symposium. The Pediatric and Adult Lung: Science Behind our Therapies (moderator). Pediatric ECMO Case Reviews (moderator). Keystone, CO. February, 2004.

24th Symposium on Intensive Care and Emergency Medicine. Acute Hypernatraemia. Changing the Paradigms in Critical Care. Permissive Hypoxaemia. Salt, Water and Cerebral Oedema. Brussels. March 2004.

Farewell Symposium for Professor Jurg Pfenninger. Clinical Approach to Disorders of Salt and Water Balance. Berne, Switzerland. April, 2004.

3rd Conference on Paediatric Renal Replacement Therapy. Non-Dialytic Therapy for Sepsis in the Paediatric Patient. Ventilation/Non-Dialytic Therapies in the Paediatric BMT Patient. Use of the Aquarius for CRRT (moderator for workshop). Unique Aspects of CRRT (moderator). Orlando, FL. June, 2004.

Brown S.C.

6th International Symposium on Pediatric Pain. Treatment of Chronic Neuropathic Pain with Pamidronate: case report of two Adolescents. Sydney, Australia. 2003

6th International Symposium on Pediatric Pain. Treatment of Chronic Intractable Neuropathic Pain with Dronabinol: case report of two Adolescents. Sydney, Australia. 2003.

Byrick R.

Wesley Bourne Memorial Lecturer. McGill University, Montreal General Hospital. Fat Embolism: systemic complications. Academic Anesthesiology: past and future. Montreal. September 10-12, 2003.

College of Anaesthetists, Royal College of Surgeons of Ireland, South of Ireland Association of Anaesthetists. Invited Lecture: Hemodynamic and Systemic Consequences of Peri-operative Fat Emboli; 2) Simulation-based Education in Canada. September 26-30, 2003.

Weber Lecture, University of Toronto. Our Academic Department: yesterday, today and tomorrow. May 6, 2004.

University of Western Ontario. Academic Day, Keynote address: Hemodynamic and Systemic Consequences of Fat Embolism. London, ON, June 4, 2004.

Ontario Hospital Association. Patient Safety: Anesthesia as a Model. June 14, 2004.

Carvalho J.

Mount Sinai Obstetric Anesthesia Conference 2003. A close look into techniques and solutions for prolonged infusions for labor analgesia: epidural vs CSE. Toronto, Ontario. October 2003.

50th Brazilian Congress of Anesthesiology. Labor Analgesia: Use of PCEA. Brasilia, Brazil. November 15-19, 2003.

50th Brazilian Congress of Anesthesiology. Placenta Acreta, Increta and Percreta: a New Therapeutic Approach. Brasilia, Brazil. November 15-19, 2003.

50th Brazilian Congress of Anesthesiology. Use of Vasopressors in Obstetrics: What to Use? Brasilia, Brazil. November 15-19, 2003.

50th Brazilian Congress of Anesthesiology. Labor Analgesia: When to Indicate, Advantages and Disadvantages, Brasilia, Brazil. November 15-19, 2003.

57 Post Graduate Assembly in Anesthesiology. Panelist, Perioperative Pain Management: Expanding Options, with the topic: Recent Advances in Peripartum Analgesia, New York, NY. December 13, 2003.

29th Annual Spring Meeting, American Society of Regional Anesthesia and Pain Medicine. Panelist, Pain and Obstetrics for the Occasional Anesthesiologist, with the topic: Causes of Intraoperative Nausea and Vomiting during Spinal Anesthesia for Cesarean Delivery, Orlando, FL. March 11-14, 2004.

29th Annual Spring Meeting, American Society of Regional Anesthesia and Pain Medicine. Instructor, Problem Based Learning Session, OB Anesthesia and Dural Puncture, Orlando, FL, March 11-14, 2004.

UHN/MSH Combined Rounds, A New Look Into the Prophylaxis and Treatment of Hypotension during Cesarean Section. Toronto. April 2, 2004.

38th Jornada de Anestesiologia do Sudeste Brasileiro. Post Partum Hemorrhage: Be Prepared, Sao Paulo, Brazil. June 25-27, 2004.

38th Jornada de Anestesiologia do Sudeste Brasileiro. International Lecture, Nausea and Vomiting during Regional Anesthesia for Cesarean Section, Sao Paulo, Brazil. June 25-27, 2004.

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

The Past, Presence, and future of Regional Anesthesia in Perioperative Medicine: An Outlook, Ultrasound and Regional Anaesthesia International Symposium. Speaker. Schwetzingen, Germany. April 4, 2004

New Safety Aspects in Regional Anaesthesia, Ultrasound and Regional Anaesthesia International Symposium. Panelist. Schwetzingen, Germany. April 4, 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. Workshop Moderator and Speaker: Mastering the Lumbosacral Plexus and Lower Extremity Peripheral Blockade: A Comprehensive Approach to Anatomy & Clinical Applications, Orlando, Florida. March 13, 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

29th Annual Spring Meeting, American Society of Regional Anesthesia & Pain Medicine. Speaker, Using Ultrasound for Nerve Localization, Orlando, Florida. March 12, 2004

29th Annual Spring Meeting, American Society of Regional Anesthesia & Pain Medicine. Leader-Master Class, Making Peripheral Nerve Blocks work in a Busy Practice, Orlando, Florida. March 11, 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

The Third Princess Margaret Hospital Conference: New Developments in Cancer Management. Intraspinal Analgesia: What Every Oncologist Should Know, Toronto, Ontario. September 2003

Regional Anesthesia & Pain Medicine 2003 Conference. Master Class Leader. Niagara-on-the-Lake, Ontario. September 22, 2003

Regional Anesthesia & Pain Medicine 2003 Conference. Workshop Leader, Intersternocleidomastoid Block. Niagara-on-the-Lake, Ontario. September 21, 2003

Regional Anesthesia & Pain Medicine 2003 Conference. Ultrasound Imaging for Peripheral Nerve Blocks. Niagara-on-the-Lake, Ontario. September 20, 2003

Chapman M.

