

DEPARTMENT OF ANESTHESIA
UNIVERSITY OF TORONTO

ANNUAL REPORT
2005 – 2006

<http://www.anesthesia.utoronto.ca>

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Toronto, Ontario M5S 3E2

TABLE OF CONTENTS

Message from the Chair	1
Anesthesia Fellows (2005-2006)	3
Awards and Achievements	4
Department Council	7
Undergraduate Education Committee	8
Postgraduate Education Committee	12
Anesthesia Residents (2005-2006)	14
U of T Fellowship Research Seminar Series	15
The Clinician-Scientist Stream	16
Shields Anesthesia Research Day	18
Continuing Education Committee	21
Research Committee	24
Publications	26
Book Chapters	36
Abstracts	38
Invited Lectures	45
Grants: Peer Reviewed	72
Grants: Non-peer Reviewed	80

MESSAGE FROM THE CHAIR

It has been an honour to serve as the Chair of the Department of Anesthesia for the last three years and to have been a member of the Department of Anesthesia since 2000. Anesthesia is a young specialty, the first general anesthetic was given in Boston in 1842. Academic Departments are much younger. The first in Canada, at McGill was founded in 1945 under the first chair – Dr. Wesley Bourne. Toronto followed with the appointment of Dr. Harry Shields in 1952.

The last decade has seen major shifts in the emphasis of academic anesthesia which has emerged from a specialty-specific, introspective organization interested only in minor modifications to the technical and pharmaceutical role of the specialty to one influencing the whole of medicine with regard to Education, Research and Clinical Care. Academic Departments of Anesthesia are flourishing in Canada and nowhere is this more evident than in Toronto.

In **Education**, a revolution has taken place – Simulation. Anesthesia departments incorporate simulation into their programs. Anesthesiologists recognized the potential of simulation earlier than most other specialists not only for technical procedures such as tracheal intubation and vascular access but also in improving patient safety. Exposure to Crisis Management (led by Pamela Morgan, Hugh Devitt, Jordan Tarshis, Robert Byrick and colleagues at Sunnybrook and Viren Naik at St. Mike's) in the simulated environment demonstrated the importance of personal interactions in clinical situations. The OR is analogous to the airplane cockpit and similar behaviour is necessary to avoid and manage unexpected events. Anesthesiologists have brought a new level of understanding to team care with a greater emphasis on Patient Safety (Beverly Orser). All faculties of medicine require access to a sophisticated simulation environment. Anesthesiologists are well placed to lead the field and exert a presence across all medical practice. Patients, quite naturally, are reluctant guinea-pigs for trainee medical personnel. Anesthesiologists must take the lead in the revolution.

In **Research**, pharmacological research is now more likely to be directed towards the identification of abnormal responders to existing compounds in collaboration with genetic investigators. Indeed, anesthesia was pivotal to the development of pharmacogenetics when Kalow, at Toronto, identified abnormal cholinesterase enzymes in the metabolism of succinylcholine and in the recognition and management of malignant hyperthermia. Abnormal reactions to anesthetic agents will continue to be investigated for possible genetic linkage. On a wider scale, genetic variants and their influence on intraoperative bleeding and thrombosis (continuing the work of David Mazer, Greg Hare and Keyvan Karkouti and colleagues) may be important components of pre-operative evaluation by the anesthesiologist.

Much of what we do in the peri-operative period is in treating and preventing organ dysfunction. Of particular importance have been our attempts to improve cardiac outcomes by preoperative -adrenergic blockade, calcium channel blockers, epidural anesthesia, etc. We know that the conduct of anesthesia influences patient outcome well after the end of surgery. Anesthesiologists, such as Scott Beattie and Duminda Wijeyesundera, are involved in some of the most comprehensive outcome studies but these are difficult, time-consuming and require epidemiologists both within and outside anesthesia departments. Pre-operative preparation and risk evaluation have been and will remain the preserve of the anesthesiologist if we want it!

Changes in **Clinical Care** involve developments in Regional Anesthesia as led by Vincent Chan, Anahi Perlas, Obstetric Anesthesia (Stephen Halpern, Pamela Angle, Jose Carvalho), Chronic Pain (Joel Katz, Lucia Gagliese), Critical Care and Trauma (Andrew Baker, Brian Kavanagh) and Equipment Development (Joe Fisher). Equally important is the development of an alternative model of providing Anesthesia Care. This will likely be based on the Anesthesia Care Team in which anesthesiologists will direct a team of health professionals to assist them in the pre-, intra- and post-operative areas. The involvement of Toronto Anesthesia (Claire Middleton) in the new Anesthesia Assistants model at the Michener Institute will be the way to meet anesthesia shortages in the future.

Toronto has never been more influential in pointing the direction for Anesthesia. The department is endowed with some extraordinary young men and women (some of whom are mentioned above) who will make their mark in medicine.

Noteworthy events of 2005-2006

Undoubtedly, the premature death of John Bradley, Director of the Wightman Berris Academy, deprives us of a very gifted teacher who had won local regional and national recognition for his dedication to students. He will be missed not only as the best recruiter that the specialty ever had!

Robert Byrick appointed Associate Dean, Faculty of Medicine

Joe Fisher elected “Investigator of the Year at UHN”

Alex Jadad elected “Best of the Best” by the Top 40 under 40 in Canadian Health Care

Grants – PI

Canadian Anesthesia Research Foundation: D. Wijeyesundera, C. McCartney

Canadian Blood Services: K. Karkouti

CAS Career Scientist Award: G. Hare

CIHR: S. Beattie, F. Briet, L. Gagliese, K. Karkouti, D. Wijeyesundera, H. Zhang

Heart & Stroke Foundation Ontario: G. Djaiani

Ischemia Research Foundation: D. Mazer

Ontario Neurotrauma Foundation: A. Baker

Ontario Thoracic Society: H. Zhang

PSI: A. Baker, F. Chung, G. Hare, H. Joo, C. McCartney, P. Morgan, V. Naik

Premier Research Award: H. Zhang

Society of Cardiovascular Anesthesiologists: F. Briet

David R. Bevan
Professor and Chair
August, 2006

ANESTHESIA FELLOWS 2005/2006**The Hospital for Sick Children**

Christiansen, Elaine	AUSTRIA	McDonnell, Conor	IRELAND
Engelhardt, Thomas	UNITED KINGDOM	O'Rourke, James	IRELAND
Espinal-Montoya, Victor	COLOMBIA	Ray, Neill	UNITED STATES
John, Justin	CANADA	Prinzhausen, Heike	UNITED KINGDOM
Khemka, Rakhi	INDIA	Walsh, Kenneth	IRELAND
Lau, Katherine	UNITED KINGDOM	Venclovas, Rasa	AUSTRIA
Lopez, Alejandra	COLOMBIA	Wong, Gail	AUSTRIA
McCheyne, Alan	UNITED KINGDOM		

Mount Sinai Hospital

Arzola, Cristian	CHILE	Moore, Michael	IRELAND
Dhumne, Sudhir	INDIA	Rofaeel, Ayman	EGYPT
Dochev, Atanas	BULGARIA	Siddiqui, Mughina	PAKISTAN
Habbi, Mehri	IRAN	Siddiqui, Naveed	PAKISTAN
Ibrahim, Hisham	EGYPT	Tanaka, Motoshi	JAPAN
Kasodekar, Shilpa	INDIA	Whitty, Robert	IRELAND
Li, Victor	CHINA	Yacoub, Ashraf	EGYPT

St. Michael's Hospital

Alam, Syed	CANADA	Novoshinov, Sergey	ISRAEL
Hamed, Hala	EGYPT	Rigamonti, Andrea	ITALY
McCheyne, Joanne	UNITED KINGDOM	Savoldelli, Georges	SWITZERLAND
McCloone, Mary	UNITED KINGDOM	Schupp, Michael	GERMANY

Sunnybrook and Women's College Health Sciences Centre

Angeles, Maria	PHILIPPINES	Kummer, Carmen	BRAZIL
Goldchtaub, Valerie	ISRAEL	Kaptoulski, Boris	ISRAEL
Gofeld, Michael	ISRAEL	Lim, Teddy	CANADA

UHN/Toronto General Hospital

Barbosa, Ruben	BRAZIL	Roscoe, Andrew	UNITED KINGDOM
Dattilo, Kathleen	CANADA	Schupp, Michael	UNITED KINGDOM
Dochev, Atanas	CANADA	Snyman, Adam	SOUTH AFRICA
Felton, Marie-Louise	FRANCE	Srinivas, Coimbatore	UNITED KINGDOM
Hirasaki, Yuji	JAPAN	Sun, Ruidong	UNITED STATES
MacDougall, Peter	CANADA	Syed, Summer	CANADA
Meineri, Massimiliano	ITALY	Vuckovic, Dejan	UNITED STATES
Minkovich, Leonid	ISRAEL	Wacker, Johannes	SWITZERLAND
Mukherjee, Chirojit	GERMANY	Wasowicz, Marcin	POLAND
O'Farrell, Rachel	IRELAND	Yu, Chunhua	CHINA
Pandurengan, Amaran	UNITED KINGDOM	Zhang, Huan	CHINA

UHN/ Toronto Western Hospital

Assmann, Nicole	UNITED KINGDOM	See, Jee Jian	SINGAPORE
Hooshangi, Hedieh	IRAN	Shah, Bhadrash	INDIA
Lermitte, Jeremy	UNITED KINGDOM	Shnaider, Iliia	ISRAEL
Li, Carina	HONG KONG	Soares, Luiz	BRAZIL
Moore, Michael	IRELAND	Tangwiwat, Suwimon	THAILAND
Morales, Eduardo	COLOMBIA	Wong, Daniel	AUSTRALIA

AWARDS AND ACHIEVEMENTS

DEPARTMENTAL AWARDS

The Thomas Donald Hammell Memorial Award in Anesthesia

For making the greatest contribution to the residency program (as chosen by the other residents).

