

## Chair's Report 2002 - 2003

This is my tenth and final Annual Report as Chairman of the Department of Anaesthesia. I want to take this opportunity to thank the staff, teachers and investigators in the Department who have contributed to the fulfillment of our academic mission during this period.

The purpose of Annual Report is to summarize the academic accomplishments of the Department of Anaesthesia and its members over the past year. The following pages adequately describe the details and accomplishments in research and education. I congratulate the anaesthetists who made the effort to excel and make these programs such a success. However, there were two major events of 2002-03 academic year, which may not be otherwise reflected in the contents of this annual report. The first event was the External Review of our academic department and the subsequent successful search for a new Chairman. The second event was the unique challenge of coping with the effect of SARS on our academic and clinical programs.

### **a) External Review:**

The Dean invited Drs. Bruce Cullen (University of Washington) and Donald Miller (University of Ottawa) to conduct the review in November 2002. The purpose of these periodic reviews is to "inform the Dean's office of the strengths and weaknesses of the Department relative to its teaching, research, organization, external relationships, reputation and stature". Equally important is the value of this analysis for the Department itself. In the past, I think External Reviews provided useful and pragmatic information for future planning and development. Sometimes, we have agreed with the assessments, other times we have disagreed. However they always provide an opportunity to objectively assess how the department and our programs are progressing.

In this case, I was pleased that the reviewers recognized that this department "has evolved during the past decade into a pre-eminent position amongst the 16 Canadian University Departments of Anesthesia". They stated that "this has been achieved by building and focusing on a clearly-defined research base, offering high quality training programs at the postgraduate level over a broad range of clinical experiences, fine teaching at the undergraduate level and a sound continuing education program". Appropriately, their summary of key findings recognized the leadership shown by the hospital chiefs, whose support was essential in ensuring academic time in the face of a critical shortage of providers.

The report described the department as "clearly the most research-intensive and academically productive Department of Anaesthesia in Canada" and the growth in research productivity during the past five years as "commendable". Importantly for the future, they recognized that "there exists a core of excellent, qualified basic science and clinical investigators" in the Department and that "the exciting clinician-scientist training program is unique in Canadian anesthesia and has resulted in the training of talented young investigators". They did recognize that the challenge for the future is to ensure "the availability of a protected research environment" as these clinician-scientists initiate their independent research careers. The reviewers noted that research from the Department is recognized for its excellence "both nationally and internationally" and that "existing levels of research funding and peer-reviewed publications rank this Department #1 in research in Canada and at a high level by international standards".

The reviewers specifically complimented our clinical teachers and noted "the Department has introduced innovations with respect to undergraduate education and provides major contributions to the Faculty's medical student teaching". The review addressed the issue of faculty morale and the "culture" within the department. They recognized that "much of the Department's success is contingent upon the 'goodwill' of (hospital) Chiefs and faculty" in the face of limited resources and a shortage of providers. The review ended with a statement that requires emphasis. They state that a "sobering conclusion for all involved in this review is that academic anesthesia programs in all English-speaking countries of the world are suffering many of the same challenges as faced in Toronto and that the future of the specialty (as an academic discipline) is a matter of serious concern".

Considering the overall review and the continuing accomplishments outlined in this Annual Report, we can be proud that the University of Toronto continues to excel and provides quality education and research in the field of anaesthesia and pain management. The External Review was followed by a search process and culminated with the appointment of Dr. David Bevan as Chair of the Department. With his experience and commitment to academic anaesthesia, he will show the leadership required and I am optimistic about the future prospects for the Department and our programs.

**b) Coping with SARS:**

A major challenge in early 2003 was the impact of Sudden Acute Respiratory Syndrome (SARS) on our clinical and academic work. It is a testimony to the professionalism and commitment of the anaesthetists in our teaching hospitals that the programs outlined in this Annual Report continued at such a high level throughout the year.

In an unprecedented decision, medical students were removed from the hospital environment. This curtailed the undergraduate program for final year students during their last term. Resident rotations to different hospitals stopped. Senior residents were given time off from clinical duties before examinations to ensure that they would be able to attend the Royal College examinations. We congratulate all residents who successfully completed their fellowship, and thank the residents who continued to attend to patient care as part of their professional responsibilities, in spite of a real risk to their personal health. The residents were included as partners in the healthcare team and their diligence and contributions were notable.

Anaesthetists used their expertise to develop training protocols and patient care guidelines to manage patients who had SARS. Some of these training programs included the use of the simulator and others included experiments with different types of oxygen masks. This experience emphasized the need to have a co-ordinated response that utilized expertise from all the teaching hospitals. Several protocols were developed, modified and published rapidly using the internet to inform colleagues in other centres of our approach. The Toronto protocols and experience was presented on the Anesthesia Patient Safety Foundation and ASA websites, as well as the Canadian Anesthesiologists' Society site. Anaesthetists innovated and demonstrated the value of an academic approach to a new problem. In the end, excellence in clinical care, critical appraisal and innovation provided the safest possible patient care and professional protection under adverse circumstances. Anaesthetists in University-affiliated hospitals did their part in coping with SARS.

The recurrence of SARS in May prompted the cancellation of Shields Day. This academic day had been planned and I thank the residents and fellows who submitted abstracts for presentation and also, Dr. John Drummond (University of California, San Diego) who was scheduled to give the Shields Lecture. Dr. Drummond will be the Shields Lecturer next year (2004). I also thank Mark Levine and Shue Lin Loo for their work organizing Shields Day for the past ten years. It requires a lot of planning and the growth of this day has been a major impetus for bringing colleagues in all hospitals together.

Special recognition should be given to the recipients of Departmental Awards, since the formal presentation at Shields Day was not possible. The Awards Committee (Chaired by Dr. Patricia Houston) determined that Dr. Mark Levine was the recipient of the Gerald Edelist Award for excellence in postgraduate education; Dr. Beverly Morningstar received the John Desmond Award for excellence in undergraduate education and Dr. Tricia Mark (resident) was given both the Laws Travel Fellowship and the Donald Hammel Award. The Laws Clinician-Scientist Fellowship was given to Dr. Jens Tan in support of his Master's degree in Education.

In closing, I want to express my appreciation to the anaesthetists in all the teaching hospitals whose work made the growth of our academic department possible over the past ten years. In particular, I thank Dr. David McKnight whose leadership of the Postgraduate Program was exceptional throughout this period. I also thank Ms. Lyn Michisor and Kathryn Bailey in the administrative offices of the Department for their work on behalf of the University Department. It has been a memorable ten years and I have enjoyed working with the members of the Department.

Robert J. Byrick MD  
Professor and Chair,  
Department of Anaesthesia

ACADEMIC/RESEARCH PRIORITIES

Department of Anaesthesia							
ACADEMIC/RESEARCH PRIORITIES							
DEPARTMENTAL PRIORITIES							
<b>BASIC SCIENCE</b>		<b>CLINICAL SCIENCE</b>				<b>EDUCATION</b>	
Malignant Hypertension	Neuroscience	Pharmacology	Cardioresp	Neuroscience/Pain	Epidemiology	Research	Evaluation
						Teaching/Learning	
DEPARTMENTAL INITIATIVES							
Genetic Ink	Molecular and Cellular basis of anaesthesia & brain injury	Volatile agents	Peri-operative ischemia	Pain management	Ambulatory anaesthesia	Simulation based education	Quality teaching assessment
		Intravenous agents		Neuroprotection	Critical care/trauma utilization and outcomes	CME	
			Echo-cardiography	Obs/gyn pain management		PGE	
		Transplantation			PACU outcomes	UGE	
acaprict.xls							

## ANAESTHESIA FELLOWS 2002/2003

### The Hospital for Sick Children

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Doherty, Dermot	IRELAND	Peliowski, Arie	CANADA
Dolci, Mirko	SWITZERLAND	Rohah, Denise	IRELAND
Galton, Seth	UK	Shichor, Tal	ISRAEL
Goetz, Sarah	AUSTRALIA	Smit, Christopher	NEW ZEALAND
Hall, Stuart	USA	Smith, Jonathan	UK
Lee, Jonathan	USA		

### Mount Sinai Hospital

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Balki, Mrinalini	INDIA	Mordani, Kavita	INDIA
Freytag, Angelika	GERMANY	Mota, Jorge	BRAZIL
Friedman, Zeev	ISRAEL	Rudich, Zvia	ISRAEL
Imasogie, Ngozi	NIGERIA	Shehata, Ramez	EGYPT
Iordanov, Kolio	BULGARIA		

### St. Michael's Hospital

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Assaad, Ihab	EGYPT	Kim, Daniel	CANADA
Bowry, Richard	UK	Lee, Trevor	CANADA
Fisher, Cristina	CANADA	Rahman, Ahmed	CANADA

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

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Jain, Jitendra	INDIA	Shendery, Alex	ISRAEL
Rutkowski, Malgorzata	USA		