Rocky Mountain Critical Care Conference. Ventilatory Management: Hyperventilate or Not? Lake Louise, Alberta. March 2004.

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

Canadian Anesthetists' Society 60th Annual meeting. Satellite Symposium – Management of Postoperative Nausea and Vomiting: State of the Art, Postoperative Nausea and Vomiting: The Big Little Problem. Quebec City, QC. June 19, 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

13th World Congress of Anaesthesiologists. Anaesthesia Management of Potential SARS Patient. Paris, France. April 22, 2004

Toronto Anesthesia Symposium. Selection Criteria for Ambulatory Surgery: Where do we draw the line? Toronto, Ontario. April 3, 2004

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

57th Postgraduate Assembly, The New York State of Anesthesiologists. Panelist: Challenges and Controversies in Ambulatory Anesthesia. New York, NY, Criteria for Ambulatory Surgery Patient Selection: What is the Evidence? December 15, 2003

Everett Chalmers Regional Hospital. Pain and Symptom Management in the Ambulatory Setting. Frederick, New Brunswick. December 2, 2003

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

American Society of Anesthesiologists' Annual Meeting. Postanesthesia Guidelines. San Francisco, CA. October 14, 2003

Regional Anesthesia & Pain Medicine 2003 Conference. Workshop Leader, Managing Complex Pain in Outpatients. Niagara-on-the-Lake, Ontario. September 21, 2003

Regional Anesthesia & Pain Medicine 2003 Conference. Panelist, Controversies in Regional Anesthesia. Niagara-on-the-Lake, Ontario. September 21, 2003

Regional Anesthesia & Pain Medicine 2003 Conference. Speaker, Outpatient Pain Management – A Challenge for Anesthesiologists. Niagara-on-the-Lake, Ontario. September 20, 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

Anesthetic Practice 2003, Toronto, ON. Extubation of the Difficult Airway, Airway Workshop. November 30, 2003

Anesthetic Practice 2003, Toronto, ON. Airway Workshop. November 30, 2003

Ontario Respiratory Care Society Annual Meeting. Better Breathing Conference. Toronto, ON. Difficult Airway Management Workshop. January 31, 2004

Texas Anesthesia Conference for Obstetrics 2004. Cricoid Pressure - Pro-Con Debate. Houston, TX. February 27-28, 2004

Texas Anesthesia Conference for Obstetrics 2004. Difficult Airway Workshop: GlideScope® workshop. Houston, TX. February 27-28, 2004

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

Association des anesthésiologistes du Québec, Annual Scientific Meeting. Post SARS - What's changed? April 4, 2004. Montreal, PQ. March 27, 2004

Toronto Anesthesia Symposium, Toronto, ON. Airway Workshop. June 19 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

OAC Spring Meeting. Brain Death Forum. Niagara-on-the-Lake, ON. April 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.

Mount Sinai Obstetric Anesthesia Conference 2003. Maternal mortality, review of the 97-99 UK Triennial Report: lessons to be learned. Toronto, Ontario. October 2003.

Anesthetic Practice 2003. Resuscitation in Obstetrics. University of Toronto. Toronto, Ontario. November 2003.

North York Combined Obstetrical and Anaesthesia Grand Rounds. Maternal Mortality. Toronto, Ontario. May 2004.

Djaiani G.

Perioperative TEE Course, TGH, Toronto, Canada. Presentation: Stroke and Cardiac Surgery: Implications of atheromatous aorta and PFO. November 2004

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

Perioperative TEE Course, TGH, Toronto, Canada. Presentation: HOCM: Perioperative management. November 2003

El-Beheiry H.

Toronto Anesthesia Symposium. Workshop, Airway Gadgets Toronto, Ontario, April 4, 2004

Fisher J.

Beyond Conventional Clinical Practice. Antarctica. New technology for treatment of CO poisoning in the field: Clinical implications. March 2004

Beyond Conventional Clinical Practice. Antarctica. New approach for Non-Invasive cardiac output: recent experience. March 2004

Beyond Conventional Clinical Practice. Antarctica. Non-Invasive cardiac output: Review and assessment of current technology. March 2004

UHN Cardiovascular Surgery Rounds. University of Toronto, Toronto, ON. Non invasive cardiac output: what's old, what's new. November 2003

Hot Topics session, ATACCC (Advanced technology Application in Combat Casualty Care). St. Petersburg FLA. Strategies for conservation of oxygen in treating the critically injured: theoretical and real limits. August 2003

Gagliese L.

Department of Anaesthesia Pain Research Day, University of Toronto. Toronto, Ontario. Age-related patterns in cancer pain. March 2004

York University Health Research Forum, Toronto, Ontario. Pain and Aging: Overview of a research program. November, 2003

Urology Research Rounds, University Health Network, Toronto, Ontario. Effects of NMDA-receptor antagonism on hyperalgesia, opioid use and pain after radical prostatectomy in young and elderly patients. August, 2003

Gardner-Nix J.

3 day Saskatchewan lecture tour. Management of Noncancer Pain. June 2003.

3 day Alberta/British Columbia lecture tour. Management of Noncancer Pain, June 2003.

Rheumatology Rounds, Sunnybrook & Women's College Health Sciences Centre. Use of Opioids in Managing Non Cancer Pain. July 2003.

Markham-Stouffville Grand Rounds. Management of Non Cancer Pain. September 2003.

Nursing Rounds, St. Michael's Hospital. Management of Non Cancer Pain. October 2003.

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.

Anaesthesia Rounds, St. Michael's Hospital. What's New in Chronic Pain at St. Michael's: Medic-tation therapy. January 2004.