1994	Basem Naser
1995	Chong Chow
1996	Cameron Guest
1997	Robert Chen
1998	Rassamee Ling
1999	Naseer Baig
2000	Brian Nishimura
2001	Elaine Ng
2002	Viren Naik
2003	Trisha Mark
2004	Shawn Mawhinney
2005	Susan French
2006	Randy Yue

The Dr. John Desmond Award

For excellence in undergraduate teaching.

1994	Christina Benedict
1995	Pam Morgan
1996	Isabella Devito
1997	Irene McGhee
1998	Ron Crago
1999	Susan Bertram
2000	John Bradley
2001	Carmencita Castro
2002	Hal Braden
2003	Beverly Morningstar
2004	Dragan Djordjevic
2005	Jordan Tarshis
2006	Gordon Urbach

The Dr. Gerald Edelist Award

For excellence in postgraduate teaching.

1995	Alan Laws (posthumous)
1996	Chiddam Ananthanarayan
1997	Patricia Houston
1998	Irene McGhee
1999	Robert Creighton
2000	Joseph Kay
2001	Ronald Crago
2002	Marianne Graham
2003	Mark Levine
2004	Mary Ellen Cooke
2005	David J. McKnight
2006	Patricia Murphy

The Hynek Rothbart Award

For presenting the best paper at the Shields Research Day.

1994	Karen McRae
1995	Brendan O'Hare
1996	Robert Chen
1997	Daisy Ip
1998	Frank Reinders
1999	John Laffey
2000	John Emery
2001	Viren Naik
2002	Anahi Perlas
2003	Not awarded
2004	Eric-You Ten
2005	Denis Rohan
2006	Peter Darby

Dr. Alan K. Laws Clinician Scientist Fellowship

To provide salary support for a resident who undertakes graduate level training in a related field.

2002	Duminda Wijeyesundera
2003	Jens Tan
2004	Antoine Pronovost/Timothy Welke
2005	Dov Weiss

Dr. Alan K. Laws Travel Award

Awarded annually to provide support and encouragement for a senior resident in the Department of Anesthesia to further their academic interests by traveling to a foreign site to experience anesthesia as practiced elsewhere.

1996	Philip Peng
1997	Stephane Lambert
1998	Hwan Joo
1999	Rosaleen Chun
2000	Harald Bettger
2001	Carol Loffelmann
2002	Teddy Lim
2003	Trisha Mark
2004	Richard Brull
2005	Alan Chaput

Dr. Alan W. Conn Graduate Award

Awarded to a post-graduate trainee registered in a Master's or Ph.D. degree program.

2005	Anton Marinov
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Dr. Evelyn Bateman Award

For excellence in anesthesia at the undergraduate level.

1994	Desmond Lam
1995	Laura Hopkins
1996	Carol Loffelmann
1997	Ursula Jurt
1998	Shawn Mawhinney
1999	Jens Looser
2000	Gordon Buduhan
2001	Renee Allard
2002	Julie Lajoie
2003	Hance Clarke
2004	Nicholas Lo
2005	Kevin Lai
2006	Ben-Ari Fried/Cara Polson

FACULTY TEACHING AWARDS

Lisa Bahrey Wightman-Berris Academy Undergraduate Teaching Award

HOSPITAL TEACHING AWARDS

Ken Lin St. Michael's Dr.A.J. Dunn Award for Undergraduate Education

Brian Pollard and
Jeffrey Wassermann St. Michael's Dr.A.J. Dunn Award for Postgraduate Education

NATIONAL AND INTERNATIONAL AWARDS

Robert Byrick Canadian Anesthesiologist's Gold Medal 2006

Vincent Chan Editorial Board, Anesthesia & Analgesia, April 2006
Treasurer, American Society of Regional Anesthesia and Pain Medicine

Greg Hare Keenan Collaborative Research Award, May 2005
A.C. Bryan Award for best paper by a Graduate Student

Brian Kavanagh Editorial Board, American Journal of Respiratory and Critical Care Medicine
Editorial Board, Intensive Care Medicine

Colin McCartney Editorial Review Board Journal of Opioid Management

Beverley Orser Canadian Anesthesiologists' Society Research Recognition Award 2006

Philip Peng Treasurer of Canadian Neuromodulation Society

Wei-Yang Lu NARSAD Essel Investigator 2005

STUDENT AWARDS AND ACHIEVEMENTS

Robert Bonin NSERC, \$17,000 (Supervisor: Dr. Beverley Orser)

Peter Darby Recipient of the Hynek Rothbart Award for best paper presented by a resident.
Effect of cardiopulmonary bypass on rat renal gene expression and blood flow. May 5, 2006.

Joseph Fisher UHN Inventor of the Year Award 2005. University Health Network, November 2005.

Anya McLaren Recipient of the A.C. Bryan Award for best paper by a graduate student. *Increased HIF-1 α and VEGF expression in rat cerebral cortex with acute hemodilution.* May 5, 2006.

Peter Slinger Elected Fellow, College of Anaesthetists, Royal College of Surgeons of Ireland, 2006.
Recipient of the Best Poster Award, Shields Research Day. *nNOS contributes to protective mechanisms in rodents during acute hemodilutional anemia.* May 5, 2006.

DEPARTMENT COUNCIL

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

- Advise the Chair on departmental policies;
- Participate in long-range academic planning;
- Review issues of current concern to the department and the practice of anesthesia;
- Receive and implement reports from the committees on education and research.

Chair:

Dr. David Bevan

Anesthetists-in-Chief:

Dr. David Bevan
Dr. Gil Faclier

UHN/Mount Sinai Hospital
Sunnybrook and Women's College
Health Sciences Centre
St. Michael's Hospital
Toronto East General Hospital
Hospital for Sick Children

Dr. Patricia Houston
Dr. Emily Mosher
Dr. Lawrence Roy

Deputy Chiefs:

Dr. Sue Belo
Dr. Gordon Fox
Dr. Jean Kronberg
Dr. Jacob Lai
Dr. Gerald O'Leary
Dr. Doreen Yee

Orthopaedic & Arthritic Hospital
UHN/Mount Sinai Hospital
Women's College Site
Toronto Western Hospital
UHN/Toronto General Hospital
Sunnybrook and Women's College
Health Sciences Centre

Committee Chairs:

Dr. Gordon Fox
Dr. Patricia Houston
Dr. Patricia Houston
Dr. Patricia Houston
Dr. Mark Levine
Dr. David Mazer
Dr. Pamela Morgan
Dr. Peter Slinger

Promotions Committee
Awards
Gender Issues Committee
Education Committee
Postgraduate Education
Research
Undergraduate Education
Continuing Education

UNDERGRADUATE EDUCATION COMMITTEE

UGE Chair:	Dr. Pamela Morgan	Sunnybrook & Women's College Health Sciences Centre
Preclerkship Coordinator:	Dr. Isabella Devito	UHN/Mount Sinai Hospital
Clerkship Course Director:	Dr. Pamela Morgan	Sunnybrook and Women's College HSC
Committee Members:		
	Dr. L. Bahrey	UHN/Toronto General Hospital
	Dr. D. Bevan	Chair, Department of Anesthesia
	Dr. R. Brull	UHN/Toronto Western Hospital
	Dr. M. Choi	Sunnybrook & Women's College HSC
	Dr. I. Devito	UHN/Mount Sinai Hospital
	Dr. D. Djordjevic	Sunnybrook and Women's (Women's College Site)
	Mr. Ben-Ari Fried	Student Representative-Year 4
	Dr. P. Houston	Vice-Chair, Education, Department of Anesthesia
	Dr. Dr G. Kanellakos	UHN/Toronto General Hospital
	Dr. Ken Lin	St. Michael's Hospital
	Dr. P. Morgan	Sunnybrook & Women's College HSC
	Mr. I. Randall	Student Representative-Year 3
	Dr. J. Robertson	Hospital for Sick Children, Electives Committee Representative
	Dr. A. Sarmah	Sunnybrook & Women's College HSC
	Dr. P. Tumber	UHN/Toronto Western Hospital
	Dr. M. van der Vyver	Sunnybrook & Women's (Women's College Site)

The Undergraduate Education Committee of the Department of Anesthesia is composed of the Chair, the Clerkship Course Director, representatives from each of the teaching hospitals, and a third and fourth year student representative. The Chair of the Department of Anesthesia and the Vice-Chair, Education are also committee members. The full committee meets monthly and manages all aspects of undergraduate teaching involving the University Department of Anesthesia.