### UHN/Toronto General Hospital

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Adelnaem, Esam	EGYPT	Ko, Raynauld	CANADA
Chamchad, Dmitri	RUSSIA	Klein, Andrew	UK
Freytag, Angelika	AUSTRALIA	Poopalalingam, Ruban	SINGAPORE
Hirasaki, Yuji	JAPAN	Shayan, Charles	US
Jose, Geraldine	PHILIPPINES	Van Rensburg, Adriaan	SOUTH AFRICA
Kakizawa, Karen	BRAZIL	Varadarajan, Bharathi	INDIA
Katznelson, Rita	ISRAEL	Wangel, Henrik	AUSTRALIA

**UHN/ Toronto Western Hospital**

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Ashraf, Waseem	PAKISTAN	McGrath, Brid	IRELAND
Balki, Mrinalini	INDIA	Merah, Nikihu	NIGERIA
Berklayd, Paul	RUSSIA	Oldman, Matthew	UK
Doran, Liam	IRELAND	Porter, Jennifer	IRELAND
Friedman, Zeev	ISRAEL	Ronayne, Michael	IRELAND
Kamming, Damon	SCOTLAND	Sinha, Avinash	UK
Mak, Peter	HONG KONG		

## **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **FACULTY TEACHING AWARDS**

**Dragan Djordjevic** Peters-Boyd Academy Award for Excellence in Teaching of Clinical Clerks  
**Sophia Wong** Peters-Boyd Academy – PBL Tutoring Award

#### **HOSPITAL TEACHING AWARDS**

**Simon Abrahamson** Outstanding Teacher Award for 2001-2002, Interdepartmental Division of Critical Care Medicine

**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

**Bruce Knox** St. Michael's Hospital Dr. A.J. Dunn Award for Undergraduate Teaching  
**Viren Naik** St. Michael's Hospital Dr. A.J. Dunn Award for Postgraduate Teaching

#### **NATIONAL AND INTERNATIONAL AWARDS**

**Charles Bryan** Received the *Edward Livingston Trudeau Medal* from the American Lung Association at the American Thoracic Society meeting in Seattle.

**Jose Carvalho** Member, Board of Directors, American Society of Regional Anesthesia and Pain  
Medicine

**Pamela Morgan** Office for Partnerships for Advanced Skills (OPAS), Award for Excellence in  
Teaching with Technology, Honourable Mention.

**Beverley Orser** Received the ISMP's (Institute for Safe Medication Practices) *Fifth Annual  
Cheers Award*.

**Haibo Zang** Critical Care Assembly Program Committee, American Thoracic Society,  
U.S.A. Distinct honour

## **STUDENT AWARDS AND ACHIEVEMENTS**

**Michael Bloom (PGY1)** Teaching award from the Wightman-Berris Academy

**Valerie Caraiscos** Mary Gertrude l'Anson Scholarship. Given to a doctoral student in the health  
sciences on the basis of academic merit and financial need. (Supervisor:  
Beverley Orser)

**Mohsina Chaklader** 1st Prize, 2002 SMH Summer Student Poster Competition. \$500 (Supervisor:  
Haibo Zhang)

**Lorenzo Del Sorbo** Fellowship, Department of Medicine, University of Toronto. \$20,000 (Supervisor:  
Haibo Zhang)

**Aye Aye Khine** (Ph.D) Merck Fross Fellowship Award, Division of Respiratory Medicine,  
University of Toronto. \$5,323.33. (Supervisor: Haibo Zhang)

**Conan McCaul** Research grant from the Association of Paediatric Anesthetists of Great Britain  
and Ireland. (Supervisor: Brian Kavanagh)

**Glen Newell** Postdoctoral Fellowship, Canadian Institutes of Health Research (CIHR)  
(Supervisor: Beverley Orser)

**Stefanos Voglis** (MSc.) Canadian Cystic Fibrosis Foundation Studentship. \$36,000 (Supervisor:  
Haibo Zhang)

**Timothy Welke (PGY1)** Teaching award from the Wightman-Berris Academy

**Duminda Wijesundera** 2003 Claire bombardier Award, Dept. of Health Policy Management and  
Evaluation. Awarded to the most outstanding graduate student in the  
Program in Clinical Epidemiology.

MSc.



## DEPARTMENT COUNCIL

Department Council is chaired by the Chair, Department of Anaesthesia. Membership comprises the Anaesthetists-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:** Robert Byrick

<b>Anaesthetists-in-Chief:</b>	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

<b>Deputy Chiefs:</b>	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

<b>Committee Chairs:</b>	Sharon Davies	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

## **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*

## **Alan K. Laws Travel Award**

The Laws Travel Award was established by the family, friends and colleagues of Alan Laws in his memory. The fellowship is awarded annually to provide support and encouragement for a senior resident in the Department of Anaesthesia to further their academic interest. Suitable applications may include course fees, or funding to assist travel to other university sites to take courses, see innovative educational programs, or work with educators/researchers in related areas. The award is presented at the Shields Research Day.

## SHIELDS ANAESTHESIA RESEARCH DAY

The 24<sup>th</sup> annual Shields' Research Day (May 9, 2003) – CANCELLED DUE TO SARS

**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*

Eighteen residents and fellows prepared papers for the session. These included:

1. Dr. A.Klein. *The cell phone in the cardiac operating room – a presentation of the evidence.* (Supervisor: Dr. G.Djaiani)
2. Dr. W.Wight. *Caesarean section for pre-eclampsia – a survey of UK consultant obstetric anaesthetist practice.* (Supervisor: Dr. S.Halpern)
3. Dr. C.Hickey. *Does remifentanyl-based anesthesia increase postoperative morphine consumption and pain scores after pediatric scoliosis surgery?* (Supervisor: Dr. M.Crawford)
4. Dr. S.Tsuchida. *Distribution of atelectasis-associated lung injury.* (Supervisor: Dr. B.Kavanagh)
5. Dr. E.You-Ten. *Amnestic effects of anesthetics: Sub-MAC concentrations of volatile anesthetics target novel GABA-A receptors.* (Supervisor: Dr. B.Orser)
6. Dr. A.Leung. *A survey of surgeons' attitudes to regional anesthesia.* (Supervisor: Dr. V.Chan)
7. Dr. M.Speakman. *Acute chest syndrome after abdominal surgery in children with sickle cell disease.* (Supervisor: Dr. M.Crawford)
8. Dr. D.Wijesundera. *Alpha-2 adrenergic agonists prevent perioperative cardiovascular complications: A meta analysis.* (Supervisor: Dr. S.Beattle)
9. Dr. R.Ko. *The impact of different inspired gas mixtures on one-lung ventilation.* (Supervisor: Dr. P.Slinger)
10. Dr. C.McCaul. *Epinephrine increases mortality after cardiac arrest.* (Supervisor: Dr. B.Kavanagh)
11. Dr. A.Sinha. *Systematic review of the role of N-Methyl D-Aspartate (NMDA) antagonists in preventive analgesia.* (Supervisor: Dr. C.McCartney)
12. Dr. K.Blight. *Cerebral expression of hypoxia-sensitive genes after CPB in the rat.* (Supervisor: Dr. D.Mazar)
13. Dr. A.Lagace. *Remifentanyl, propofol and cerebral blood flow.* (Supervisor: Dr. B.Bissonnette)
14. Dr. D.Chamchad. *A nationwide survey of current clinical practices in management of cardiopulmonary bypass in patients undergoing cardiac surgery.* (Supervisor: Dr. G.Djaiani)
15. Dr. R.Brull. *Regional anesthesia versus general anesthesia for ambulatory hand surgery.* (Supervisor: Dr. C.McCartney)
16. Dr. L.Trigazis. *The use of herbal remedies by Canadian perioperative patients.* (Supervisor: Dr. I.Devito)
17. Dr. A.Kornecki. *Pulmonary hypertension contributes to ventilation induced lung injury.* (Supervisor: B.Kavanagh)
18. Dr. J.Jain. *Prospective interim analysis of lumbar facet rhizolysis for low back pain.* (Supervisor: Dr. G.Faclier)

## PUBLICATIONS

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## **ABSTRACTS (Published in indexed Journals)**

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**Prisman E, Sasano H, Preiss D, Vesely AE, Fisher JA.** New circuit to maximize oxygen efficiency in hypoxia. Poster-presentation. American Society of Anesthesiologists. Orlando, FLA, USA. October 2002.

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- Stinson J, Boyer K, Palozzi L, Naser B, Langer J.** Retrospective Analysis of Patient Controlled Analgesia in Children After General Surgery. 6<sup>th</sup> International Symposium on Paediatric Pain. Sydney, Australia. June 2003.
- Stinson, J, Brown SC.** Treatment of Chronic Neuropathic Pain with Pamidronate: Case Report of two Adolescents. 6<sup>th</sup> International Symposium on Pediatric Pain. Sydney, Australia. June 2003.
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- Tian GF, Zhao X, Xu C, Baker AJ.** Posttraumatic spontaneous epileptiform activity in the rat hippocampus. Society for Neuroscience 32<sup>nd</sup> Annual Meeting. Orlando, FLA, USA. November 2002.
- Tonkikh A, El-Beheiry H, Pennefather PS, Adamchik Y, Carlen PL.** Pre- and postsynaptic calcium dynamics in young and aged hippocampal slices from Fisher 344 rats. Sixth IBRO World Congress of Neuroscience, Prague 2003.
- Trigazis L, Devito I, Downey K.** The use of herbal remedies by Canadian perioperative patients. *Can J Anesthesia* 2003; 50:A63.
- Varadarajan B, Jose G, Djaiani G, Fedorko I, Carroll J, Klein A, Karski J.** Perioperative administration of tranexamic acid decreases port operative claustrophobia. Canadian Anesthesiologists' Society. Ottawa, ON, 2003.
- Vesely A, Somogyi R, Azami T, Preiss D, Prisman E, Goodman L, Iscoe S, Pattison K, Bradwell J, Imray C, Fisher J.A.** Field testing of a new high-Altitude O<sub>2</sub> delivery system in the Bolivian Andes. 13<sup>th</sup> International Hypoxia Symposium. Banff, AB, CA. February 2003.

