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
## Department of Anesthesiology

### ACADEMIC/RESEARCH PRIORITIES

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### DEPARTMENTAL INITIATIVES

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<th>Volatile agents</th>
<th>Inhalation agents</th>
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**的重点**

- Simulation-based education
- Accreditation
## ANAESTHESIA FELLOWS 2002/2003

### The Hospital for Sick Children

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AWARDS AND ACHIEVEMENTS

DEPARTMENTAL AWARDS

The Thomas Donald Hammell Memorial Award in Anaesthesia
For making the greatest contribution to the residency program (as chosen by the other residents)
1994 Basem Naser
1995 Chong Chow
1996 Cameron Guest
1997 Robert Chen
1998 Rassamee Ling
1999 Naseer Baig
2000 Brian Nishiura
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 Wijeysundera
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  
Ist 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 Wijeyesundera  
2003 Claire bombardier Award, Dept. of Health Policy Management and Evaluation. Awarded to the most outstanding graduate student in the MSc. Program in Clinical Epidemiology.
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

Anaesthetists-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:

- 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 pharmacology
- clinical epidemiology/outcomes research
- neurophysiology
- cardiovascular and cardiopulmonary physiology
- pain research
- research in education

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.

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 24th 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 remifentanil-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.Wijeysundera. 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. Remifentanil, 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)


Gagliardi A, Jadad AR. Examination of instruments used to rate quality of health information on the internet: chronicle of a voyage with an unclear destination. BMJ 2002; 324:569-73.


Gardner-Nix JS. Do some patients respond better to a blend of opioids in managing their chronic pain? Canadian J of CME 2002; 14(9):33.


Jackson MF, Joo DT, Al-Mahrouki AA, Orser BA, McDonald JF. Desensitization of \( \alpha \)-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptors facilitates use-dependent inhibition by pentobarbital. Mol. Pharm. 2003; 64: 395-406.


Jadad AR. Evidence-based decision making and asthma in the internet age: the tools of the trade. Allergy 2002; 57 (suppl 74):15-22.

Jadad AR, Rizo CA, Enkin M. I am a good patient, believe it or not! BMJ 2003; 326:1293-5.


Joo HS, Kataoka MT, Chen RJ, Doyle J, Mazer CD. PVC tracheal tubes exert forces and pressures seven to ten times higher than silicone or armoured tracheal tubes—an in vitro study. Can J Anesthesia 2002; 49(9):986-9.


Kavanagh BP. Lung Recruitment in Real Time – learning was never so easy [Editorial]. Am J Respir Crit Care Med 2003; 167:1585-1486.


Luginbuehl IA, Karsli C, Bissonnette B. Cerebrovascular reactivity to carbon dioxide is preserved during hypocapnia in children anesthetized with 1.0 MAC, but not with 1.5 MAC desflurane. Can J Anesth 2003; 50(2):166-171.


Orser BA, Miller DR. New opportunities for anesthesia research in Canada. Can J Anesth 2002; 49(9):895-899


BOOK CHAPTERS


ABSTRACTS (Published in indexed Journals)


Carvalho JCA, Amaro AR, Rosa MCR, Yamaguchi ET. Complementação para cesariana durante analgesia combinada raqui-peridural. Presented at 49 Congresso Brasileiro de Anestesiologia. Rev Bras Anestesiol 2002; 52(Supl. 29):CBA 054A.


Fonseca US, Yamaguchi ET, Cardoso MMSC, Carvalho JCA. Dose-resposta do sufentanil subaracnoideo associado à bupivacaina hiperbárica para analgesia de parto. Presented at 49 Congresso Brasileiro de Anestesiologia. Rev Bras Anestesiol 2002; 52(Supl 29);CBA 054A.


Hare GMT, Mazer CD, Mak W, Hum KM, Kim SY, Barr A, Baker AJ. Anemia causes increased cortical nNOS mRNA levels in rats. Can J Anesthesia 2003; 50:14A.


Karkouti K, McCluskey S, Yeo E, Yau TM, Wijeysundera DN. Efficacy and safety of recombinant factor VIIa (rF-VIIa) for treating refractory blood loss after cardiac surgery: an open-label single-arm clinical trial. ASA. San Francisco, CA, USA. 2003.


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.


Bevan DR


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


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


Bohn D


Bradley JW


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.


**Brown SC**

**Byrick RJ**


**Carvalho J**


**Chan BM**

**Chan V**


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


Chung F


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


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


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


Cooper RM


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


Crawford, MW

Davies S

Djaiani G


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

Fedoroko L.


Fisher J

13th International Hypoxia Symposium. Increased PO\textsubscript{2} gradient not cerebral blood flow improves brain oxygenation at altitude. Banff, AB, February 2003.


Gardner-Nix JS


Goldszmidt E

Halpern S


8th International congress of Cardiothoracic and Vascular Anesthesia in conjunction with the 19th 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.


Hare GMT

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

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


Houston P

Jadad AR


Medical Informatics meeting. Dubai, UAE. October 2002.


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.


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.


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


Kavanagh BP

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


Macarthur AJ


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


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


Mazer CD


McCartney CJL


McCluskey S


McGrath PA


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


McRae K


Morgan PJ


Murphy P

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


Naik VN


Peng P


Tumber P


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


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

**Wong D**

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**

**Zhang H**

XXXIII World Congress of International College of Surgeons. 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

17th 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. II Ciocco, Italy, April 27 – May 2, 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.


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


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


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


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 erythropoientin on anemia induced cognitive dysfunction. May 2003.


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. 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.


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


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


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


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


**NON PEER REVIEWED GRANTS**


**Crawford MW.** Abbott Laboratories. $22,950. Acute opioid tolerance: Does remifentanil-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.


**Mazer D.** (Co-Investigator). Bayer Inc. $7,734. TRAC - A double-blind, multi-centre, randomized placebo controlled study to assess whether thrombate 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.** 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.


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