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

Pre-Clerkship

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

Pre-Clerkship Lectures

Dr. S. Belo
 Dr. R. Chen
 Dr. V. Naik
 Dr. J. Wasserman

ASCM I Course Director

Dr. J. Bradley UHN/Toronto General Hospital

ASCM I Tutors

Dr. L. Bahrey UHN/Toronto General Hospital
Dr. V. Hughes St. Michael's Hospital
Dr. V. Naik St. Michael's Hospital
Dr. G. Salvodelli St. Michael's Hospital

Determinants of Community Health (DOCH) Year 2: Academy Course Supervisors

Dr. J. Bradley UHN/Toronto General Hospital

Problem Based Learning Tutors, Year 1: Metabolism and Nutrition

Dr. M. van der Vyver Sunnybrook & Women's College (Women's College Campus)

Problem Based Learning Tutors, Year 2: Structure and Function, Foundations of Medical Practice

Dr. S. Abrahamson St. Michael's Hospital
Dr. R. Barlow Hospital for Sick Children
Dr. M. Chochinov Sunnybrook & Women's College (Sunnybrook Campus)
Dr. K. Cybulski Hospital for Sick Children
Dr. I. Devito UHN/Mount Sinai Hospital
Dr. A. Lee UHN/Toronto General Hospital
Dr. K. Lin St. Michael's Hospital
Dr. L. Roy Hospital for Sick Children
Dr. S. Wong Sunnybrook & Women's College (Sunnybrook Campus)

Foundations of Medical Practice Seminar Leaders, Year 2

Dr. R. Chen St. Michael's Hospital
Dr. M. Chochinov Sunnybrook & Women's College (Sunnybrook Campus)
Dr. R. Crago UHN/Toronto Western Hospital
Dr. S. Davies UHN/Mount Sinai Hospital
Dr. M. Graham Sunnybrook & Women's College (Sunnybrook Campus)
Dr. K. Lin St. Michael's Hospital
Dr. W. Middleton UHN/Toronto Western Hospital
Dr. A. Morgan Sunnybrook & Women's College (Women's College Campus)
Dr. V. Naik St. Michael's Hospital
Dr. J. Wassermann St. Michael's Hospital
Dr. E. You-Ten UHN/Mount Sinai Hospital

Bruce Tovee Lecture Series, Year 4

Dr. I. Devito: 1. "Preoperative assessment of the Surgical Patient"
2. "Resuscitation"
Dr. L. Eisen "Pain Management"

Wightman-Berris Academy Director

Dr. J. Bradley UHN/Toronto General Hospital

The 9th Annual Anesthesia Information Evening for medical students was held in November 2005 under the leadership of Dr. I. Devito with the help of our third year medical student representative, Ian Randall. There were representatives from faculty involved in research, intensive care, regional anesthesia, pain management, and education. Representatives from the post-graduate years were present including those involved in research programs. This was a very successful evening - again!

Clerkship

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

Simulator Education Day

During the academic year, all final year medical students participated in the Simulator Educational Day at the Canadian Simulation Centre for Human Performance and Crisis Management Training at Sunnybrook & Women's College Health Sciences Centre. The focus this year was on procedural skills training in response to a needs assessment. Students do not feel that they are receiving adequate procedural skills training and therefore we purchased 3 part-task simulators and set up a program with 5 stations. The stations included simulators to allow: 1) intravenous catheter insertion 2) LMA insertion 3) bag and mask ventilation, endotracheal intubation 4) monitoring including pulse oximetry and capnography and 5) high-fidelity patient scenario. All stations had associated learning objectives. Facilitators were present to assist students in achievement of the learning objectives.

In addition, for the first time this year, all PGY4 and 5 residents facilitated the simulator sessions. The focus for both the undergraduates and postgraduate trainees, was the achievement of CanMed goals for medical expert, communicator, and scholar.

Electives

Many first and second year University of Toronto medical students have arranged non-credited elective time with specific staff. Pre-clerkship medical students also arrange summer elective experiences in our departments, and many are involved in summer research projects.

CLERKSHIP SEMINAR LEADERS

Dr. L. Bahrey	Dr. V. Hughes	Dr. B. Pollard
Dr. M. Balki	Dr. K. Hussain	Dr. D. Riegert
Dr. H. Chan	Dr. D. Irwin	Dr. A. Sarmah
Dr. V. Chan	Dr. M. Jariani	Dr. Y. Suntheralingam
Dr. M. Chochinov	Dr. G. Kanellakos	Dr. J. Tarshis
Dr. S. Davies	Dr. S. Kasodekar	Dr. J. Teresi
Dr. I. Devito	Dr. J. Kay	Dr. P. Tumber
Dr. D. Djordjevic	Dr. R. Ko	Dr. M. van der Vyver
Dr. H. Fischer	Dr. A. Lee	Dr. J. Wasserman
Dr. Z. Friedman	Dr. M. Levene	Dr. Z. Friedman
Dr. S. Halpern	Dr. K. Lin	Dr. M. Srebnjak
Dr. A. Ho	Dr. A. Morgan	Dr. E. You-Ten
Dr. P. Houston	Dr. V. Naik	

CLERKSHIP SIMULATOR TEACHING

FACULTY

Dr. M. Choi	Dr. G. Kanellakos	Dr. J. Robertson
Dr. I. Devito	Dr. K. Lin	Dr. A. Sarmah
Dr. D. Djordjevic	Dr. P. Morgan	Dr. P. Tumber

CLERKSHIP SEMINAR LEADERS

Dr. L. Bahrey
Dr. M. Balki
Dr. H. Chan
Dr. V. Chan
Dr. M. Chochinov
Dr. S. Davies
Dr. I. Devito
Dr. D. Djordjevic
Dr. H. Fischer
Dr. Z. Friedman
Dr. S. Halpern
Dr. A. Ho
Dr. P. Houston

Dr. V. Hughes
Dr. K. Hussain
Dr. D. Irwin
Dr. M. Jariani
Dr. G. Kanellakos
Dr. S. Kasodekar
Dr. J. Kay
Dr. R. Ko
Dr. A. Lee
Dr. M. Levene
Dr. K. Lin
Dr. A. Morgan
Dr. V. Naik

Dr. B. Pollard
Dr. D. Riegert
Dr. A. Sarmah
Dr. Y. Suntheralingam
Dr. J. Tarshis
Dr. J. Teresi
Dr. P. Tumber
Dr. M. van der Vyver
Dr. J. Wasserman
Dr. Z. Friedman
Dr. M. Srebnjak
Dr. E. You-Ten

CLERKSHIP SIMULATOR TEACHING

FACULTY

Dr. M. Choi
Dr. I. Devito
Dr. D. Djordjevic

Dr. G. Kanellakos
Dr. K. Lin
Dr. P. Morgan

Dr. J. Robertson
Dr. A. Sarmah
Dr. P. Tumber

RESIDENTS

PGY4

Dr. Ali Abbass
Dr. Nasser Al-Kemyani
Dr. Rashad Alquaim
Dr. Michael Bloom
Dr. David Chang
Dr. Meredith Ford
Dr. Jonathan Kong
Dr. Rohit Kumar
Dr. Hoi Kwan Lee
Dr. Paul McHardy
Dr. Diana Tamir
Dr. Anna Toptchieva
Dr. Timothy Welke

PGY5

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

POSTGRADUATE EDUCATION COMMITTEE**Program Director and PGEC Chair:** Dr. Mark Levine**Program Coordinators:**

Dr. William Middleton	UHN/Toronto Western Hospital
Dr. Stephen Halpern	Sunnybrook & Women's (Women's College Site)
Dr. Howard Fischer	UHN/Mount Sinai Hospital
Dr. Henderson Lee	Toronto East General Hospital
Dr. Elaine Ng	Hospital for Sick Children
Dr. Irene McGhee	Sunnybrook & Women's (Sunnybrook Site)
Dr. Patricia Murphy	UHN/Toronto General Hospital
Dr. Jeffrey Wassermann	St. Michael's Hospital

Department Chair: Dr. David Bevan**Curriculum & Exams, Chair Education Committee:** Dr. Patricia Houston**Anesthesia Simulator:** Dr. Viren Naik**Education Committee UHN:** Dr. Isabella Devito**Resident Counselors:** Dr. Beverly Morningstar
Dr. Daniel Riegert**Residents:**

PG1	Dr. John Hanlon
PG2	Dr. Katherine Ryans
PG3	Dr. Hance Clarke
PG4	Dr. Dr. Tim Welke
PG5	Dr. Abdul Al-Atassi

Research Committee Chair: Dr. David Mazer

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

The department underwent a successful internal review in April 2006. Strengths of the program were noted to be the:

- Extensive didactic program and the protected time given to residents to attend;
- Large, enthusiastic group of expert teachers;
- Large volume and variety of teaching cases;
- Enthusiastic resident cadre.