Speaking tour: Update on Chronic Pain Management: What the physician Needs to Know. To physicians and other health care professionals in Windsor, Chatham, and London, Ontario. March 2004.

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

Psychiatry Department Rounds. Update on Chronic Pain at St. Michael's. March 2004.

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

Pain Management, Update on Use of Opioids. Critical Care Rounds, Sunnybrook & Women's College Health Sciences Centre. June 2004.

Workshop at the 9th Annual Conference of the Canadian Association of Wound care. Pain in Wound Care: the Fifth vital sign. Toronto, Ontario. November 2003.

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.

Workshop at the 9th Annual Conference of the Canadian Association of Wound Care. Pain in Wound Care: the Fifth vital sign. Toronto, Canada. November 2003.

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.

Mount Sinai Obstetric Anesthesia Conference 2003. Maternal heart disease: You can make it simple and safe, if you have a good plan. Toronto, Ontario. October 2003.

Combined Anesthesia and Obstetrics Grand Rounds. Valvular Heart Disease and Pregnancy. Women's College Hospital. Toronto, Ontario. October 2003.

Anesthetic Practice 2003. Is there a difference between the obstetric and non-obstetric airway? University of Toronto. Toronto, Ontario. November 2003.

Canadian Anesthesiologists' Society 60th Annual Meeting. Case Discussion: Pregnancy and Uncorrected Tetralogy of Fallot. Quebec. June 2004.

Halpern S.

Share Tzedec Hospital. The Effect of Epidural Analgesia on the Outcome of Labour. Jerusalem Israel. June 2004.

Hadassah University Hospital and the Hebrew University School of Public Health. Epidural analgesia and caesarean section: Is there a link? Introduction to Clinical Biostatistics and Epidemiology. Jerusalem Israel. May 31, 2004.

Hadassah University Hospital and the Hebrew University School of Public Health. A practical guide to meta-analysis. Introduction to Clinical Biostatistics and Epidemiology. Jerusalem Israel. May 3, 2004.

Hadassah University Hospital. Does epidural anaesthesia increase the risk of caesarean section? A critical appraisal of the medical literature. Anaesthesia Residents rounds. March 29 2004.

Hadassah University Hospital and the Hebrew University School of Public Health. Consolidated Standards of Reporting of Clinical Trials (CONSORT). Introduction to Clinical Biostatistics and Epidemiology. Jerusalem Israel. February 16, 2004.

Tel Hashomer Hospital. Does epidural analgesia cause back pain? Israel Obstetrical Anesthesia Society. Tel Aviv. Feb 13, 2004.

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

City-wide Obstetrical Anesthesia rounds .Hadassah University Hospital. Post-partum hemorrhage – from the epidural site! Ein Karem, Israel. Dec 2, 2003

Hadassah University Hospital. How to read the medical literature. Ein Karem Israel. November 4, 2003.

1st International Congress of Evidence-based medicine. Epidural analgesia and the progress of labour. Hopital Universitaires de Geneve. Geneva, Switzerland. August 22, 2003.

Visiting Associate Professorship in the Department of Anesthesiology and Critical Care Medicine. Joels Hebrew University. Jerusalem Israel. October 1, 2003 to March 31, 2004.

Hare G.

Dalhousie University Research Day. Perioperative blood conservation: How basic science and clinical research today can improve patient care tomorrow. Dalhousie University. Halifax, NS, May 5, 2004.

Zodvorny Memorial Lecture: Physiological and molecular assessment of cerebral hypoxia. Department of Anesthesia, University of Saskatchewan. Saskatoon, SK, March 18, 2004.

St. Georges University School of Medicine. Perioperative Blood Conservation Strategies. Grenada, WI. January 14, 2004.

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

Towards Better Practices Development Workshop, Old Mill, Toronto. Web-assisted tobacco cessation interventions: Quid tum? Web-assisted tobacco Interventions: January 17-18, 2004

Merck Frosst presentation, Toronto. Evidence-based decision-making: a new language of partnership? January 29, 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

Calgary Annual Pain Symposium. University of Calgary. Pain in the age of eHealth. June 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, Balears, 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 Tecnológico de Andalucía, Malaga, Spain. eHealth: new business opportunities in the Internet age. July 16, 2004

Joo H.

Anaesthetic Practice 2003. Difficult Airway Simulation. Toronto, Canada. November 2003.

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

McGill Anesthesia Update - Blood Transfusion – current guidelines: how low can one go? Blood conservation techniques. 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

The Canadian Anesthesia Society Annual Meeting. PNBC Symposium. Toward the cost-effective use of blood conservation. Ottawa, Canada. 2003

Karski J.

2003 Perioperative TEE Clinical Day. Toronto General Hospital. TEE in End Stage Dilated Cardiomyopathy. November 8, 2003

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

TGH CV Fellows Rounds. Toronto General Hospital. Taking care of the patient with heart valve disease undergoing non-cardiac surgery. 2004

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

Visiting Professor. Medical Information in 21st Century: Finding, storing, using it. Anaesthesia Department University of Calgary, Alberta. February 12 2004.

Visiting Professor. Residents Retreat. Taking care of the patient with heart valve disease undergoing non-cardiac surgery. Anaesthesia Department University of Calgary, Alberta. February 14, 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

Adult-Child Clinical Research Rounds, Department of Psychology, York University. Biomedical and psychosocial predictors of postoperative pain. November 7, 2003.

New York State Society of Anesthesiologists 57th Postgraduate Assembly, New York, NY. Regional anesthesia versus general anesthesia for ambulatory hand surgery. December 13, 2003

Kavanagh B.