**Voglis S, Tullis ED, Silverman FS, Slutsky AS, Zhang H.** Impaired phagocytic function of CF lung neutrophils. *Am J of Respiratory and Crit Care Med* 2003; 167:A917

**Watt-Watson J, Chung F, Chan V, McGillion M.** Patients' pain management following discharge after day surgery. *Pain Research & Management* 2003; 8 Supplement B, P-114.

**Wight WJ, Halpern SH.** Back pain and epidural analgesia for labor and delivery: a systematic review. *Anesthesiology* 2003; SOAP supp:A131.

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**Wijeysundera D, Rao V, Beattie S, Ivanov J, Karkouti K, Fedorko L.** Evaluating surrogate measures of renal dysfunction after cardiac surgery. *Canadian Journal of Cardiology* 2002; 8(Suppl B):120B

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**Xiang Y-Y, Dong H, Lu W-Y.** Acetylcholinesterase expression affects glutamatergic synaptogenesis. 2003 Annual Meeting of Society for Neuroscience, New Orleans, LA, U.S.A.

**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

**Zhao M, Phan N, Moulton RJ, Baker AJ.** Lack of interleukin-1 type receptor does not improve white matter axonal dysfunction following traumatic brain injury. *J Neurotrauma* 19:10 P561, 1388 CPA. October, 2002.

**Zhao SZ, Hanna DB, Raymundo A, Cheung RY, Chung F, Chen CNMI.** Empirical dose-response relationship between the utilization of opioids and related side effects after laparoscopic cholecystectomy surgery (LCS). *Reg Anesth Pain Med* 2003; 28:A55.

## INVITED LECTURES

### **Angle P.**

Combined Rounds Department of Obstetrics and Gynaecology, Department of Anesthesia, SWCHC. PDPH: Lessons from the past and present, implications for the future. Toronto, ON, January 2003.

### **Baker AJ.**

Society of Neurosurgical Anesthesia and Critical Care 30<sup>th</sup> Annual Meeting. Parallel session problem based learning discussion. Orlando, FL, USA. October 2002.

Anesthesia Practice 2002 Clinical Anaesthesia: The challenge of change. Why anesthesiologists make a difference for patients with head injury. Toronto, ON, November 2002.

Critical Care Medicine Symposium. Traumatic brain injury: goal directed therapy, Traumatic brain injury: pharmacotherapy. Toronto, ON, November 2002.

Critical Care Medicine Symposium. Traumatic brain injury: pharmacotherapy. Toronto, ON, November 2002.

International Critical Care Congress 2003 & 9<sup>th</sup> Annual Conference of Indian Society of Critical Care Medicine. Neurocritical care monitoring beyond ICP. Jaipur, India. February 2003.

International Critical Care Congress 2003 & 9<sup>th</sup> Annual Conference of Indian Society of Critical Care Medicine. Neurotrauma resuscitation with special reference to hypertonic saline. Jaipur, India. February 2003.

### **Bevan DR**

11<sup>th</sup> Asian and Australasian Regional Congress of Anesthesiology. Visiting Lecturer. Monitoring neuromuscular Block. Research in Anesthesia – Ethics Panel. Kuala Lumpur. July 2002.

Annual Meeting of Chinese Society of Anesthesiologists. Key note speech: Muscle Relaxant Pharmacology. Nanjing, China. September 2002.

Visiting Professor. Shanghai 3<sup>rd</sup> Hospital. Shanghai, China. September 2002.

Visiting Professor. People's Hospital. How to publish a paper. Beijing, China. September 2002.

Visiting Speaker. 7<sup>th</sup> American-Japan Anesthesia Congress. Reversal of neuromuscular Blockade. Kofu, Yamanashi, Japan. October 2002.

Korean Society of Anesthesiologists annual meeting. Key-note speech: Advances in Neuromuscular Monitoring. Muscle relaxants and reversal – does choice make a difference?" Seoul, Korea. November 2002.

IARS 77<sup>th</sup> Clinical and Scientific Congress. Panel Discussion: You too can publish. New Orleans, LA, March 2003.

### **Bissonnette B**

Third International Update of Neuroanesthesia and Neurocritical Care. Pediatric Head Trauma. München, Germany, September 12-14 2002

Congrès de l'Association des Anesthésistes du Québec. L'anesthésiologiste "pédiatrique": Vaut-il la différence? Québec, PQ, 16 novembre 2002

Congrès de l'Association des Anesthésistes du Québec. La physiologie et l'utilité clinique de l'hypothermie. Québec, PQ, 16 novembre 2002

XXIVèmes Journées de Neuroanesthésie Réanimation de Langue Française. Barrière hématoencéphalique et oedème cérébral, mort neuronale et neuroplasticité. Oedème cérébral chez l'enfant versus chez l'adulte: Quelles sont les différences? Genève, Switzerland, 21-22 novembre 2002.

Association des anesthésistes Réanimateurs de Grenoble. La physiologie et l'utilité clinique de l'hypothermie en anesthésie-réanimation. Courmayeur, Italie, 9 janvier 2003

Association des anesthésistes Réanimateurs de Grenoble. Voies respiratoires chez l'enfant: pathologies et prise en charge anesthésique. Courmayeur, Italie, 10 janvier 2003

Association des anesthésistes Réanimateurs de Grenoble. Traumatisme cérébral chez l'enfant: Recommandations. Courmayeur, Italie, 12 janvier 2003

Third International Symposium on Therapeutic Hypothermia. Profound hypothermia and circulatory arrest for surgical procedures. Vienna, Austria, May 9-11 2003

Kinderanaesthesie - State of the Art. Paediatric Craniocerebral Trauma. Vienna, Austria, May 9-11 2003

Kinderanaesthesie - State of the Art. Physiology and pharmacology of local anaesthetics in children < 1 year. Vienna, Austria, May 9-11 2003

Hypothermia: Physiology and clinical utility. Children's Hospital. University of Buffalo, State University of New York. Buffalo, New York, USA, May 27, 2003

Pediatric neuroanesthesia: Physiopathology and Management. University of Buffalo, State University of New York. Buffalo, New York, USA, May 28, 2003

Pediatric head trauma: Mechanisms and Recommendations. The New York State Society of Anesthesiologists Annual Lecture. Buffalo, New York, USA, May 29, 2003

Canadian Anesthesiologists' Society Annual Meeting. The Pierre Limoges Pediatric Anesthesia Memorial Introductory Lecture. About the Man. Ottawa, Ontario, Canada, June 22, 2003

#### **Bohn D**

18<sup>th</sup> Annual CNMC Symposium. Management of respiratory failure in the older child (moderator). Sepsis and septic shock. Pediatric & Adult ECLS: Clinical issues and case reviews (co-moderator). Keystone, CO, USA. February 2002.

8<sup>th</sup> International Conference on Mechanical Ventilation. Ventilator workshop: high frequency ventilation. Pediatric trials. Valencia, Spain. April 2002.

British Paediatric Intensive Care Society Annual Meeting. Paediatric cardiac services in Canada. What about water? Southampton, UK. April 2002.

4<sup>th</sup> Argentine Congress of Emergency & Pediatric Critical Care. Status asthmaticus. Head trauma treatment: systematic approach. Post-surgical pulmonary hypertension: conventional approach, NO or what else? Septic shock. Re-defining the physiological paradigms of the critically ill. Salt, water and cerebral edema: the disease or the doctor? Buenos Aires, Argentina. May 2002.

13<sup>th</sup> Annual Extracorporeal Life Support Organisation Conference. Current use of HFOV in patients with congenital diaphragmatic hernia. Scottsdale, AZ, USA. September 2002.

3<sup>rd</sup> Special Topics in Paediatric Cardiac Intensive Care Conference: The Failing Myocardium. Vasoactive drugs: catecholamines and vasoconstrictors. Myocarditis: pharmacologic and mechanical support. London, UK. October 2002.

Czech Society of Anaesthesiology & Intensive Care Medicine. Respiratory failure in children: what can we do in 2002? Prague, Czech Republic. October 2002.

American Academy of Pediatrics Annual Meeting (Section of Critical Care). Issues relating to sepsis in children (participant). Hemodynamic support in the critically ill child (participant). Boston, MA, USA. October 2002.