The reviewers recognized that there was an increase in awareness and interest in research amongst junior residents but participation remains inadequate.

In October 2005, the Annual Research Day for junior residents was held to introduce the PG 1 and PG 2 residents to some of the prominent researchers in the department and to the scope of research carried out in the department. The presenters highlighted all aspects of a research career in anesthesia. The research day elevated the profile of research within the department and resulted in a greater interest in research amongst the junior residents.

In 2005-2006, two candidates were evaluated through the Assessment Program for International Medical Graduates (APIMG). Both of these candidates were found to be ready for immediate practice. Both passed the Royal College examinations in June 2006 and have entered practice in under-serviced areas in Ontario.

In the annual CaRMS Match, we received 88 applications. Two of the 15 available positions were assigned to the Clinician Investigator Program (CIP) Stream. These positions were not filled but we were able to fill all 15 positions in the regular program with good applicants some of whom had applied to the CIP stream. We also enrolled four Ontario International Medical Graduate Program residents – three at a PG 1 level and one at a PG 2 level.

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

The annual Shields Anesthesia Research Day was held on Friday, May 5, 2006 at the Metro Convention Centre. The Shields Lecture, “*The Perfection of Man: Advances in Science, Medicine and Technology*” was delivered by Dr. Peter G. Moore from the University of California, Davis.

The following awards were presented at the 2006 Shields Day:

- The R. J. Byrick Award for best presentation: Dr. Francesco Grasso for his presentation: *Negative pressure ventilation – Better oxygenation and less lung injury.*
- The Hynek Rothbart Award for the best resident paper was awarded to Dr. Peter Darby for his presentation: *Effect of cardiopulmonary bypass on rat renal gene expression and blood flow.*
- Best Poster Award: Albert Tsui (Masters student): *nNOs contributes to protective role in rodents during acute hemodilutional anemia.*
- The A.C. Bryan Award for best non-MD presentation: Anya McLaren (Masters student): *Increased HIF-1 α and VEGF expression in the rat cerebral cortex with acute hemodilution.*
- The Thomas Donald Hammell Award: Dr. Randy Yue
- The Dr. John Desmond Award: Dr. Jordan Tarshis
- The Dr. Gerald Edelist Award: Dr. David McKnight

In 2006, all the residents from our program were successful at the Royal College oral examinations. Congratulations to these residents who are now certified as specialists in anesthesia.

ANESTHESIA RESIDENTS 2005-2006

PGY1	Ararat, Tim D'Costa, Abelina Hayward, Diana Kirkham, Kyle Seib, Rachael Weekes, Darlene	Caputo, Karen Delbridge, Catherine Ip, Terence Mehta, Bobby Shastri, Uma Yaseen, Mohammad	Chuang, Monica Fried, Ben Ari Kim, Han Meyer, Rachel Trang, Amy
PGY2	Ahn, Richard Chang, Alvin Fourie, Ockert Lo, Nicholas Simmons, Collan	Au-Yeung, Elizabeth Coutinho, Christopher Fuger, Jason Riazi, Shiela Steward, Andrew	Borden, Andrew Donnelly, Thomas Joshi, Mital Ryans, Katharine
PGY3	Al Ali, Raed Brunton, Jennifer Darby, Peter Li, Alyssa Marinov, Anton Simms, Kathryn	Al Sayegh, Yasser Clarke, Hance Hrdina, Josef Ko, Samuel Marwaha, Jasvir Weiss, Dov	Bernstein, Steven Darani, Rosemin Kim, Catherine Ligori, Tania Samuel, Daniella
PGY4	Abbass, Ali Akbar Alqasim, Rashad Ford, Meredith Kumar, Rohit Tamir, Diana	Abbass, Ali Asghar Bloom, Michael Grossi, Danny Lee, Hoi Kwan Welke, Timothy	Al-Kemyani, Nasser Chang, David Kong, Jonathan McHardy, Paul
PGY5	Al Atassi, Abdulaleem Chatterson, Kelly Heier, Krista Pronovost, Antoine Tan, Jens Yue, Randy	Bachler, Tony Gislason, Rachel Kealey, Alayne Rucker, Joshua Tibbet, Juliana	Chaput, Alan Hakim, Sania Malik, Nariman Salman, Aliya Yudin, Mark
FP Anesthesia	Hussein, Mohammed	Ladak, Yasmin	Pietucha, Shamek

UNIVERSITY OF TORONTO FELLOWSHIP RESEARCH SEMINAR SERIES

The Research Committee places a high priority on research education in the University of Toronto fellowship training program. To this end, a series of graduate level seminars on statistics, research design and research related computer skills were organized. The Research Committee is particularly grateful to the following individuals for teaching the following subjects.

Date	Topic	Teacher
November 9, 2005	Computer Literature Search 1	Ms. E. Uleryk
November 16, 2005	Computer Literature Search 2	Ms. E. Uleryk
November 23, 2005	Bibliographic Software Management Systems	Ms. T. Adams-Webber
November 30, 2005	Critical Appraisal	Dr. Stephen Halpern
December 7, 2005	Databases, Handling data	Dr. Guy Petroz
December 14, 2005	Issues in Informed Consent	Dr. David McKnight
January 11, 2006	Randomized Clinical Trials, Hypothesis Testing	Dr. Patricia McGrath
January 18, 2006	Systematic Reviews	Dr. Patricia McGrath
January 25, 2006	Statistics 1: Measurement scales, Types of Data	Dr. Guy Petroz
February 1, 2006	Statistics 2: Tests for Parametric data: two groups	Dr. Mark Crawford
February 8, 2006	Statistics 3: Sample Size and Power Analysis	Dr. Mark Crawford
February 15, 2006	Statistics 4: Confidence Intervals	Dr. Mark Crawford
February 22, 2006	Statistics 5: Tests for Nominal Data	Dr. Mark Crawford
March 1, 2006	Statistics 6: ANOVA 1	Dr. Hossam El-Beheiry
March 8, 2006	Statistics 7: ANOVA 2	Dr. Hossam El-Beheiry
March 22, 2006	Statistics 8: Linear Regression, Correlation	Dr. Hossam El-Beheiry
March 29, 2006	Statistics 9: Logistic regression, Multivariate Analysis	Dr. Hossam El-Beheiry
April 5, 2006	Statistics 10: Tests for Ordinal Data	Dr. Mark Crawford
April 12, 2006	Statistics 11: Statistical Software	Dr. Guy Petroz
April 19, 2006	Slide Making (Powerpoint)	Dr. Annette Vegas
April 26, 2006	Authorship	Dr. Bruno Bissonnette
May 3, 2006	Pitfalls in Writing Scientific Manuscripts	Dr. David Bevan
May 10, 2006	How to get your Paper Published	Dr. Frances Chung
May 17, 2006	Relationships with Pharmaceutical Companies	Dr. Robert Byrick
May 24, 2006	Scientific Misconduct	Dr. David McKnight
May 31, 2006	Writing Successful Research Proposals	Dr. Beverley Orser
June 7, 2006	Setting up a Research Laboratory	Dr. Daisy Joo

THE CLINICIAN-SCIENTIST STREAM

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

Goals

- Provide a small group of residents with fundamental training in research methodology;
- Foster critical thinking in a research environment of the highest quality;
- Prepare anesthesia trainees for careers as independent investigators in academic departments;
- Provide an opportunity for residents to contribute to the expansion of the fundamental understanding of anesthesia; and,
- Attain the above objectives in the context of excellent clinical training.

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

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

Research Programs

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

- Molecular basis of anesthesia;
- Clinical pharmacology;
- Clinical epidemiology/outcomes research;
- Neurophysiology;
- Cardiovascular and cardiopulmonary physiology;
- Pain research; and,
- Research in education.

Application to the Clinician-Scientist Stream

Residents in the anesthesia program who wish to prepare for an academic research career are invited to apply for the Clinician-Scientist stream through the office of the Program Director. Each year funding is available for a maximum of two residents to participate in the Clinician-Scientist stream through the Alan K. Laws Clinician Scientist Fellowship.

Dr. Alan K. Laws Clinician-Scientist Fellowship Award

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

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

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

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

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

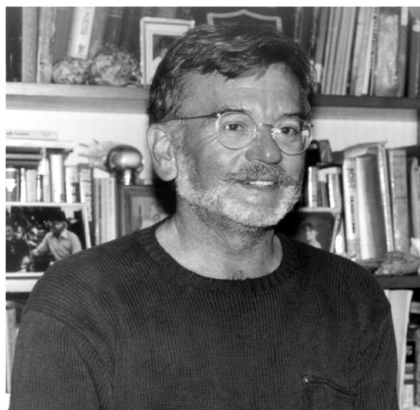
After completing the fellowship, the recipient will present his/her work to members of the Department.

Dr. Alan Laws was born in Warwick, Australia and graduated as the gold medalist from the University of Queensland in 1961.