Meakins-Christie Research Group, McGill University. CO₂ and Lung Injury. Montreal, Canada. September 2003

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

8th Annual Toronto Critical Care Medicine Symposium. Session Chair. Error in ICU, Clinical Updates. Toronto, Canada. October 2003

Anaesthesia Grand Rounds, University of Ottawa. CO₂ and Lung Injury. Ottawa, Canada. November 2003

Intensive Care Society of Ireland Medicine. Ventilation Target in ARDS Galway, Ireland. November 2003

Intensive Care Society of Ireland Medicine. Clinical Trials in ARDS the Correct Tidal Volume (Debate – pro). Galway, Ireland. November 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. Recruitment May Prevent ARDS. Brussels, Belgium. March 2004

24th International Symposium on Intensive Care Medicine. Targeting Normal Values may Hurt. Brussels, Belgium. March 2004

24th International Symposium on Intensive Care Medicine. Epinephrine may be Toxic. Brussels, Belgium. March 2004

24th International Symposium on Intensive Care Medicine. The Pros and Cons of Hypercapnia. Brussels, Belgium. March 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

American Thoracic Society. Ventilator-Induced Lung Injury. CO₂ and Mechanical Ventilation: Balancing Risks vs. Benefits Florida, USA. May 2004

3rd International Symposium Developmental Biology of the Lung. Ventilator-Associated Lung in Adults vs. Children – Different Rules? Quebec, Canada. 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 CO₂ and Lung Injury Cincinnati, USA. June 2004

Kay J.

Non-narcotic Analgesics. Third Symposium on Joint Preserving and Minimally Invasive Surgery of the Hip. Montreal, Quebec. June 6, 2004

Laflamme C.

Fourth Annual Mont Tremblant Anesthesia Meeting. TEE – What Can it Show You and Where is it Useful? Presented with colleague Dr. Sophia Wong. Mont Tremblant Conference. St. Sauveur, Quebec. February 2004.

Abbott Annual Meeting. Cardio Protection and Neuro Protection with Volatile Agents: Myth or Reality. Palm Springs, California. January 2004.

Lee A.

Ontario Perianesthesia Nurses Association Conference. Perioperative Pain Management following Complex Surgery in the PACU. Toronto, Ontario. October 2003

Loke J.C.P.

Grand Rounds. Strathroy/MiddleSex General Hospital. Malignant Hyperthermia. November 29, 2003

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

Manninen P.

Speak, Brain Day TWH, Anesthesia for cerebral aneurysm surgery. Toronto. November 23, 2003

13th General Scientific Meeting, Anesthesia in the MRI. Chapter of Anaesthesiologists & Singapore Society of Anaesthesiologists. Singapore. August 17, 2003

13th General Scientific Meeting, Update in Neuroanesthesia. Chapter of Anaesthesiologists & Singapore Society of Anaesthesiologists. Singapore. August 16, 2003

Macarthur A.J.

Mount Sinai Obstetric Anesthesia Conference 2003. Post partum hemorrhage: make sure you have a protocol, make sure you thought of a pre-emptive management. Toronto, Ontario. October 2003.

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.

Postpartum hemorrhage – invited speaker to the Department of Anesthesia & Obstetrics, Soldier's Memorial Hospital. Orillia. April 2004.

Department of Anesthesia, Trillium Health Centre. Postpartum hemorrhage. March 2004.

Annual Meeting of the Society of Obstetric Anesthesiologists & Perinatologists. Pro/Con: Ephedrine, rather than phenylephrine, is the vasopressor of choice to prevent and manage spinal-induced hypotension. (Pro – Alison Macarthur; Con – Edward Riley) at the 2004 Fort Myers, Fl. May 2004.

Mazer D.

Debate. Volatile Anesthetics Confer Cytoprotection: Yes or No? Toronto, ON, July 21-22, 2003.

Society for the Advancement of Blood Management Symposium. Anemia in Critical Care. Society for Advancement of Blood Management. San Diego. Sept 13, 2003.

Toronto Critical Care Symposium. Blood Substitutes. Oct 30 - Nov 1, 2003.

9th Annual SCA Update on Cardiopulmonary Bypass. Case Challenges from Anesthesiology. Snowmass, Colorado. March 14-19, 2004.

9th Annual SCA Update on Cardiopulmonary Bypass. Historical Review of Blood Banking for Surgery. Snowmass, Colorado. March 14-19, 2004.

9th Annual SCA Update on Cardiopulmonary Bypass. Oxygen Therapeutics. Snowmass, Colorado. March 14-19, 2004.

Society of Cardiovascular Anesthesiologists 26th Annual Meeting. Does Factor VII Have a Role in the Management of Hemorrhage after CPB? Hawaii. April 24-28, 2004.

Society of Cardiovascular Anesthesiologists 26th Annual Meeting. Use of Combined Antifibrinolytic Therapy. Is it Recommended? Hawaii. April 24-28, 2004.

Society of Cardiovascular Anesthesiologists 26th Annual Meeting. Does Factor VII Have a Role in the Management of Hemorrhage after CPB? Hawaii. April 24-28, 2004.

Society of Cardiovascular Anesthesiologists 26th Annual Meeting. Use of Combined Antifibrinolytic Therapy. Is it Recommended? Hawaii. April 24-28, 2004.

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

29th Annual Spring Meeting, American Society of Regional Anesthesia & Pain Medicine. Workshop Leader, Variations of the Supraclavicular Block. Orlando, Florida. March 11, 2004

Grand Rounds. Hospital for Special Surgery. Can we prevent postoperative pain? New York, New York. December 4, 2003

Canadian Rheumatology Association. How to manage chronic pain. Orlando, Florida. October 21, 2003

Regional Anesthesia & Pain Medicine 2003 Conference. Workshop Leader, Sciatic Blocks. Niagara-on-the-Lake, Ontario. September 21, 2003

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

McCluskey S.A.