Visiting Professor. Pediatric Grand Rounds. Fluid management: new evidence and new concepts. Cleveland Clinic. Cleveland, OH, USA. October 2002.

Toronto Critical Care Medicine Symposium. Strategies for severe hypoxemia. Toronto, ON, October/November 2002.

Swedish Association for Anesthesia and Intensive Care. CDH – the Toronto treatment model. Use of ECMO in CDH, when and why or never? Annual Medal Lecture: Acute hyponatraemia in hospitalized children: is it the disease or is it the doctor? Goteborg, Sweden. November 2002.

2003 Current Concepts in Pediatric Critical Care Refresher Course – Society of Critical Care Medicine Annual Scientific Symposium. Nitric oxide and permissive hypoxemia for acute lung injury. San Antonio, TX, USA. January 2003.

19<sup>th</sup> Annual CNMC Symposium. Neonatal lung disease: the science behind our therapies (co-speaker). Adult and pediatric lung disease: the science behind our therapies (moderator). Keystone, CO, USA. February 2003.

Critical Caring: Speaking Out for Sick Children symposium. Diabetic ketoacidosis and cerebral oedema. Care of the congenital diaphragmatic hernia (CDH) patient. Toronto, ON, CA. March 2003.

6<sup>th</sup> European Postgraduate Course in Neonatal and Pediatric Intensive Care. Controversies in fluid and cardiovascular management after burn injuries (roundtable participant). Accidental hypothermia. Decision making after near drowning (roundtable participant). Mechanical ventilation: friend or foe in cardiovascular failure? Perioperative cardiac intensive care (workshop) . Bern, Switzerland. March 2003.

Westmead International Update: Controversies in Perinatal Care. Congenital Diaphragmatic Hernia in Australia, New Zealand and North America: is “lung protective” preoperative care associated with differences in population-based and hospital based outcome? Sydney, Australia. May 2003.

The West of Ireland Anaesthesia Society Annual Meeting. Can preoperative care improve mortality and quality of survival? (via video-conference). High frequency ventilation; lessons learned from paediatrics. Fluid and electrolyte physiology; pitfalls for the unwary. Galway, Ireland. May 2003.

World Congress of Pediatric Critical Care. Moderator: Avoiding ventilator induced lung injury. Newest concepts in fluid resuscitation. Update on current management of CDH. Clinical management of the ARDS patient/How to incorporate alternative therapies.. Boston, MA , USA. June 2003.

The Lawson Wilkins Pediatric Endocrine Society & European Pediatric Endocrine Society – DKA Consensus Conference. Invited participant. London, UK. June 2003.

### **Bradley JW**

Student Research Day, Faculty of Medicine. University of Toronto. Challenges and motivations in the development of a web-based educational tool for undergraduate clerical skills teaching. Toronto, ON, January 2003.

Annual Meeting of the Association of Canadian Medical Colleges. Challenges and Motivators in the Development of a Web-based educational tool for undergraduate clinical skills teaching. Quebec City, PQ, April 2003.

Annual meeting of the Association of Canadian Medical Colleges. Live presentation of the ASCM website for the clinical skills working group. Quebec City, PQ, April 2003.

Tech\_Know\_File03 conference. Challenges and Motivators in the Development of a Web-based educational tool for undergraduate clinical skills teaching. University of Toronto, Toronto, ON, May 2003.

Slice of Life conference for medical multimedia developers and educators. University of Pennsylvania. Challenges and Motivators in the Development of a Web-based educational tool for undergraduate clinical skills teaching. Philadelphia, PA, USA. June 2003.



Meeting of the Association of American Medical Colleges. A case study of the evaluation of a clinical skills web site for medical students. Washington, DC, USA. November 2003.

**Brown SC**

Interventional Radiology M&M Rounds – Neuropathic Pain. Hospital for Sick Children. Toronto, ON, CA. February 2003.

**Byrick RJ**

Anaesthesia Section of Ontario Medical Association. Anesthesia human resources: 2000-2016. University of Guelph. Guelph, ON, September 2002.

Anaesthesia Section of Ontario Medical Association. Intra-operative fat embolism. University of Guelph. Guelph, ON, September 2002.

Academy of Anesthesiology. Dynamic characteristics of cerebral lipid microemboli. San Antonio, TX, USA. February 2003.

Academy of Anesthesiology. Anesthesia in critical care. San Antonio, TX, USA. February 2003.

Royal College Lecture, Canadian Anesthesiologists' Society Meeting. Academic anesthesiology: yesterday, today and tomorrow. Ottawa, ON, CA. June 2003.

**Carvalho J**

30<sup>th</sup> Annual Bert B. Hershenson Memorial Lecture. Childbirth in Brazil: An Anesthesiologist's Perspective. Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital, Harvard Medical School. Boston, MA, USA. March 2003.

VIII International Obstetric Anesthesia Conference. Labour Analgesia here and there: Santa Joana vs Mount Sinai. Hospital e Maternidade Santa Joana. Sao Paulo, Brazil. April 2003.

VIII International Obstetric Anesthesia Conference. Most Common Mistakes in Post-Cesarean Care to the Eyes of the Anesthesiologist. Hospital e Maternidade Santa Joana. Sao Paulo, Brazil. April 2003.

VIII International Obstetric Anesthesia Conference. A New Approach to the Elective Management of Placenta Percreta. Hospital e Maternidade Santa Joana. Sao Paulo, Brazil. April 2003.

Society for Obstetric Anesthesia and Perinatology Annual Meeting. Panelist: The Complicated Parturient. Phoenix, AZ, USA. May 2003.

**Chan BM**

Canadian Hemophilia Society Annual Meeting. Pain Management workshop. May 2003.

**Chan V**

Canadian Anesthetists' Society Annual meeting. Workshop: Ultrasound and Regional Techniques. Ottawa, Ontario, June 22, 2003

7<sup>th</sup> Annual Symposium, Hospital for Special Surgery. Speaker: Who says nerve stimulators are the best way to go? Controversies and Fundamentals in Regional Anesthesia 2003. New York, New York, April 2003

The American Society of Regional Anesthesia and Pain Medicine. Workshop: Mastering the Lumbosacral Plexus and Lower Extremity Peripheral Blockade: A Comprehensive Approach to Anatomy & Clinical Applications. San Diego, CA, April 5, 2003

The American Society of Regional Anesthesia and Pain Medicine. Speaker: Imaging Techniques for PNB, San Diego, CA, April 4, 2003

13th Annual Hospice Palliative Care Conference. Workshop: Management of Malignant Pain: Anesthesiologist's Perspectives. Toronto, ON, March 2003

The Toronto Chapter of Oncology Nurses Group. Speaker: Anesthetic Interventions For Cancer Pain. Toronto, January 2003

The 22<sup>nd</sup> Annual Meeting of Japan Society for Clinical Anesthesia. Speaker: Patient Controlled Epidural Analgesia. Kofu, Japan, November 2002

Regional Anesthesia & Pain Medicine 2002 Conference. Workshop Leader: Intersternocleidomastoid, Infraclavicular and Continuous Catheter. Toronto, Ontario, September 29, 2002

Regional Anesthesia & Pain Medicine 2002 Conference. Speaker: New NSAIDs, Toronto, Ontario, September 28, 2002

### **Chung F**

5<sup>th</sup> International Congress on Ambulatory Surgery. Speaker: Discharge Criteria: What Are the Issues. Hynes Convention Center, Boston, MA, May 9, 2003

Eastern Ontario Orthopedic Review. National Capital Orthopaedic Association. Speaker: New Approaches to Outpatient Management of Postoperative Pain. Le Grand Lodge, Mont Tremblant, QC, May 3, 2003

Visiting Professor, Vancouver General Hospital, Vancouver, BC, April 9, 2003 - "Obstructive Sleep Apnea and Anesthesia"; "Patient Selection Criteria"; "Optimal Management of Postoperative Nausea & Vomiting"; "Pain Management After Ambulatory Anesthesia"

Visiting Professor, Queen's University, Kingston, ON. Obstructive Sleep Apnea and Anesthesia. March 21, 2003

12<sup>th</sup> Annual Whistler Winter Anesthesia Refresher Course & Review. Speaker: The Geriatric Patient. Whistler, BC, February 26, 2003

12<sup>th</sup> Annual Whistler Winter Anesthesia Refresher Course & Review. Speaker: Sleep Apnea: What Should an Anesthesiologist Know? Whistler, BC, February 26, 2003

12<sup>th</sup> Annual Whistler Winter Anesthesia Refresher Course & Review. Speaker: Pain and Ambulatory Anesthesia. Whistler, BC, February 25, 2003

International Symposium on Anesthesia for Day-Case Surgery, International Winter Symposium. Speaker: Fast tracking in Ambulatory Anesthesia. Leuven, Belgium, January 10-11, 2003

Hilton New York, sponsored by Albert Einstein College of Medicine and Montefiore Medical Center. Speaker: Does the Central Sensitization of Pain Concept have any Clinical Implications? New York, NY, December 8, 2002

Anaesthetic Practice 2002. Speaker: Adverse Outcomes in the Elderly. Toronto, Ontario, November 30, 2002