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

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

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



Dr. Alan Laws

SHIELDS ANESTHESIA RESEARCH DAY

The 27th Annual Shields Research Day was held at the Metro Convention Centre on May 5, 2006.

Shields Lecture

Peter G. Moore

Title: The Perfection of Man: Advances in Science, Medicine and Technology

Dr. Moore has served as Chair of the Department of Anesthesiology & Pain Medicine since 1996. He is a Fellow of the Royal Australian College of Surgeons (1992) and a Fellow of the Australian and New Zealand College of Anesthetists (1994). He is the Medical Director of the Center for Virtual Care, University of California, Davis, Health System (UCDHS).

Interests and Activities

Clinical: Critical care medicine with a special interest in trauma anesthesia/critical care; cardiothoracic anesthesia with a special interest in lung transplant anesthesia; pediatric anesthesia.

Educational: Educational technology and medical informatics; application of computer-based simulation for problem-solving learning.

Research: Regulation of coronary blood flow; myocardial function during ischemia and reperfusion; perioperative management of the trauma and high acuity patient.

Residents' Session

Meredith Ford, Pamela Morgan (SWCHSC)

R1 Predictors of performance in Advanced Cardiac Life Support (ACLS) simulations

Timothy M. Welke, Viren N. Naik (SMH)

R2 Multimedia instruction for teaching crisis resource management

Diana Tamir, Anahi F. Perlas (UHN-TWH)

R3 A randomized-controlled, double-blind trial to determine the impact of ultrasound guidance on the success rate of popliteal fossa blocks

Hance Clarke, Joseph Kay (SWCHSC)

R4 The use of gabapentin for acute pain in total hip and total knee arthroplasty patients

Peter Darby, David Mazer (SMH)

R5 Effect of cardiopulmonary bypass on rat renal gene expression and blood flow

Fellows' Session

Francesco A. Grasso, Brian P. Kavanagh (HSC)

M1 Negative pressure ventilation – Better oxygenation and less lung injury

Mauro Arrica, Mark W. Crawford (HSC)

M2 Extent and localization of changes in upper airway size and configuration with varying configurations of Sevoflurane in children

Andrew Roscoe, Peter Slinger (SMH)

M3 Pressures exerted by endobronchial devices: In-vitro model

Deven Chandra, Viren N. Naik (SMH)

M4 Management of simulated oxygen supply failure: Is there a gap in curriculum?

Alejandra Lopez, Jason Hayes (HSC)

M5 The minimum effective dose of remifentanyl when co-administered with propofol in children: A dose-finding study

Cristian Arzola, Jose Carvalho (UHN-MSH)

A1 The transverse approach of lumbar spine ultrasound provides reliable landmarks for labour epidurals

Robert. J. Whitty, Jose Carvalho (UHN-MSH)

A2 Intrathecal bupivacaine for labour analgesia: A dose-finding study

Kasodekar Shilpa Vaibhav, Jose Carvalho (UHN-MSH)

A3 Patient-controlled analgesia with background remifentanyl infusion for labour pain

Johannes Wacker, Scott Beattie (UHN-TGH)

A4 Withdrawal of beta blockers and the risks of perioperative MI

Anya McLaren, Gregory Hare (SMH)

A5 increased HIF-1 α and VEGF expression in the rat cerebral cortex with acute hemodilution

Poster Session

Albert Tsui, Gregory Hare, Philip A. Marsden (SMH)

P01 nNOS contributes to protective role in rodents during acute hemodilutional anemia

Marie Felten, Peter Slinger (UHN-TGH)

P02 TEE assessment of mitral secondary chordal cutting and ring annuloplasty

Summer Syed, Dumindra Wijeyesundera (UHN-TGH)

P03 Does staging bilateral knee surgery decrease cardiac morbidity?

Massimiliano Meineri, Keyvan Karkouti (UHN-TGH)

P04 Impact of a treatment protocol for excessive blood loss in cardiac surgery

Carmen Kummer, Claude Laflamme (SWCHSC)

P05 Is HbA1c a marker for poor outcome after CARG in undiagnosed diabetics?

Carmen Kummer, Doreen Yee (SWCHSC)

P06 A review of traumatic airway injuries: Implications in airway management

Georges L. Savoldelli, Viren N. Naik (SMH)

P07 The value of debriefing in simulation-based education: Oral versus video-assisted feedback

Jessica E. Burjorjee, Pamela J. Morgan (SWCHSC)

P08 The use of simulation for anesthesia residents to practice teaching medical students

Ken Walsh, Colin McCartney (UHN-TWH)

P09 Identifying an anesthetic curriculum for medical undergraduates. A Delphi study.

Sudhir Dhumne, Jose Carvalho (UHN-MSH)

P10 Prophylactic granisetron does not prevent nausea and vomiting during elective cesarean section under spinal anesthesia

Naveed Tahir Siddiqui, Gordon Fox (UHN-MSH)

P11 Hypoxemia on arrival to PACU: An observation audit

P. C. MacDougall, A. Jadad (UHN-TGH)

P12 Optimizing patterns of community referral to tertiary level specialists for management of chronic post-operative pain syndromes: A pilot study

Alan J. McCheyne, Bruno Bissonnette (HSC)

P13 Transient hyperemic response test differences during propofol and halothane in paediatric anesthesia

Alan J. McCheyne, Bruno Bissonnette (HSC)

P14 The effect of halothane and propofol on acute changes in cerebral blood volume in young children

Katherine Lau, Bruno Bissonnette (HSC)

P15 Effect of propofol concentration changes on electroencephalogram and bispectral index in children

Katherine Lau, Bruno Bissonnette (HSC)

P16 Can cerebral blood flow velocity and BIS detect changes in depth of anesthesia in children

Thomas Engelhardt, Bruno Bissonnette (HSC)

P17 Awareness during paediatric anesthesia – Myth or true concern?

Thomas Engelhardt, Bruno Bissonnette (HSC)

P18 The effect of propofol infusion on plasma cyclic GMP concentrations in anesthetized children

Cristian Arzola, Jose Carvalho (UHN-MSH)

P19 Lumbar dural sac width determined by ultrasound does not correlate with sensory levels of spinal anesthesia for elective cesarean section

Yamini Murthy, Pamela Angle (SWCHSC)

P20 Building a labour pain scale

Suwimon Tangwiwat, Pirjo Manninen (UHN-TWH)

P21 Post procedure pain management in patients following treatment for intracranial aneurysm

Michael Gofeld, Gil Faclier (SWCHSC)

P22 Ultrasound guided ilioinguinal nerve block in adults?

Ayman Rofaeel, Philip Peng (UHN-TWH)

P23 Feasibility of real-time ultrasound for pudendal nerve block in patients with chronic perineal pain

William Ju, Beverley Orser (SWCHSC)

P24 Characterization of tonically conducting GABA(A) receptors in the spinal cord

Justin M. John, Bruno Bissonnette (HSC)

P25 Paediatric airway management: Comparing the glidescope video laryngoscope with direct laryngoscopy

Maria Carmen M. Angeles, Arsenio Avila (SWCHSC)

P26 Assessment of a new technique of glidescope intubation in mediastinal mass resection

CONTINUING EDUCATION COMMITTEE

CME Chair:

Dr. Peter Slinger

Committee Members:

Dr. Pamela Angle	Sunnybrook & Women's College (Women's College Campus)
Dr. Karen Cybulski	Hospital for Sick Children
Dr. Sharon Davies	UHN/Mount Sinai Hospital
Dr. Len Eisen	UHN/Mount Sinai Hospital
Dr. Mark Freidlander	North York General Hospital
Dr. Charles Knapp	North York General Hospital
Dr. Carol Loffelmann	St. Michael's Hospital
Dr. Joe Kay	Sunnybrook & Women's College (Sunnybrook Campus)
Dr. Jordan Tarshis	Sunnybrook & Women's College (Sunnybrook Campus)
Dr. Martin van der Vyver	Sunnybrook & Women's College (Women's College Campus)
Dr. Jean Wong	UHN/Toronto Western Hospital

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

Course Development

Each year the committee supervises the Anesthesia Practice Meeting. Under the direction of Dr. Pamela Angle in 2005. This two-day course provided a combination of lectures, workshops and small group sessions. Over the past three years, the meeting has been extremely successful with unprecedented numbers of participants.