The Anesthesiologists Perspective. Ontario Transfusion, Toronto. Perioperative Blood Conservation. August 10, 2004

Blood Utilization Management – Ontario Leaders Forum. The Role of Erythropoietin in Perioperative Blood Conservation. December 2, 2003

UHN/MSH Combined Rounds, Toronto General Hospital. Perioperative Blood Conservation: Past, Present, and Future. October 3, 2003

Calea sponsored educational evening, Toronto. International Review of Starch Solutions: North American Starch Solutions. October 2, 2003

North Bay General Hospital. Transfusion Triggers: Why Blood Conservation and Alternatives to Blood Transfusion. September 26, 2003

McGrath P.A.

Pediatric Anaesthesia Conference. Psychological Interventions for Pain Control in Children. Toronto, Ontario, November 14, 2003.

McGuire G.

Toronto Anesthesia Symposium. Workshop, Airway Gadgets. Toronto, Ontario. April 4, 2004

Middleton W.

Toronto Anesthesia Symposium. Workshop, Fiberoptic Intubation. Toronto, Ontario. April 4, 2004

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

Anaesthetic Practice 2004. Resuscitation after Brain Death Management of Organ Donors. November 30, 2003

Medical Management to Optimize Donor Organ Potential, a forum sponsored by the Canadian Council on Donation and Transplantation and Health Canada. Mont Tremblant Quebec. Development of Canadian guidelines for donor management. February 23-25, 2004

Morgan P.J.

Canadian Anesthesiologists' Society 60th Annual Meeting. Pro-Con Debate. Failed epidural for Cesarean Section: To Spinal or Not to Spinal? Quebec City, Quebec. June 2004.

Canadian Anesthesiologists' 60th Annual Meeting. Simulation-based Education: Reaching the Unreachable? Patient Safety Symposium. Quebec City, Quebec. June 2004.

Canadian Anesthesiologists' 60th Society Annual Meeting. Undergraduate ACUDA meeting. Simulation-based Education: The University of Toronto Experience. Quebec City, Quebec. June 2004.

Canadian Anesthesiologists' Society 60th Annual Meeting. Simulation Scenarios: Development, Implementation and Debriefing. Quebec City, Quebec. June 2004.

Operating and Postanesthetic Recovery Room Nurses. Plenary Session. Human Error in Medicine: Where are we going wrong? London, Ontario. April 2004.

Postgraduate Block Course. Kantonspital, University of Basel. Experimental and Visual Learning: Teaching and Training in Clinical Medicine. Basel, Switzerland. March 8, 2004

Kantonspital, University of Basel, Basel, Switzerland. Selection and Evaluation: Teaching and Training in Clinical Medicine. March 9, 2004.

Vancouver General Hospital. University of British Columbia. High-fidelity simulation in undergraduate medical education. February 2004.

British Columbia Children's Hospital. University of British Columbia. Prevention of Human Error in Medicine: Does Simulation Play a Role? February 2004.

CME lecture to Windsor anesthesiologists. Prevention of Human Error in Medicine: Does Simulation Play a Role? Windsor, Ontario. December 2003.

Anesthetic Practice. Prevention of Human Error in Medicine: Does Simulation Play a Role? Toronto, Ontario. November 2003.

Oakville Trafalgar Hospital. What's new in Obstetric Anesthesia? Oakville, Ontario. September 2003.

Visiting Professor, Kantonspital, University of Basel, Basel, Switzerland. March 8-9, 2004.

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

Society of Cardiovascular Anesthesiologists Annual Meeting. TEE Basic Workshop. Artefacts and Anatomical Pitfalls in TEE. Honolulu, Hawaii. April 2004

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

Naik V.N.

Anaesthetic Practice 2003. Difficult Airway Simulation. Toronto, Canada. November 2003.

Orser B.

Canadian Anesthesiologists' 60th Society. Molecular Revolution and Anesthesia. Quebec City, Quebec. June 2004.

Toronto Anesthesia Symposium. Dr. Alexander Relle Memorial Lecture. Learning from Skeletons in our Closets: Medication Safety. Toronto, Ontario, April 2004.

Winterlude Anesthesia Conference. Challenges in Patient Safety. Ottawa, Ontario. February 2004.

Commission on SARS. Group presentation to The Honourable Archie Campbell. Toronto, Ontario. January 2004.

Department of Anesthesia, Toronto Hospital. Mechanisms of Anesthetics. Toronto, Ontario. June 2004.

Department of Anesthesia Research Group. Cornell Medical School. Tonic GABA_A receptors as anesthetic targets, New York, New York. December 2004.

Department of Physiology, University of Toronto. Sites and Mechanisms of Anesthetics. Toronto, Ontario. November 2003.

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

Regional Anesthesia and Pain Management Round, University Health Network. Botox and Pain Management. April 2004

St. Joseph's Health Centre's Pain Management Conference. The Art and Science of Pain Management. Failed Back Surgery Syndrome. Toronto, Ontario. 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

Perceptorship for chronic pain physicians. Wasser Pain Management Center, Mount Sinai Hospital, Prevalence of chronic pain, Interventional procedure for pain. October 2003

Perceptorship for chronic pain physicians. Wasser Pain Management Center, Mount Sinai Hospital Prevalence of chronic pain, Interventional procedure for pain. November 2003

Regional Anesthesia & Pain Medicine 2003 Conference. Workshop Leader, IVRA. Niagara-on-the-Lake, Ontario. September 21, 2003

Regional Anesthesia & Pain Medicine 2003 Conference. Workshop Leader, Spinal Cord Stimulator. Niagara-on-the-Lake, Ontario, September 21, 2003

Regional Anesthesia & Pain Medicine 2003 Conference. Workshop Leader, Intrathecal Implantable Pump. Niagara-on-the-Lake, Ontario. September 21, 2003

Riegert D.