Future Watch 2002: Current Trends in Surgical Ambulatory Care. Keynote Speaker: Ambulatory Anaesthesia and Surgery – A New Perspective. York Central Hospital, Richmond Hill, Ontario, October 23, 2002

6<sup>th</sup> Annual Meeting of Anesthesiology Department. Speaker: ASA Practical Guidelines for Postanesthetic Care. Los Magallanes de Catia Western General Hospital. Margarita Island, Venezuela, September 26, 2002

6<sup>th</sup> Annual Meeting of Anesthesiology Department. Speaker: Anesthesia and Obstructive Sleep Apnea. Los Magallanes de Catia Western General Hospital. Margarita Island, Venezuela, September 26, 2002

6<sup>th</sup> Annual Meeting of Anesthesiology Department. Speaker: Management of Postop Pain in Ambulatory Anesthesia. Los Magallanes de Catia Western General Hospital. Margarita Island, Venezuela, September 26, 2002

Management Strategies for the Post-op Ambulatory Care Unit Patient. Speaker: Pain Management Discussion. Ottawa Hospitals. Ottawa, Ontario, September 24, 2002

Management Strategies for the Post-op Ambulatory Care Unit Patient. Speaker: Pain Management Discussion. Moncton General Hospital. Moncton, New Brunswick, September 23, 2002

**Cooper RM**

Canadian Anesthesiologists Society Annual Scientific Meeting. Airway Workshop. Ottawa, ON, June 2003.

Visiting Professor. Department of Anesthesia, Queen's University. Grand Rounds: Laryngoscopy—Past, present and future. Resident Seminar: Extubation of the Difficult Airway. Kingston, ON, May 2003.

Anesthetic Practice 2002: Focus on the Airway. Airway Workshop. University of Toronto. Toronto, ON, December 2002.

Airway seminar for residents and staff. Mt. Sinai School of Medicine. New York City, NY, USA. November 2002.

Visiting Professor, University of Western Ontario. Grand Rounds: Laryngoscopy—Past, present and future. Resident Seminar: Extubation of the difficult airway. Windsor, ON, October 2002.

Society for airway Management, Annual scientific Meeting. Videolaryngoscopy workshop. Newport Beach, CA, USA. September 2002.

**Cox PN**

XIV International Pediatric Congress. Mechanical ventilation with lung protector & recruitment alveolar (ii) High frequency oscillation (iii) Sedation in the pediatric care unit. Viña del Mar, Chile. September 2002.

10<sup>th</sup> Workshop on Pediatric Intensive Care. HFOV. NO Inhaled Therapy & Liquid Ventilation. Role of ER & ICU in Children's Hospitals . Tokyo, Japan. October 2002.

19<sup>th</sup> Annual CNMC Symposium on ECMO and Advanced Therapies for Respiratory Failure. Keystone, CO, USA. February 2003.

5<sup>th</sup> International Consensus Conference in Critical Care. Challenges in End of Life Care in the ICU. Jury Member. Brussels, Belgium. April 2003.

Principle Investigators Meeting. PALISI Meeting. Boston, MA, USA. June 2003.

PIC 2003, 4<sup>th</sup> World Congress on Pediatric Intensive Care. Pulmonary Sciences Poster. Moderator. Debate Participant: Con - Inhaled Nitric Oxide Improves Outcomes . Symposium Participant: Disease-Specific Ventilator Strategies – Lung Injury after Bone Marrow Transplantation. Boston, MA, USA. June 2003.

European ECMO Society Annual Meeting. Invited Speaker. Glenfield Hospital. Leicester, UK. June 2003.

**Crawford, MW**

Telemedicine. Presentation. Perioperative management of sickle cell disease. September 2002.

**Davies S**

University of Toronto Annual CE Retreat. Anesthesiologists' Preferences Regarding Design and Delivery of Continuing Education Courses. Toronto, ON, CA. October 2002.

**Djaiani G**

Fellows Teaching Rounds, Toronto General Hospital. Quantitative assessment of ventricular function: Echocardiographic implications. Toronto, ON, October 2002.

The ISMICS Meeting. Fast track cardiac anesthesia. San Francisco, CA, USA. June 2003.

Canadian Anesthesiologists' Society. Annual Meeting. Perioperative Diastolic dysfunction: Echocardiographic implications in cardiac surgery. Ottawa, ON, June 2003.

**EI-Beheiry H**

Confidential Outcome Review Rounds. Unstable supraventricular tachycardia and acute subdural hematoma – Case presentation. Toronto Western Hospital, October, 2002.

**Fedoroko L.**

The Society of Cardiovascular Anesthesiologists. Perioperative predictors of delayed extubation after fast track cardiac anesthesia. Miami, FLA, USA. May 2003.

BART trial Steering Committee. Genetic polymorphisms and bleeding after cardiac surgery. Ottawa, ON, June 2003.

**Fisher J**

13<sup>th</sup> International Hypoxia Symposium. Field testing of a new high-altitude oxygen delivery system in the Bolivian Andes. Banff, AB, February 2003.

13<sup>th</sup> International Hypoxia Symposium. Increased PO<sub>2</sub> gradient not cerebral blood flow improves brain oxygenation at altitude. Banff, AB, February 2003.

U.S. Army (JRCAB), Marines, Air Force (AFMESA). Increasing efficiency of oxygen delivery in the field. Washington DC, USA. March 2003.

**Gardner-Nix JS**

Nursing Rounds. Sunnybrook and Women's College Health Sciences Centre. Control of chronic non-cancer pain. Toronto, ON, October 2002.

Grand Rounds. Scarborough General Hospital. Management of noncancer pain. Toronto, ON, May 2003.

**Goldszmidt E**

Anesthetic Practice 2002. Workshop on Combined Spinal Epidural and Low Dose Mobile Techniques for Labor and Delivery. Toronto, ON, December 2002.

**Halpern S**

Epidural Abscess: Case review and round table discussion. South Lake Regional Health Centre. Newmarket, ON, May 2003.

Midwifery Education Programme. Ryerson University. Pharmacologic Pain Relief in Labour. Toronto, ON, September 2002.

Midwifery Education Programme. Ryerson University. Systemic Analgesia for Labour. Toronto, ON, September 2002.

Midwifery Education Programme. Ryerson University. Neuraxial Analgesia for Labour. Toronto, ON, September 2002.

Midwifery Education Programme. Ryerson University. Neuraxial Analgesia for Labour: Practical Aspects. Toronto, ON, September 2002.

8<sup>th</sup> International congress of Cardiothoracic and Vascular Anesthesia in conjunction with the 19<sup>th</sup> International Congress of the Israel Society of Anesthesiologists. Do we need a test dose for regional anaesthesia? Dan Panorama Hotel, Tel Aviv, Israel. November 2002.

8<sup>th</sup> International congress of Cardiothoracic and Vascular Anesthesia in conjunction with the 19<sup>th</sup> International Congress of the Israel Society of Anesthesiologists. The effect of epidural analgesia on the outcome of labor. Dan Panorama Hotel, Tel Aviv, Israel. November 2002.

Anaesthesia Grand Rounds. Hadassah University Hospital. Evidence based practice in Anaesthesia. Ein Karem. Jerusalem, Israel. November 2002.

**Hare GMT**

IARS Clinical and Scientific Congress. Hemodilutional anemia causes transient cerebral hypoxia and increased cortical nNOS mRNA levels. New Orleans, LA, USA. March 2003.

Canadian Anesthesiologists' Society Annual Meeting. Anemia causes increased cortical nNOS mRNA levels in rats. Ottawa, ON, June 2003.

**Holtby H**

Society of Cardiovascular Anesthesiology Annual Meeting. Mechanical Support of the Circulation; when to initiate. Miami, FLA, USA. April 2003

Millennium 2003 Meeting. Difficult Pediatric Cases. Crystal Mountain, Michigan. USA. August 2003.

Millennium 2003 Meeting. Preparing Children for the Operating Room. Crystal Mountain. Michigan. USA. August 2003.

**Houston P**

Symposium, Canadian Anesthesiologists' Society Annual Meeting. Ottawa, ON, SARS – Effects on an institution. June 2003.

**Jadad AR**

4<sup>th</sup> Symposium on Systematic Review Methodology. Pushing the Boundaries. St. Catherine's College. Oxford, UK. July 2002.

18<sup>th</sup> UICC International Cancer Congress. eHealth Innovation and knowledge management in cancer. Oslo, Norway. July 2002.

Communication, Information & the Internet, ESO. Montecatini Terme. Masterclass in Clinical Oncology. Tuscany, Italy. August 2002.

Rocky Mountain EBHC. Workshop: Evidence – based decisions making in the Internet Age. Keystone, CO, USA. August 2002.

10<sup>th</sup> World Congress on Pain, IASP Congress. Keynote speaker: Pain in the Information Age. San Diego, CA, USA. August 2002.

Canadian Alliance for Continuing Health Education. The Future of elearning. Ottawa, ON, CA. September 2002.

CACCN conference. Future Technological Innovations. Niagara Falls, ON, CA. October 2002.

First International Conference on Inner City Health. Toronto, ON, CA. October 2002.