Course Sponsorship

The CME Committee aids in the development and accreditation of the following ongoing CME courses produced by the U of T Department of Anesthesia:

1. Obstetric Anesthesia, September 10, 2005, Mount Sinai Hospital, Contact: J. Carvalho (Jose.Carvalho@uhn.on.ca)
2. Regional Anesthesia and Pain Medicine, September 30-October 2, 2005, Contact: V. Chan (Vincent.chan@uhn.on.ca)
3. Transesophageal Echocardiography, November 5-6, 2005, Contact: A. Vegas (Annette.Vegas@uhn.on.ca)
4. Pediatric Anesthesia, November 11-13, 2005, Contact: L. Roy (Lawrence.roy@sickkids.ca)
5. Anesthesia Faculty Development Day, November 11, 2005, Contact: P. Houston (houstonp@smh.toronto.on.ca)
6. Toronto Anesthesia Practice, November 25-27, 2005, Delta-Chelsea Hotel, Contact: P. Angle (Pamela.Angle@sunnybrook.ca)
7. Tremblant Anesthesia Meeting, February 17-20, 2006, Fairmont Hotel Mt. Tremblant; Contact: J. Tarshis (jordan.tarshis@sunnybrook.ca)
8. Toronto Anesthesia Symposium: "Update on Airway Management". April 1-2, 2006. Contact: P. Slinger (peter.slinger@uhn.on.ca)
9. 3rd Annual International Symposium on Ultrasound and Regional Anesthesia, April 22-4, 2006, Contact: C. Drane (Christine.Drane@uhn.on.ca)

City Wide Rounds

University of Toronto Anesthesia Video-Conference Rounds were held 3 times in 2005-2006:

- September 30, 2005: "Inflammatory Mediators of Surgery: Pain and Outcome Measures as it Relates to Anesthesia", Dr. Asokumar Buvanendran
- December 9, 2005: "Ambulatory Perineural Analgesia", Dr. Xavier Capdevila
- January 6, 2006: "Recombinant Factor VIIa", Dr. Keyvan Karkouti
- March 3, 2006: "Mechanisms of Cerebral Protection and Injury During Acute Anemia", Dr. Greg Hare
- April 28, 2006: "The Present and Future of Pain Research", Dr. Mike Salter

Web-Based Learning

CME Online Anesthesia Rounds

This program has been enlarged to eight educational modules. This program has been developed by Sharon Davies (Mt. Sinai). These modules have been accredited by the University of Toronto for MainCert Category I credits and can be accessed through the U of T Anesthesia Department Website www.anesthesia.utoronto.ca under: Education/ Continuing Medical Education.

Continuing Professional Development

The CME Committee plans to develop a grant program using funds generated by the University of Toronto Department of Anesthesia continuing medical education (CME) courses to enable the U of T Anesthesia faculty to pursue further education or projects related to CPD.

City Wide Rounds

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RESEARCH COMMITTEE

Research Chair: Dr. David Mazer

Committee Members:

Dr. Pamela Angle	SWCHSC (Women's College Campus)
Dr. Andrew Baker	St. Michael's Hospital
Dr. Scott Beattie	UHN/Toronto General Hospital
Dr. Alan Chaput	Trainee Representative
Dr. Mark Crawford	Hospital for Sick Children
Dr. Brian Kavanagh	Hospital for Sick Children
Dr. Mark Levine	Residency Program Director
Dr. Alison MacArthur	UHN/Mount Sinai Hospital
Dr. Peter Mak	UHN/Toronto Western Hospital
Dr. David Mazer	St. Michael's Hospital
Dr. David McKnight	Ethics, St. Michael's Hospital
Dr. Beverley Orser	SWCHSC (Sunnybrook Campus)

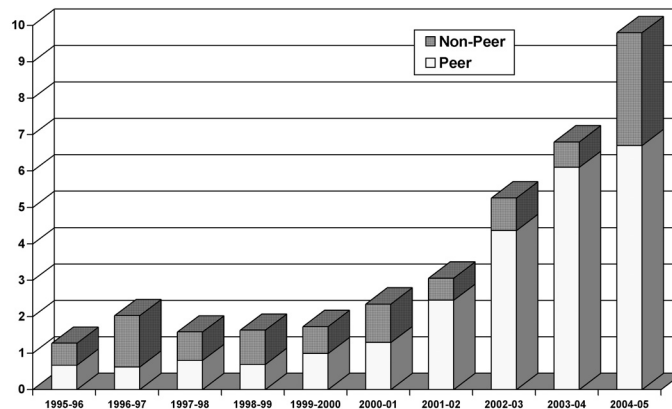
Research Productivity and Funding Support

2005–2006 was another very successful year for the Department of Anesthesia. Research funding increased for the 6th consecutive year and now exceeds \$9 million. Peer-review funding continues to be the major source of research support, increasing by more than 5 fold in the last 5 years. In keeping with the department’s priorities, research in neuroanesthesia, cardiorespiratory, critical care, pain, technology, education, patient safety, ambulatory and obstetrical anesthesia continue to be well supported.

Our productivity remains very competitive with other leading Departments of Anesthesia in North America, with 172 publications, 171 abstracts and 30 book chapters published this year (please refer to the list of publications on page 26).

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

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



Selected Grants and Awards

- Dr. Scott Beattie was awarded a CIHR grant for “The perioperative epidural trial (POET): A pilot trial assessing the use of perioperative epidural anesthesia and analgesia in the reduction of major postoperative cardiopulmonary morbidity”.
- Dr. Frances Chung received funding from the Physicians’ Services Incorporated Foundation for a study of the “Elimination of preoperative testing in low-risk day surgery”.
- Dr. Joe Fisher received grants from the U.S. government to study “Testing for highly mobile oxygen supplementation system and investigation of feasibility of integrating with battlefield ventilation device”.
- Drs. Viren Naik, Hwan Joo, and Patricia Houston received grants from The Canadian Anesthesiologists’ Society, the Dean’s Excellence Fund for Medical Education, and the Physicians’ Services Incorporated Foundation to study simulation-based training and performance for anesthesia residents.
- Dr. Keyvan Karkouti was awarded a CIHR grant for his study entitled “Development and validation of a clinical prediction rule for massive blood loss in cardiac surgery”.
- Dr. Brian Kavanagh was awarded a CIHR grant for “Therapeutic hypercapnia”.
- Dr. Wei-Yang Lu received funding from CIHR to study “Acetylcholinesterase in brain aging”.
- Dr. Haibo Zhang was awarded a CIHR grant for his study on “Human neutrophil peptides in lung inflammation”.

PUBLICATIONS

Ahmed II, Chen SH, Kranemann C, Wong DT. Surgical repositioning of dislocated capsular tension rings. *Ophthalmology* 2005; 112:1725-33

Ali J, Baker AJ. Long-term potentiation of evoked presynaptic response at CA3-CA1 synapses by transient oxygen-glucose deprivation in rat brain slices. *Experimental Brain Research* 2006; 169(1):126-129

Ananthanarayan C, Hurwitz J. Influence of common herbal medicines and nutraceuticals on ocular surgery. *Clin & Sur J of Ophthalmology* 2006; 24(1):22-26

Angle PJ, Hussain K, Morgan A, Halpern SH, van der Vyver M, Yee J, Kiss A. High quality labour analgesia using small gauge epidural needles and catheters. *Can J Anesth* 2006; 53:263-7

Anton N, Cox P, Massicotte P, Dinyari M, Vegh P, Mitchell L. No difference in incidence of thrombosis between heparin bonded catheters and non heparin bonded catheters: A randomized controlled triple blood study. *J Thromb Haemost*, 2005; Vol 3(1):94

Arellano R, Gan BS, Salpeter MJ, Yeo E, McCluskey S, Pinto R, Irish J, Ross D, Doyle DJ, Parkin J, Brown D, Rotstein L, Witterick I, Matthews W, Yoo J, Neligan PC, Gullane P, Lampe H. A Triple-Blinded Randomized Trial Comparing the Hemostatic Effects of Large-Dose 10% Hydroxyethyl Starch 264/0.45 Versus 5% Albumin During Major Reconstructive Surgery. *Anesth. Analg* 2005; 100:1846-1853

Arrica M, Crawford MW. Complete upper airway obstruction after induction of anesthesia in a child with undiagnosed lingual tonsil hypertrophy. *Pediatric Anesthesia* 2006; 16:584-7

Atkins RF, Wong DT. The LMA is a critical rescue device in airway emergencies. *Anesth Analg* 2005; 101:1888-9

Awad IT, Chan V. Ultrasound imaging of peripheral nerves: a need for a new trend (editorial). *Reg Anesth Pain Med* 2005; 30:321-3

Balki M, Ronayne M, Davies S, Fallah S, Kingdom J, Windrim R, Carvalho JCA. Minimum oxytocin dose requirement after cesarean delivery for labor arrest. *Obstet Gynecol* 2006; 107(1):45-50

Beattie WS, Abdelnaem E, Wijeyesundera DN, Buckley DN. A meta-analytic comparison of preoperative stress echocardiography and nuclear scintigraphy imaging. *Anesth Analg*. 2006; 02(1):8-16

Bell JH, Duffin J. Rapid increases in ventilation accompany the transition from passive to active movement. *Respir Physiol Neurobiol*. 2006; 152(2):128-42

Berkenstadt H, Yusim Y, Katznelson R, Ziv A, Livingstone D, Perel A. A novel point-of-care information system reduces anesthesiologists' errors while managing case scenarios. *Eur J Anaesthesiol*. 2006; 23(3):239-50

Bogoch I, Sockalingam S, Bollegala N, Baker A, Bhalerao S. Family types in the neurotrauma intensive care. *American Journal of Critical Care* 2005; 14(4):283-4