Regional Anaesthesia and Pain Management 2003 Conference. Meeting Coordinator. Niagara-on-the-Lake, Ontario. September 2003

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

Visiting Professor. Children's Hospital of Eastern Ontario. University of Ottawa, Rachel Waugh Memorial Lecturer January 21, 2004

Pediatric Anesthesia Satellite Meeting. World Congress of Anesthesia. Moderator. Bordeaux, France. April 23-24, 2004

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

Dannemiller Review Course in Anesthesiology. Preoperative Assessment, Lung isolation, One-lung Ventilation, Mediastinal Masses, Post-thoracotomy Analgesia. Chicago, IL, May 2004; San Antonio, 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 Meeting International Anesthesia Research Society. Tampa, FL. Thoracic Anesthesia; Mediastinal Mass. March 2004

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

Annual Meeting of The Arizona Society of Anesthesiologists. Phoenix. Preoperative Assessment, Management of One-lung ventilation, Post-thoracotomy Analgesia. February 2004

Making-a-Mark Anesthesia Resident Review Course. Thoracic Anesthesia. Mississauga ON. February 2004

Annual Anesthesia Review and Update on Cardiopulmonary Bypass, Acapulco, Mexico. Preoperative Assessment for Thoracic Surgery. January 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

Annual Meeting American Society of Anesthesiologists. Cardiothoracic Case Management Panel, Pneumonectomy (PBLD). San Francisco, CA. October 2003

Update in Cardiovascular Surgery, Anaesthesia and Intensive Care. Oostende. Management of One-lung Ventilation. Belgium. September 2003

Challenges for Clinicians in the New Millennium. One-lung Ventilation, Post-thoracotomy Analgesia, Anesthesia for lung transplantation. Barcelona, Spain. July 2003

Tarshis J.

Pro/Con Debate: Volatile Anesthetics Confer Neuroprotection. Oro Restaurant. September 2003.

2003 Obstetric Anesthesia Conference. Mount Sinai Hospital. Moderator. October 2003.

Anaesthetic Practice 2003. Small group sessions on anaesthesia simulation. GP Anaesthesia Forum. November 2003.

Anaesthetic Practice 2003. Small group sessions. Introduction to simulation and debriefing. November 2003.

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.

4th Annual Tremblant Anesthesia Conference. Meeting Co-coordinator. St. Sauveur, Quebec. February 2003.

Canadian Anesthesiologists' Society 60th Annual Meeting. Chair, Canadian Simulation Interest Group. Quebec City, Quebec. June 2003.

Tumber P.

Toronto Anesthesia Symposium. Workshop, Acute Pain Management Vignettes, Toronto, Ontario. April 4, 2004

UHN Department of Emergency Medicine. Acute Pain Management and the ER. Toronto. March 24, 2004

Regional Anesthesia & Pain Medicine 2003 Conference. Workshop Leader, Lumbar Plexus Blocks. Niagara-on-the-Lake, Ontario. September 21, 2003

Multidisciplinary Rounds, Wasser Pain Clinic, Mt. Sinai Hospital. CRPS-I: An Anesthesiologist's Perspective. Toronto. July 30, 2003

Wong D.

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

Toronto Anesthesia Symposium. Patient with Pacemaker/AICD. Toronto, Ontario. April 3, 2004

Wong J.

Toronto Anesthesia Symposium. Workshop, Fiberoptic Intubation. Toronto, Ontario.
April 4, 2004

Yogendran S.

Toronto Anesthesia Symposium. Workshop, Fiberoptic Intubation. Toronto, Ontario.
April 4, 2004

Yee D.

Making a Mark Senior Residents' Review Course. Complications of Anesthesia.
Mississauga, Ontario. February 2004.

Saturday at the University. Pre-op Chest X-rays, EKGs – Do We Need Them? Toronto,
Ontario. February 2004.

Anesthetic Practice 2003. Blood Transfusion in Trauma - What's Old, What's New?
Toronto, Ontario. November 2003.

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
lung injury. Orlando, Florida. May 18-23, 2004

PEER REVIEWED GRANTS

Asmundson GJG, Taylor S, Stein MB, Katz J, Cox BJ, Jang KL. Canadian Institutes of Health Research - INMHA - New Emerging Team Grant (CIHR) \$1,459,930. 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. 2003-2008.

Baker AJ, Beed S, Boiteau P, Fenwick J, Shepherd J. Clarica Life Insurance Company. \$150,000 over 4 sites (\$50,000 at St. Michael's Hospital) An evaluation of the potential for organ and tissue donation at four Canadian tertiary health care centres. 2002-2004.

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-

Bohn D. Physicians' Services Incorporated Foundation (PSI). \$286,870 Hospital for Sick Children Foundation, Ferring. A Study of the Efficacy of Vasopressin in Pediatric Vasodilatory Shock. 2003-2005.

Bohn D. Fujisawa Canada. \$400,000 Nephrotoxicity: Conventional versus Liposomal Amphotericin B in Children. 2003-2005.

Bohn D, Hutchison J. Canadian Institutes of Health Research, Ontario Neurotrauma Foundation, CHEO Research Institute, Hospital for Sick Children Foundation, Physicians' Services Incorporated Foundation, the Fonds de la recherche en sante du Quebec. \$1,619,829 Hypothermia Pediatric Head Injury Trial (HyP-HIT) A randomized controlled trial of moderate hypothermia in children with severe traumatic brain injury. 1998-2004.

Bohn D, Hutchison J. Heart & Stroke Foundation of Ontario. \$124,626 In-vivo assessment of myocardial force-frequency relationships in children. 2002-2004.

Bombardier C, Jadad AR, Willkins A, Eysenbach G, Milgram P. Canadian Institutes of Health Research (CIHR) \$200,000. A demonstration project of electronic patient generated data for point of care reporting in the management of rheumatoid arthritis. 2003-2005.