American Society of Therapeutic Radiation Oncology Annual Conference. Therapeutic radiation oncology in the age of the Internet: opening our eyes to eMedicine. New Orleans, LA, USA. October 2002.

Medical Informatics meeting. Dubai, UAE. October 2002.

2<sup>nd</sup> World Congress on Men's Health. Men's Health in the Information Age. Vienna, Austria. October 2002.

AMIA 2002 Congress. Bio Medical Informatics: One Discipline. San Antonio, TX, USA. November 2002.

The National Congress of Family Physicians. Spain. November 2002.

Canadian Colombian Professional Association. Canada as a mini-model of the world. Ontario Club. Toronto, ON, January 2003.

Seminar: Distance and Trust: How does telemedicine change social relations between clinicians, University of Toronto. Toronto, ON, CA. February 2003.

City Wide Rounds, Princess Margaret Hospital. Evidence-based decision-making and anesthesia: opportunities, challenges and perils in the information age. Toronto, ON, February 2003

GTA Rehab Network Conference. Has the internet revolutionized the way people perceive and obtain rehabilitation information? Toronto, ON, February 2003.

ICR/HC Palliative Care Research Working Group. Networking Infrastructure Workshop. Toronto, ON, February 2003.

Saturday at the University. Chronic Pain in the Era of eHealth. Toronto, ON, February 2003.

International Diversity Conference. Toronto, ON, February 2003.

CHSRF Annual workshop. Anecdotes and Antidotes. Montreal, PQ, March 2003.

Pain Week. Problem of Pain. Toronto, ON, March 2003.

Summit on Clinical Trials Management. T Clinical Trials in the Age of the Internet: Where are we now and where could we go? Toronto, ON, March 2003.

Initiative on Methods, Measurement and Pain Assessment in Clinical Trials (IMMPACT). Washington, DC, USA. April 2003.

XIII National Congress of Hospitals. Spain. May 2003.

The Annual Meeting of the Obstetric Anaesthetists' Association (OAA). London, ON, May 2003.

The 2003 Cudmore Lecture. Halifax, NS, May 2003.

Canadian Pain Society, Annual Conference. Toronto, ON, May 2003.

eHealth Conference. Toronto, ON, May 2003.

First International Conference on Cancer on the Internet. New York City, NY, USA. June 2003.

eHealth Summit. Niagara-on-the-Lake, ON, June 2003.

Technology and Place Conference. Health Care. Toronto, ON, June 2003.

American Library Association Conference. Toronto, ON, June 2003.

World Technology Summit and Award. San Francisco, CA, USA. June 2003

### **Karkouti K**

The Toronto Anesthesia Symposium: Erythropoietin should be use routinely in surgical patients—pro-con debate. Toronto, ON, 2002.

The Canadian Anesthesiologists' Annual Meeting. Chair and Speaker. Synthetic colloids in fluid management – a new perspective on plasma volume expansion. Ottawa, ON, 2003.

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

**Kavanagh BP**

6<sup>th</sup> European Conference on Pediatric and Neonatal Ventilation. CO<sub>2</sub> and The Lung – any benefit? Brussels, Belgium. October 2002.

Grand Rounds, Dept of Critical Care, University of Calgary. Physiology in ICU - we're not as clever as we think. Calgary, AB, Canada. 2002.

Roundtable Consensus Conference. Targets for Mechanical Ventilation. Erasme University. Brussels, Belgium. March 2003.

International Symposium on Intensive Care Medicine. Carbon dioxide. Brussels, Belgium. March 2003.

Pediatric Critical Care Nurses' Conference. Measuring Tissue Perfusion. Toronto, ON, CA. March 2003.

Conference Co-Chair International Consensus Conference. Challenges in End-of-Life care in the ICU. Brussels, Belgium. April 2003.

Canadian Anesthesiologists' Society. Perioperative CO<sub>2</sub> Control. Ottawa, ON, Canada. June 2003.

Canadian Anesthesiologists' Society. Inhaled Nitric Oxide in ARDS (Debate – pro). Ottawa, ON, Canada. June 2003.

**Macarthur AJ**

2003 Annual Meeting of the Association of Anesthetists of Quebec. IV PCA for Labor. Quebec City, PQ, CA. April 2003.

2003 Annual Meeting of the Association of Anesthetists of Quebec. Workshop on Managing Labor Analgesia. Quebec City, PQ, CA. April 2003.

**Manninen P**

Canadian Anesthesiologists' Society Annual meeting. Case Discussion, Increased Intra-cranial Pressure from a Rapidly Expanding Brain Tumour and 30 weeks Pregnant. Ottawa, Ontario, June 24, 2003

Canadian Anesthesiologists' Society Annual meeting. Case discussion. Anesthesia for craniotomy in a pregnant patient. Ottawa, Ontario, June 24, 2003.

Brain Day. Neurosurgical Anesthesia. Toronto Western Hospital, Toronto, Ontario, March 17, 2003

American Society of Anesthesiologists. Panel Speaker: What's New in Neuroanesthesia: Management of Awake Craniotomy. Orlando, Florida, October 2002

**Mazer CD**

Society for the Advancement of Blood Management (SABM) Symposium. Physiologic basis of artificial O<sub>2</sub> carriers – present and future. Washington, DC, USA. September 2002.

American Society of Anesthesiologists Annual Meeting. Transfusion issues in patients with cardiovascular disease. Orlando, FL, USA. October 2002.

Toronto Critical Care Medicine Symposium. Blood conservation strategies: use of recombinant Factor VIIa. Toronto, ON, November 2002.

**McCartney CJL**

Canadian Pain Society Annual Meeting. CE course sponsorship, Pain - The Silent Epidemic. Toronto, Ontario, May 22-24, 2003

Canadian Pain Society Annual Meeting. Chair and Speaker: Controversies in the Medical Management of Chronic Pain: Interventional Therapy. Toronto, Ontario, May 22, 2003

The American Society of Regional Anesthesia and Pain Medicine. PBL Session, Is it safe to use a neuraxial block in a patient with aortic stenosis? San Diego, CA, April 3, 2003

The American Society of Regional Anesthesia and Pain Medicine. Master Class, Variations of the Supraclavicular Block. San Diego, CA, April 3, 2003

Regional Anesthesia & Pain Medicine 2002 Conference. Speaker: New Adjuncts. Toronto, Ontario, September 28, 2002

### **McCluskey S**

Chair Satellite Session. Blood - Safety and education: the role of the anesthesiologist. Canadian Anesthesiologists' Society Annual Meeting. Ottawa, ON, 2003.

Canadian Society for Transfusion Medicine and Hematology. Quebec Annual Meeting. Blood Conservation Strategies. Halifax, NS, May 2003.

### **McGrath PA**

Annual Meeting of the Canadian Pain Society. Impact of Untreated Pain. Toronto, ON, May 2002.

Annual Meeting of the Pediatric Oncology Group of Ontario. Non-drug Approaches for Pain and Symptom Control. Toronto, ON, November 2002.

### **McKnight DJ**

Queen's University Postgraduate Education Committee Retreat. Workshop for Program Directors: CanMEDS: Myths and Realities. Kingston, ON, July 2002.

Royal College of Physicians and Surgeons of Canada. Workshop for New Program Directors. Ottawa, ON, September 2002.

Canadian Anesthesiologists' Society Annual Meeting. Ethical Aspects of Consent for Controversial Treatment. Ottawa, ON, June 2003.

### **McRae K**

European Respiratory Society. Perioperative changes in cytokines in breath condensate following lung transplantation. Hot Topic: Exhaled breath markers of oxidative stress and inflammation in mechanically-ventilated patients. Stockholm, Sweden, September 2002.

Writing group for new guidelines for Exhaled nitric oxide (NO) in mechanically ventilated patients. ATS workshop on Exhaled Biomarkers. Toronto, ON, December 2002.

### **Morgan PJ**

Association of Canadian University Departments of Anesthesia (ACUDA) Chairs meeting. With: Cleave-Hogg D. Simulation in Education: The University of Toronto Experience. Toronto, ON, CA. January 2003.

Interdepartmental rounds, Anesthesia and Obstetrics. Sunnybrook & Women's College Health Sciences Centre. Human Error in medicine: Where are we going wrong? Toronto, ON, CA. February 2003.

23<sup>rd</sup> Myron B. Laver Postgraduate Course. Experimental and Visual Learning: Teaching and Training in Clinical Medicine. Basel. Switzerland. March 2003.

23<sup>rd</sup> Myron B. Laver Postgraduate Course. Selection and Evaluation: Teaching and Training in Clinical Medicine. Basel, Switzerland. March 2003.



Multidisciplinary Grand Rounds. McMaster University. Educational Applications of Simulation: The Toronto Experience. Hamilton, ON, CA. June 2003.

The Nexus Conference: Connecting Teaching, Technology and Inclusive Learning. With: Cleave-Hogg, D. Integrating clinical education, faculty development and research using anesthesia simulation. Toronto, ON, CA. May 2003.

**Murphy P**

Cardiovascular Cardiologists Annual Meeting. Common congenital Cardiac Defects, Transesophageal Echocardiography Basic Workshop, Society of Miami, FLA, USA. April 2003.