Bohn D. ECMO – Long term follow-up. *Paediatric Respiratory Reviews* 2006; 7S:S2194-S195

Bohn D. Diaphragmatic hernia – pre and postnatal. *Paediatric Respiratory Reviews* 2006; 7S:S249-S250

Bohn DJ, Davids MR, Friedman O, Halperin ML. Acute and fatal hyponatremia after resection of a craniopharyngioma: A preventable tragedy. *QJ Med* 2005; 98:691-703

Borger M, Alam A, Murphy P, Doenst T, David T. Chronic ischemic mitral regurgitation: Repair, replace or rethink? *Ann Thorac Surg.* 2006; 81(3):1153-61

Brown, SC, Jeavons, M, Stinson J. Effectiveness of Pamidronate for treating intractable chronic neuropathic pain: Case report of two adolescents. *Clinical Journal of Pain* 2005; 21(6):549-552

Brull R, McCartney CJL, Chan VWS, Abbas S, Nova H, von Schroeder H, Katz J. Effect of Transarterial Axillary Block Vs. General Anesthesia on Paresthesiae One Year After Hand Surgery. *Anesthesiology*, 2005; 103:1104-5

Brull R, YaDeau JT, Lipnitsky JY, Liguori GA, MacKenzie CR. A pre-admission telephone call to initiate the consent process for clinical anesthesia research. *Hospital for Special Surgery Journal* 2006; 2: 42-8

Byrick Robert J. Anesthesia research productivity in Canada: role of academic departments. *Can J Anesth* 2006; 53:217-221

Caldarone CA, Benson LN, Holtby H, Van Arsdell GS. Main pulmonary artery to innominate artery shunt during hybrid palliation of hypoplastic left heart syndrome. *Journal of Thoracic & Cardiovascular Surgery.* Oct 2005; 130(4):e1-2

Caputo KM, Byrick R, Chapman MG, Orser BJ, Orser BA. Intubation of SARS Patients: Infection and Perspectives of Healthcare Workers. *Can J Anaesth.* Feb 2006; 53(2):122-9

Chan V. Introduction: labat lecture 2005. *Reg Anesth Pain Med* 2006; 31:46

Chan VW. Ultrasound evidence of intraneural injection (letter). *Anesth Analg* 2005; 101:610-1

Chan VW, Clark AJ, Davis JC, Wolf RS, Kellstein D, Jayawardene S. The post-operative analgesic efficacy and tolerability of lumiracoxib compared with placebo and naproxen after total knee or hip arthroplasty. *Acta Anaesthesiol Scand* 2005; 49:1491-500

Chan VW, Nova H, Abbas S, McCartney CJ, Perlas A, Quan Xu D. Ultrasound examination and localization of the sciatic nerve: A volunteer study. *Anesthesiology* 2006; 104:309-14

Cheng K-C, Hou C-C, Huang H-C, Lin S-C, Zhang H. Intravenous injection of methylprednisolone reduces the incidence of post-extubation stridor in ICU patients. *Critical Care Medicine* 2006; 34:1345-50

Cheng VY, Martin LJ, Elliott EM, Kim JH, Mount HTJ, Taverna FA, Roder JC, MacDonald JF, Bhambri A, Collinson N, Wafford KA, Orser BA $\alpha 5$ GABA_A receptors mediate the amnestic but not sedative-hypnotic effects of the general anesthetic etomidate. *J Neurosci*, 2006; 26:3713-3720

Cheung AM, Tansey CM, Tomlinson G, Diaz-Granados N, Matte-Martyn A, Mehta S, Mazer CD, Guest CB, Stewart TE, Al-Saidi F, Cooper AB, Cook D, Slutsky AS, Herridge MS for the Canadian Critical Care Trials Group. Two-Year Outcomes, Health Care Utilization and Costs in Survivors of the Acute Respiratory Distress Syndrome. *Am J Respir Crit Care Med.* June 2006

Chiu PPL, Sauer C, Mihailovic A, Adatia I, Bohn D, Coates AL, Langer JC. The price of success in the management of congenital diaphragmatic hernia: is improved survival accompanied by an increase in long-term morbidity? *J Pediatr Surg* 2006; 41:888-92

Chukwuemeka A, Weisel A, Maganti M, Nette AF, Wijesundera DN, Beattie WS, Borger MA. Renal dysfunction in high-risk patients after on-pump and off-pump coronary artery bypass surgery: a propensity score analysis. *Ann Thorac Surg.* 2005; 80(6):2148-53

- Chung F, Imasogie N, Ho J, Ning X, Prabhu A, Curti B.** Frequency and implications of ambulatory surgery without an escorts. *Can J Anesth* 2005; 52:1022-6
- Chung F, Kayumov L, Sinclair DR, Edward R, Moller HJ, Shapiro CM.** What is the driving performance of ambulatory surgical patients after general anesthesia? *Anesthesiology* 2005; 103:951-6
- Cooper AB, Cohn SM, Zhang H, Hanna K, Stewart TE, Slutsky AS; ALBUR Investigators.** Five percent albumin for adult burn shock resuscitation: lack of effect on daily multiple organ dysfunction score. *Transfusion*. 2006; 46:80-9
- Crawford MW, Galton S, Abdelhaleem M.** Screening for sickle cell disease in children with cleft lip and palate. *Can J Anesth* 2006; 53:632-3
- Crawford MW, Galton S, Abdelhaleem M.** Preoperative screening for sickle cell disease in children: clinical implications. *Can J Anesth* 2005; 52:1058-1063
- Crawford MW, Galton S, Naser B.** Postoperative morphine consumption in children with sickle cell disease. *Pediatric Anesthesia* 2006; 16:152-157
- Crawford MW, Hickey C, Zaarour C, Howard A, Naser B.** Development of acute opioid tolerance during infusion of remifentanyl for pediatric scoliosis surgery. *Anesthesia and Analgesia* 2006; 102:1662-7
- Crawford MW, Rohan D.** The upper airway in Weaver syndrome. *Paediatric Anesthesia* 2005; 15:893-896
- Crawford MW, Rohan D, Macgowan C, Yoo SJ, Macpherson B.** Effect of propofol anesthesia and continuous positive airway pressure on upper airway size and configuration in infants. *Anesthesiology* 2006; 105:45-50
- Crimi E, Sica V, Williams-Ignarro S, Zhang H, Slutsky AS, Ignarro LJ, Napoli C.** The role of oxidative stress in adult critical care. *Free Radic Biol Med* 2006; 40:398-406
- David JS, Tousignant CP, Bowry R.** Tricuspid Annular Velocity in Cardiac Surgery Patients using Transesophageal Echocardiography. *J Am Soc Echocardiogr* 2006; 19(3):329-34
- de Mos N, van Litsenburg RR, McCrindle B, Bohn D, Parshuram CS.** Pediatric in-intensive-care-unit cardiac arrest: Incidence, survival, and predictive factors *Crit Care Med* 2006; 34:1209-15
- Devereaux PJ, Beattie WS, Djaiani G, Rao V, Borger MA, Karkouti K.** Low hematocrit during cardiopulmonary bypass is associated with increased risk of perioperative stroke in cardiac surgery. *Ann Thorac Surg*. 2005; 80(4):1381-7
- Doenst T, Wijesundera D, Karkouti K, Zechner C, Maganti M, Rao V, Borger MA.** Hyperglycemia during cardiopulmonary bypass is an independent risk factor for mortality in patients undergoing cardiac surgery. *J Thorac Cardiovasc Surg* 2005; 130:1144-1150
- Dong H, Kumar M, Zhang Y, Xiang YY, Perrella J, Ye B, Zhang N, Wheeler M, Lu W-Y, and Wang Q.** GABA up- and down-regulates insulin secretion from β -cells in concert with changes in glucose concentration. *Diabetologia* 2006; 49(4):697-705
- DS Macdonald, M Weerapura, MA Beazely, L Martin, W Czerwinski, JC Roder, BA Orser, JF MacDonald.** Modulation of NMDA receptors by pituitary adenylate cyclase activating peptide in CA1 neurons requires Galphaq, protein kinase C, and activation of Src. *J Neurosci*, 2005; 7; 25(49):11374-84.
- Duffin J.** Supraspinal locomotor centers do/do not contribute significantly to the hyperpnea of dynamic exercise in humans. *J Appl Physiol*. 2006; 100(4):1418

Duffin J. Role of acid-base balance in the chemoreflex control of breathing. *J Appl Physiol.* 2005; 99(6):2255-65

Duffin J, Li YM. Transmission of respiratory rhythm: Midline-crossing connections at the level of the phrenic motor nucleus? *Respir Physiol Neurobiol.* 2005; 18

Espin S, Rubin B, Whyte S, Colmenares M, Baker GR, Doran D, Grober E, Orser BA, Bohnen J, Reznick R. Getting Teams to Talk: Development and Pilot Implementation of Checklist to Promote Inter-professional Communication in the OR. *Qual Saf Health Care.* 2005; 14(5):340-6

Gagliese L, Weizbilit N, Ellis W, Chan VW. The measurement of postoperative pain: a comparison of intensity scales in younger and older surgical patients. *Pain.* 2005; 117(3):412-20