Byrick RJ. Associated Medical Services (AMS) Hannah Development Grant. \$7,000. A Commemorative history of Department of Anaesthesia, University of Toronto. 2003-2004.

Chan C, Jadad AR, Millgram P, Owens R, Easty AC, Rossos PG, Granton J. Bell University Laboratories. \$405,000. Tele-homecare Technology for the Chronically-III Patient: Tele-monitoring, Usability, and Patient Communication. 2003-2004.

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.

Chan V, McCartney C, Katz J, Perlas A, Simons M. Physicians' Services Incorporated Foundation (PSI) \$75,000. Improving accuracy and safety of nerve localization – A comparison of ultrasound imaging versus nerve stimulation for nerve localization for brachial plexus block. 2003-2004.

Chan V, McCartney C, Simons M, Rawson, R, Katz J. Canadian Anesthesiologists' Society. \$10,000. Is ultrasound imaging a practical and more accurate method of nerve localization than nerve stimulation during brachial plexus block? 2003-2004.

Chan V, McCartney C, Perlas A, Katz J, Rawson R. Physicians' Services Incorporated Foundation (PSI) \$75,000. Paresthesia and nerve stimulation responses during nerve localization – a reliability study using ultrasound imaging. 2003-2004.

Chastain D. National Institutes of Health (NIH) \$290,000 (US) Pediatric Conscious Sedation Device. 2003-2004.

Chastain D. Hart G. McGrath P.A. Carr D The National Institutes of Health (NIH) \$750,000 US Pediatric Conscious Sedation Device 2003-2004.

Choiniere M, Collet JP, Peng P, Lefort S, Clark A, Lynch M, Boulanger A, Dion D, Shir Y, Ware M, Guertin MC, Gordon A, Guerriere D, Moulin D, Intrater H, Banner R, Taenzer P, Barton P, Rashiq S, Ong-Lam M. Canadian Institutes of Health Research (CIHR) \$212,500. Improving Chronic Pain Management in Canada – The STOP-PAIN Project. Phase I: Assessment of Chronic Pain Burden and Management (First 6 months) 2004.

Chung F. Physicians' Services Incorporated Foundation (PSI) \$40,000. Elimination of preoperative testing in low-risk day surgery. 2004.

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

Djaiani G. Deans Fund. \$10,000. The impact of specific gene polymorphism on neurocognitive decline after cardiac surgery. 2002-2007.

Djaiani G. Heart and Stroke Foundation of Ontario. \$266,792. The impact of continuous flow cell-saver on neurocognitive decline after cardiac surgery. 2002-2004.

El-Beheiry H, Carlen PL, Pennefather P. Alzheimer's Association (U.S.A.) \$76,000 US (\$100,624 CAN) per year. Presynaptic mitochondria: A therapeutic target for Alzheimer's disease. 2003-2004.

Errett L, Bonneau D, Latter D, Leclerc Y, Chisholm R, Keith M, Mazer CD, Rourke S. Canadian Institutes of Health Research (CIHR) \$128,000/year. A Prospective, Randomized, Outcome Evaluation of Beating Heart vs Arrested Heart Cardiopulmonary Bypass Grafting. 2003-2004.

Fisher J. Department of Veteran Affairs (US). \$150,000 US. Development of highly efficient mobile oxygen delivery system-Feasibility study. January 2004.

Fisher J. United States marine Corps Systems Command. \$1,050,000 US. Development of highly efficient mobile oxygen delivery system-System engineering. March 2004.

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

Gagliese L. Canadian Institutes of Health Research New Investigator Award. \$50,000 / year. Fellowship and Salary Awards. 2003-2008.

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.

Gagliese L. York University Faculty of Arts Research Grant. \$3,969. Age differences in cancer pain: A pilot study. 2002-2004.

Gagliese L, Rodin G, Moore M, Shepherd F. Canadian Institutes of Health Research (CIHR) (3 years) \$109,979/year. Age differences in cancer pain. 2003-2006.

Gagliese L, Snijdelaar V, Chan J, Katz G, Koren G. Canadian Institutes of Health Research (CIHR) Clinical Trial (3 years) \$106,515. Effects of NMDA-receptor antagonism on hyperalgesia, opioid use and pain after major surgery in young and elderly patients. 2002-2005.

Hare G. Bayer/CBS Partnership Fund \$91,807/year. The Mechanism of neuroprotection by albumin following TBI. 2002-2004.

Hare G. Dean's Fund. New Staff Grant. \$10,000/year. Anemia induced cerebral hypoxic gene expression: The role of neuronal nitric oxide synthase. 2003-2004.

Hare G. Canadian Anesthesiologists' Society Research Award. \$30,000/year. Characterization of cerebral gene expression following hemodilutional anemia utilizing microarray analysis. 2003-2004.

Hare G. (Co-Investigator). Heart and Stroke Foundation of Canada. \$37,934/year. Prolonging action potential duration and preventing cell injury in cardiac arrest. 2003-2005.

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.

Jadad AR, Browman G, Wright J, Ellis P, Greenberg M, Gospodarowicz, Eysenbach G. The Ontario Cancer Research Network. \$448,000. The Action Project: Accelerating Cancer Trials through and Internet-based collaborative community in Ontario. 2003-2006.

Karkouti K. Canadian Anesthesiologists' Society (CAS) - Dr Earl Wynands Research Award in Cardiovascular Anesthesia and/or Perioperative Blood Conservation. \$30,000. Renal Insufficiency in Cardiac Surgery: the role of Hemodilution. 2004-2005.

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

Kavanagh B. Ontario Ministry for Energy, Science & Technology. \$150,000. Premier's Research Excellence Award (PREA) (Program Development Grant) 2001-2006.

Kavanagh B. Canadian Institutes of Health Research (CIHR). \$260,000. Pre-clinical Assessment of Therapeutic Hypercapnia. 2001-2004.