Trouble Rounds for Controversies in Perioperative Medicine, Bordeaux, France, May 2003.

Controversies in Perioperative Medicine. Lessons from the Coroner Part 1. Bordeaux, France, May 2003.

Controversies in Perioperative Medicine. Lessons from the Coroner Part 2. Bordeaux, France, May 2003.

American Society of Echocardiography 14<sup>th</sup> Annual Scientific Sessions. Clinical decision-Making with Structural Mitral Valve Disease: Illustrative Cases. Las Vegas, NV, USA. June 2003.

Canadian Anesthesiologists' Society Annual Meeting. Mitral Valve Disease. Intermediate Transesophageal Echocardiography Workshop. Ottawa, ON, June 2003.

**Naik VN**

See one, do one, teach one—not on my mother: High and low fidelity patient simulation. Royal College of Physicians and Surgeons Canada Annual Meeting. Ottawa, ON, CA. September 2002.

Antifibrinolytics: They're not just for cardiac surgery. Anaesthetic Practice 2002. Toronto, ON, CA. November 2002.

**Peng P**

Canadian Anesthesiologists' Society Annual meeting. Case Discussion, Perioperative Management of Three Patients on Anti-coagulants. Ottawa, Ontario, June 22, 2003

Canadian Anesthesiologists' Society Annual meeting. Moderator: Chronic Pain Management Section Breakfast. Ottawa, Ontario, June 22, 2003

Regional Anesthesia & Pain Medicine 2002 Conference. Workshop Leader: Axillary, Interscalene and Continuous Catheter. Toronto, Ontario, September 29, 2002

Wasser Pain Management Center. Perceptorship for chronic pain physicians: Overview of chronic pain. Mount Sinai Hospital, Toronto, Ontario, September 2002

**Tumber P**

Canadian Anesthesiologists' Society Annual meeting. Case Discussion: Acute Pain Control after Major Spinal Surgery. Ottawa, Ontario, June 24, 2003

Department of Obstetrics and Gynaecology lecture. Speaker: Acute Pain Management. University of Toronto, Toronto, Ontario, January 28, 2003

UHN ER Nurses Conference (7<sup>th</sup> annual). Speaker: Pain and Addiction. Toronto, Ontario, October 3, 2002

Regional Anesthesia & Pain Medicine 2002 Conference. Workshop Leader: Femoral, Popliteal, Ankle and Continuous Catheter. Toronto, Ontario, September 29, 2002

Regional Anesthesia & Pain Medicine 2002 Conference. Speaker: New Local Anesthetics. Toronto, Ontario, September 28, 2002

Tokyo Women's Medical University. Visiting Lecture: Update on Local Anesthetics. Tokyo, Japan, July 15, 2002

**Wong D**

Canadian Anesthesiologists' Society Annual meeting. Case Discussion: The Patient with CAD for Hip Replacement: Does Beta-Blocker Reduce risks. Ottawa, ON, June 22, 2003

Society of Dental Anesthesia annual meeting. Speaker: Preoperative evaluation of the patient with CAD: can we reduce risks? Toronto, Ontario, November 1, 2002

**Wong J**

Anaesthetic Practice 2002. Speaker: BIS and the Elderly. Toronto, Ontario, November 30, 2002

**Zhang H**

Research Seminar. Division of Respiratory Medicine. Defensins and lung injury. University of Toronto, Toronto, Ontario, July 5, 2002

XXXIII World Congress of International College of Surgeons.  $\alpha$ -defensins in sepsis and acute lung injury. Taipei, Taiwan, October 27-31, 2002

XXXIII World Congress of International College of Surgeons. (Chair) Critical Care and Trauma.. Taipei, Taiwan, October 27-31, 2002

Visiting Professor, Department of Chest Medicine, Chi Mei Foundation Medical Center. Epithelial – immune cell interaction after LPS. Tainan, Taiwan, October 30, 2002

17<sup>th</sup> International Symposium on Critical Care Medicine. LPS uptake mediates cell cross talk through ICAM-1: a possible mechanism for failure of anti-endotoxin antibody in sepsis trials. Trieste, Italy, November 15-19, 2002

Gordon Research Conference. Antimicrobial peptides. Il Ciocco, Italy, April 27 – May 2, 2003

2003 American Thoracic Society International Conference. LPS uptake mediates cell cross-talk through ICAM-1: a possible mechanism for failure of anti-LPS antibodies in sepsis trials. Seattle, Washington, USA, May 17-21, 2003

## PEER REVIEWED GRANTS

**Angle P.** RA Gordon Clinical Research Award: Canadian Anesthesiologists' Society: \$20,000. Development of a Multi-attribute Index to Measure the Quality of Labour Analgesia- Phase I: Developing the QLA Index. 2003.

**Baker AJ.** (Site Investigator), **Tucker WS, Marotta T, Montanera W.** National Institutes of Health. USD \$32,000/yr. National Institute of Neurological Disorders and Stroke, Multi-Centred Trial RO1 NS38484 (only Canadian site). Balloon Prophylaxis of Aneurysmal Vasospasm.

**Baker A, Beed S, Boiteau P, Fenwick J, Shepherd J.** Clarica Life Insurance Company. \$150,000 (four sites). An evaluation of the potential for organ and tissue donation at four Canadian tertiary health care centres. 2002-2004.

**Beattie S.** Heart and Stroke Foundation. \$180,000. The PRIME (Perioperative Renal Insufficiency Management) study: A randomized, double-blinded, placebo-controlled trial of N-acetylcysteine for preventing renal injury after cardiac surgery. 2003.

**Bohn D.** (Co-Investigator) Canadian Institutes of Health Research, Ontario Neurotrauma Foundation, CHEO Research Institute, Hospital for Sick Children Foundation, Physicians Services Incorporated, 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.** (Co-Investigator) Heart & Stroke Foundation of Ontario. \$124,626. In-vivo assessment of myocardial force-frequency relationships in children. 2002-2004.

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

**Bohn D.** Fujisawa Canada. Co-PI. \$565,000. Nephrotoxicity: Conventional versus Liposomal Amphotericin B in Children. 2003 – 2006.

**Brown SC.** Canadian Institutes of Health Research. \$1.5 million. Gender Differences in Child Development: Vulnerability to Chronic Pain. 2003-2008.

**Brown SC.** (Co-investigator) National Institutes of Health. \$220,000. Children's Sedation Headset. 2003.

**Carlen P, El-Beheiry H.** Canadian Institutes of Health Research. \$10,000. Synaptic mitochondria: Physiology and pathophysiology. 2002-2003

**Chastain D, Hart G, McGrath PA.** The National Institutes of Health. \$290,000 (US). Pediatric Conscious Sedation Device. 2003-2008.

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

**Coyte P, McKeever P, Jadad AR.** Canadian Institutes of Health Research (CIHR). \$1.5 million. Health Care, technology, and place. (Training Grant). 2002-2007.

**Coyte P, McKeever P, Jadad AR.** Canadian Institutes of Health Research (CIHR). \$1 million. ICE (Interdisciplinary Capacity Enhancement Team) funding for HCTP. 2002-2003.

**Duffin J.** Canadian Institutes of Health Research (CIHR). \$83,388. Functional relations among respiratory neurons. April 2002-March 2003

**EI-Beheiry H, Carlen PL, Pennefather P.** Alzheimer's Association (U.S.A.). \$76,000 US/year. Presynaptic mitochondria: A therapeutic target for Alzheimer's disease. 2002-2003

**Eysenbach G, Browman G, Kushniruk A, Jadad AR.** Canadian Institutes of Health Research (CIHR). \$100,000. How should evidence be presented? Electronic Guideline usability and information design evaluation study (eGuides). 2002-2003

**Eysenbach G, Jadad AR.** The Change Foundation. \$100,000. Development and evaluation of internet training courses for cancer patients. 2002-2004.

**Fisher J.** Ontario Thoracic Society. \$6,800. The effect of breathing pattern and oxygen flow on dispersal of respiratory droplets with various oxygen masks. 2002.

**Fisher J.** Physicians' Services Incorporated Foundation (PSI). \$19,300. Cerebral oxygen delivery in humans during and after exposure to carbon monoxide. 2003.

**Gagliese L.** Canadian Institute of Health Research-op. \$235,500. A prospective study of the will to live and the desire for death in patients with lung and pancreatic cancer. 2003-2006.

**Gagliese L.** Canadian Institute of Health Research (CIHR) New Investigator Award. (5 years)

**Gagliese L, Malcolm J, Rodin GM, Shepherd FA.** Canadian Institutes of Health Research (CIHR). \$109,979/yr. Age differences in cancer pain.

**Hare, G.** The Physicians' Services Incorporated Foundation (PSI). \$135,000/ 2 years. Anemia induced cerebral hypoxia following traumatic brain injury. September 2001-2003

**Hare G.** The Anemia Institute for Research and Education. \$30,000/ 1 year. Effect of erythropoietin on anemia induced cognitive dysfunction. May 2003.

**Hare G.** Canadian Anesthesiologists' Society Research Award. \$30,000/ 1 year. Characterization of cerebral gene expression following hemodilutional anemia utilizing Microarray Analysis. 2003-2004.