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

Kavanagh B. Canadian Institutes of Health Research (CIHR) \$307,590. Ventilator induced lung injury: linking gene expression, physiology and outcome. 2003-2006.

Kavanagh B. Canadian Institutes of Health Research (CIHR) \$585,845. Therapeutic Hypercapnia. 2004-2009.

Kavanagh B, Sinderby C. National Institutes of Health (NIH) \$313,000 Neural Control of Mechanical Ventilation in the Preterm. 2003-2006.

Kavanagh B, Slutsky AS. Canadian Foundation for Innovation (CFI). \$4,900,000 Critical Care Unit for Research Excellence CCURE 2002-2007.

Librach L, Stern A, Jadad AR et al. Ontario Ministry of Health. \$995,000. Tele-homecare In Palliation Study (T.I.P.S) A Randomized Controlled Trial comparing the effectiveness of tele-homecare vs. standard homecare for palliative oncology patients. 2004-2007.

Mazer D. The Bayer Canadian Blood Services. HÉMA-QUÉBEC. Canadian Institutes of Health Research (CIHR) Partnership Fund. \$91,807/year. Mechanisms of neuroprotection by albumin following traumatic brain injury. 2002-2004.

Mazer D. (Co-Investigator). CIHR \$22,950/year. A Randomized Trial of a Lung-Open Ventilation Strategy (LOVS) in Acute Lung Injury. 2000-2006.

Mazer D. Canadian Blood Services. \$7,489/year. The Decision to Transfuse Red Blood Cells in Coronary Artery Bypass Surgery. 2003-2004.

Mazer D. (Co-Investigator). CIHR \$53,087/year Blood Conservation Using Antifibrinolytics: A Randomized Trial in a Cardiac Surgery Population – the BART Study. 2002-2005

Mazer D, Baker AJ, Hare GMT, Tian G-F, Yucel Y. Anemia Institute for Research and Education. \$30,000/year. The Role of Anemia and Red Blood Cell Substitutes in Traumatic Brain Injury. 2002-2004.

Mazer D, Baker AJ, Tian GF, Hare G. The Bayer Canadian Blood Services. HÉMA-QUÉBEC. Canadian Institutes of Health Research (CIHR) Partnership Fund. \$189,614 over 2 years. Mechanisms of neuroprotection by albumin following traumatic brain injury. 2002-2004.

Mazer D, Baker AJ, Tian GF, Hare G. Anemia Institute for Research & Education. \$60,000 over 2 years. The Role of anemia and red blood cell substitutes in traumatic brain injury. 2002-2004.

McGrath PA, Davis K, Katz J, Brown SC, Geist R, Vanden Kerkhoff E. Canadian Institutes of Health Research - New Emerging Team Initiative (CIHR) \$1,500,000 Gender Differences in Child Development: Vulnerability to Chronic Pain. 2003-2008.

McGrath PA, Katz J, Davis KD, Brown SC, Geist R, Vanden Kerkhoff E. Canadian Institutes of Health Research – IGH -New Emerging Team Grant. \$1,182,685. Gender differences in child development: Vulnerability to chronic pain. 2003-2008.

Morgan PJ, Cleave-Hogg D. Dean's Excellence Fund, Faculty of Medicine. \$15,000.00. Procedural Skills Development using Simulated Models. January 2004.

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.

Naik VN, Savoldelli GL, Yee B, Joo HS, Houston PL, Hamstra SJ. Physicians' Services Incorporated Foundation (PSI) \$25,000/year. The Evaluation of Patient Simulator Performance as an Adjunct to the Oral Exam for Senior Anesthesia Residents. 2004-2005.

Naik VN, Yee B, Joo HS, Savoldelli GL, Chung DY, Hamstra SJ. Canadian Anesthesiologists' Society Research Award (CAS). \$30,000/yr. Behavioral Performance in Anesthesia Crisis Resource Management with Repeated Exposure to High Fidelity Patient Simulation. 2004-2005.

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

Rodin G, Donner A, Gagliese L, Huggins MA, Jones J, Moore F, Shepherd F. Canadian Institutes of Health Research (CIHR) (3 years) \$78,515. A prospective study of the will to live and the desire for death in patients with lung and pancreatic cancer. 2003-2006.

Singer P, Jadad AR. Canada Foundation for Innovation (CFI), Ontario Innovation Trust. \$1,250,000. Information and Communication Technology Platform for Public Engagement to Optimize Canadian Innovation. 2003-2006.

Skinner H, Jadad AR et al. Canadian Institutes for Health Research (CIHR) \$100,000. Adaptation of an eHealth Web-based Intervention for Youth Smoking Prevention and Cessation in the Middle East. 2004-2006.

Taddio A, Katz J, Beyene A, Ohisson A, Shah V, Stevens B. Canadian Institutes of Health Research – Clinical Trial. \$450, 547. Effectiveness of sucrose analgesia in reducing pain responses in infants born to diabetic and non-diabetic mothers: a randomized controlled trial. 2003-2006.

Wong J. Physicians' Services Incorporated Foundation (PSI) \$38,000. Tranexamic acid for major spine surgery. 2004.

Zhang H. Ontario Thoracic Society (OTS) Research-in-Aid Grant. \$21,687/year. Molecular and cellular mechanisms of human neutrophil peptides in lung injury. 2003-2004.

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

Molecular mechanisms of neutrophil defensins in lung inflammation and injury. 2003-2004.

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

Evans B, Brunskill I, Green E, Gutierrez E, Holowaty E, Whitton T, Roberts W, Jadad AR, Kline D, Quam S, Fitch M. The Change Foundation. \$100,000. Harnessing Consumerism in Health and Health Care – User Tracking and Analysis of Publicly reported Cancer Treatment Wait Lists. 2003-2005

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