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

**Jadad AR, Goel V.** Canadian Foundation for Innovation (CFI) and Ontario Innovation Trust (OIT). \$5.6 million. The center for global eHealth innovation (infrastructure support). 2002-2005.

**Jadad AR, Kaegi E, Laidlaw J, Hohenadel J.** Northpine Foundation. \$92,000. Levelling the playing field: Pilot testing the personal coach program. 2002-2003.

**Jadad AR, Kaegi E, Laidlaw J, Hohenadel J.** Canadian Institute of Health Research. \$87,961. Levelling the playing field: Pilot testing the personal coach program.

**Joo DT.** Canadian Anesthesiologists' Society/Abbott Laboratories Career Scientist Award in Anesthesia. \$120,000. The modulation of AMPA receptors on dorsal horn spinal neurons by chronic opiate receptor activation. 2003-2005.

**Joo H.** Edwards Life Sciences \$11,000. Unrestricted educational grant for research into cardiac anesthesia.

**Katz J.** Canadian Institutes of Health Research. \$451,000. Effectiveness of sucrose analgesia in reducing pain responses in infants born to diabetic and non-diabetic mothers: a randomized controlled trial. 2003-2006.

**Kavanagh BP.** Canadian Institutes of Health Research (CIHR). PI. \$260,000. Preclinical Assessment of Therapeutic Hypercapnia. 2001-2004.

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

**Kavanagh BP. (Co-applicant).** Canadian Foundation for Innovation (CFI). \$4,900,000. Critical Care Unit for Research Excellence CCURE (Infrastructure Grant). 2002-2007.

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

**Kavanagh BP.** American Thoracic Society. \$18,000. International Consensus Conference—Challenges in end-of-life care in the ICU.

**Kavanagh BP.** NSERC. (Co-Investigator). \$111,800. Investigation of communication modalities for paediatric patients during transient voicelessness through augmented environments. 2003-2006.

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

**Levinson W, Laupacis A, Eakin J, Jadad AR.** Canadian Institutes of Health Research. \$1 million. An integrated training program in health and social science research to improve the health of marginalized populations. 2003-2009.

**McCartney C.** Physicians' Services Incorporated Foundation. \$45,000. Regional Anesthesia versus General Anesthesia for Ambulatory Upper Limb Surgery, 2002-2003

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

**Mazer D. (Co-Investigator).** Canadian Institutes of Health Research (CIHR). \$22,950. A randomized trial of a lung-open ventilation strategy (LOVS) in acute lung injury. 2000-2006.

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

**Mazer D. (Co-Investigator).** Canadian Institutes of Health Research (CIHR). \$53,087. Blood conservation using antifibrinolytics: A randomized trial in a cardiac surgery population – the BART study. 2002-2005.

**Morgan PJ, Cleave-Hogg D, Devitt JH, Herold-McIlroy J, Law JA, Tarshis J.** Canadian Institutes of Health Research (CIHR). \$47,723. The effects of a simulator educational experience on the incidence and nature of human error during the anesthetic management of routine and critical events in a high-fidelity patient simulator. 2002.

**Morgan PJ, Cleave-Hogg D, Devitt JH, Herold-McIlroy J, Law JA, Tarshis J.** Canadian Institutes of Health Research (CIHR). \$160,571. The effects of a simulator educational experience on the incidence and nature of human error during the anesthetic management of routine and critical events in a high-fidelity patient simulator. 2003.

**Orser B.** Canadian Institutes of Health Research (CIHR). \$128,160. Synaptic and Extrasynaptic GABAA Receptors: Distinct Physiological and Therapeutic Roles.

**Orser B. (Co-Investigator)** Canadian Institutes of Health Research (CIHR). \$124,918. An intervention to structures information sharing and promote patient safety in the operating room. 2002-2004

**Orser B.** (Co-Investigator) Connaught Fund: Cluster Seed Fund. \$150,000. Dynamic nanophysiology of membrane proteins. 2002-2005.

**Tian G-F, Baker AJ.** Ontario Neurotrauma Foundation, National Rick Hansen Neurotrauma Initiative. Mechanisms of traumatic brain injury: excitotoxicity and energy metabolism. \$ 238,200/3 yrs. 2000-2003.

**Wijeyesundera D.** Canadian Heart and Stroke Foundation. \$100,000. N-acetylcysteine in cardiac surgery. 2003-2005.

**Wong J.** Physicians' Services Incorporated Foundation. \$38,000. Tranexamic acid for major spine surgery. 2003

**Zhang H.** Canada Foundation of Innovation (CFI). \$100,000. Molecular mechanisms of neutrophil defensins in lung inflammation and injury. August 2002-May 2003

**Zhang H.** Ontario Thoracic Society Research-in-Aid Grant. \$31,182. Human neutrophil peptide ( $\alpha$ -defensin) and its receptor: an expanding role in our understanding of neutrophil evoked lung injury. July 2002-June 2003

**Zhang H.** Ontario Innovation Trust (OIT). \$100,000. Molecular mechanisms of neutrophil defensins in lung inflammation and injury. August 2002-May 2003.

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

## **NON PEER REVIEWED GRANTS**

**Chung F.** Pharmacia. \$50,000. A multi-centred double blind, placebo controlled parallel group randomized study of a single dose of intravenous parecoxib sodium versus a single dose of IV fentanyl in patients undergoing an ambulatory laparoscopy. 2002-2003.

**Crawford MW.** Abbott Laboratories. \$22,950. Acute opioid tolerance: Does remifentanyl-based anesthesia increase postoperative pain and morphine requirement after pediatric scoliosis surgery?

**Hutchinson J, Bissonnette B, Luginbuehl I, Bohn D, Parshuram C, Barnes M, Sananes R.** The Hospital for Sick Children Foundation - \$ 23,000.00. Hypothermia for cardiac arrest in paediatrics - Pilot Study. June 01 2003

**Jadad AR, Hohenadel J.** Private doner. \$1 million. The virtual clinic: Bridging the high-tech and the high-touch to enhance the patient-health professional relationship. 2002-2005.

**Karkouti K.** Ortho Botech. \$120,000. Co-investigator. Pharmacokinetics of erythropoietin in a human model of cardiopulmonary bypass. 2002-2003.

**Karkouti K.** Abbott Laboratories. \$40,000. Prospective randomized double-blind controlled study comparing the safety of Hextend vs. Pentaspan in the treatment of hypovolemia during major abdominal surgery. 2003-2004.

**Karski J.** Pharmacia. \$48,000. Principal Investigator (site). A clinical evaluation of the safety and efficacy of Paracoxib in CABG patient post median sternotomy. 2002-2003.

**Karski J.** Hemosol Inc. \$130,000. Principal investigator (site). Phase II Multicenter randomized controlled, blind study of the efficacy of Hemolink in CABG patients. 2002-2003.

**Kronberg J,** Pharmacia, Canada. \$ 65,200. A multi-centre placebo-controlled parallel group, randomized study of a single dose of intravenous parecoxib sodium versus a single dose of intravenous fentanyl in patients undergoing an ambulatory laparoscopic gynaecologic procedure. 2002.

**Mazer D.** (Co-Investigator). Bayer Inc. \$7,734. TRAC - A double-blind, multi-centre, randomized placebo controlled study to assess whether thrombate<sup>7</sup> replacement for anticoagulation in heparin resistant patients undergoing cardiopulmonary bypass surgery will require fewer transfusions of fresh frozen plasma compared to placebo. 2001-2004.

**Mazer D, Baker AJ, Tian GF, Hare G.** Bayer Health Care Division. \$189,614/2 yrs. Mechanisms of neuroprotection by albumin following traumatic brain injury. 2002-2004.

**Mazer D.** Hemosol Inc. \$72,400 A Phase 2 randomized, single-blind, controlled clinical trial to evaluate the efficacy and safety of Hemolink™ (o-raffinose cross-linked human hemoglobin) in subjects undergoing primary coronary artery bypass grafting surgery (HLK-213). 2002.

**Mazer D.** Numico Inc. (Non Peer-reviewed). Co-investigator. Improved cardiac function and exercise tolerance in patients undergoing coronary artery bypass surgery who receive a nutritional supplement MyoVive®. 2002.

**Mazer D.** ARDS A Phase II, multicenter, randomized, double-blind, placebo-controlled, parallel-group, dose-ranging evaluation of the safety and efficacy of  $\alpha$ -hANP infusion (Carperitide™ for Injection: SUN 4936) in patients with acute respiratory distress syndrome. \$10,102. 2002-2003.

**McCluskey S.** Ortho Biotech. \$134,000. Pharmacokinetics of recombinant EPO in patients undergoing cardiac surgery. 2003-2004.

**Peng P.** Medtronic Canada, 2002-2003. \$6,470. Database for spinal cord stimulator program

**Tian G-F, Baker AJ.** Ontario Neurotrauma Foundation, National Rick Hansen Neurotrauma Initiative.  
\$238,200/3yrs. Mechanisms of traumatic brain injury: excitotoxicity and energy metabolism. 2000-2003.