Gofeld M. Radiofrequency facet denervation: a randomized control placebo versus sham procedure. *Clin J Pain* 2006; 22:410-1

Gofeld M, Cohen E, Niv D. New approach for spinal cord stimulation trial. *Pain Practice* 2005; 4:324-6

Gofeld M, Faclier G. Bilateral pain relief after unilateral thoracic percutaneous sympathectomy. *Can J Anaesth* 2006; 53:258-62

Gofeld M, Robinson S, Faclier G. Administration of nabilone for postoperative pain control in the marijuana addicted: case report. *Acute Pain* 2006; 8:29-32

Glouberman S, Enkin M, Groff P, Jadad A, Stern A for the Clinamen Collaboration. Entrenched health care practices and complex systems. *Australian Health Review* 2006; 30:7-11

Goldszmidt E, Kern R, Chaput A, Macarthur A. The incidence and etiology of postpartum headaches: a prospective cohort study. *Can J Anesth* 2005; 52(9):971-77

Guru V, Anderson G, Fremes et al. and the Canadian CABG Surgery Quality Indicator Consensus Panel (Murphy P) How many arterial grafts are enough? A population-based study of midterm outcomes. *J Thorac Cardiovasc Surg.* 2006; 131(5):1021-1028

Haj RM, Cinco JE, Mazer CD. Treatment of Pulmonary Hypertension with Selective Pulmonary Vasodilators. *Current Opinion in Anesthesiology* 2006; 19(1):88-95

Hemmings HC, Akabas MH, Goldstein PA, Trudell JR, Orser BA, NL, Harrison. Emerging Mechanisms of General Anesthetic Action. *Trends in Pharmacology,* 2005; 26(10):503-10

Hoskote A, Bohn D, Gruenwald C, Edgell D, Cai S, Adatia I, Van Arsdell G. Extracorporeal life support after staged palliation of a functional single ventricle: subsequent morbidity and survival. *J Thorac Cardiovasc Surg* 2006; 113:1114-21

Hothi DK, St. George-Hyslop C, Geary D, Bohn D, Harvey E. Continuous renal replacement therapy (CRRT) in children using the AQUARIUS. *Nephrol Dial Transplant* May, 2006 (e-pub ahead of print).

Hunter T, Lerman J, Bissonnette B. *Paediatr Anaesth.* 2006; 16(6):704-5. No abstract available

Hunter T, Lerman J, Bissonnette B. The temperature and humidity of inspired gases in infants using a pediatric circle system: effects of high and low-flow anesthesia. *Paediatr Anaesth.* 2005; 15(9):750-4

Ioscovich A, Briskin A, Lebel E, Itzchaki M, Zimran A, Elstein D, Halpern S. Anesthesia for total hip replacement in Gaucher's disease. *Eur J Anesthesiol* 2006; 23:265-6

Ioscovich A, Briskin A, Abrahamov A, Halpern S, Zimran A, Elstein D. Brief Report: Uncomplicated outcome after anesthesia for pediatric patients with Gaucher Disease. *Can J Anesth* 2005; 52:845-7

Isaac L, McEwen J, Hayes J, Crawford MW. Pilot study of the rectus sheath block for pain control after umbilical hernia repair. *Pediatric Anesthesia* 2006; 16:406-409

Iscoe S, Fisher JA. Hyperoxia-induced hypocapnia: an underappreciated risk. *Chest*. 2005; 128(1):430-3. Review.

Jadad AR. What will it take to bring the Internet to the consulting room? We cannot remain oblivious to our patients' expectations. *Journal of General Internal Medicine* 2005; 20:786-7

Jadad AR, Enkin MW, Glouberman S, Groff P, Stern A. Are virtual communities good for our health? *British Medical Journal* 2006; 22;332(7547):925-6

Jain P, David T, Vegas A. Chronic dissection of the right aortic sinus with detachment of the aortic annulus and coronary artery. *J Thor and Cardiovasc Surg* 2005; 130 (4):1221-1222

Jain P, Vegas A and Brister S. Thoracic Complications of nasogastric tube: a review of safe practice. *Interactive Cardiovascular and Thoracic Surgery* 2005; 4:429-433

Jan AM, Sandor GK, Iera D, Mhawi A, Peel S, Evans AW, Clokie CM. Hyperbaric oxygen results in an increase in rabbit calvarial critical sized defects. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod.* Feb 2006; 101(2):144-9

Jones K, Evans AW, Bristow RG, Levin W. Treatment of radiation proctitis with hyperbaric oxygen. *Radiother Oncol.* Jan 2006; 78(1):91-4

Joo HS, Naik VN. Conventional tracheal tubes for intubation through the intubating laryngeal mask airway. *Anesth Analg* 2005; 101(4):1245

Kamat PP, Slutsky A, Zhang H et al. Mechanical ventilation exacerbates alveolar macrophage dysfunction in the lungs of ethanol-fed rats. *Alcoholism-Clinical and Experimental Research* 2005; 29:1457-65

Karkouti K, Beattie WS, Dattilo KM, McCluskey SA, Ghannam M, Hamdy A, Wijeyesundera DN, Fedorko L, Yau TM. A propensity score case-control comparison of aprotinin and tranexamic acid in high-transfusion-risk cardiac surgery. *Transfusion* 2006; 46(3):327-38

Karkouti K, Djaiani G, Borger MA, Beattie WS, Fedorko L, Wijeyesundera DN, Ivanov J, Karski J. Low hematocrit during cardiopulmonary bypass is associated with increased risk of stroke in cardiac surgery. *Ann Thorac Surg* 2005; 80:1381-1387

Karkouti K, McCluskey SA, Ghannam M, Salpeter MJ. The efficacy of two therapies – intravenous iron and recombinant erythropoietin – for postoperative anemia (a randomized, double-blinded, placebo-controlled clinical trial). *Can J Anesth.* 2006; 53(1):11-9

Karkouti K, Shayan S, Wijeyesundera DN, McCluskey S, Ghannam M, Beattie WS. Prognostic value of postoperative proteinuria in cardiac surgery: a pilot study: [Valeur pronostique de la proteinurie postoperative en chirurgie cardiaque : une etude pilote]. *Can J Anaesth.* 2006; 53(5):500-6

Karkouti K, Wijeyesundera DN, Yau TM, Callum JL, McCluskey SA, Meineri M, Wasowicz M, Ghannam M, Hamdy A, Beattie WS. Platelet transfusions are not associated with increased morbidity and mortality in cardiac surgery. *Can J Anesth.* 2006; 53(3):279-87

Karski J, Djaiani G, Carroll J, Iwanochko M, Seneviratne P, Liu P, Kucharczyk W, Fedorko L, David T, Cheng D. Tranexamic acid and early saphenous vein graft patency in conventional coronary artery bypass graft surgery: a prospective randomized controlled clinical trial. *J Thorac Cardiovasc Surg.* 2005; 130(2):309-14

Kavanagh BP, Laffey JG. Hypercapnia and Critical Care – Current Concepts. *Minerva Anesthesiologica* 2006; 72:567-576

Khine AA, Del Sorbo L, Slutsky AS, Downey, G, Zhang H. Human neutrophil peptides induced interleukin-8 production is mediated by uridine nucleotide diphosphate signaling. *Blood* 2006; 107:2936-42

Lee J, Crawford MW, Forrest C, Buncic R. Anterior ischaemic optic neuropathy complicating craniosynostosis repair in a pediatric patient. *Journal of Craniofacial Surgery* 2005; 16:559-62

Lermitte J, Chung, F. Patient selection in ambulatory anesthesia. *Curr Opin Anaesthesiol* 2005; 18:598-602

Li J, Zhang G, Holtby HM, McCrindle BW, Cai S, Humpl T, Caldarone CA, Williams WG, Redington AN, Van Arsdell GS. Inclusion of oxygen consumption improves the accuracy of arterial and venous oxygen saturation interpretation after the Norwood procedure. **Journal of Thoracic & Cardiovascular Surgery.** May 2006; 131(5):1099-107

Lilker S, Kasodekar S, Goldszmidt E. Anesthetic Management of a Parturient with Carnitine Palmitoyltransferase II Deficiency. *Can J Anesth* 2006; 53(5):482-86

Lo B, Li L, Gissen P, Christensen H, McKiernan PJ, Ye C, Abdelhaleem M, Hayes JA, Williams MD, Chitayat D, Kahr WH. Requirement of VPS33B, a member of the Sec1/Munc18 protein family, in megakaryocyte and platelet {alpha}-granule biogenesis. *Blood.* 2005; 106:4159-66

Lohser J, Donington JS, Mitchell JD, Brodsky JB, Raman J, Slinger P. Anesthetic management of major hemorrhage during mediastinoscopy. *J Cardiothorac Vasc Anesth.* 2005; 19(5):678-83

Lorenzo AJ, Karsli C, Halachmi S, Dolci M, Luginbuehl I, Bissonnette B, Farhat WA. Hemodynamic and respiratory effects of pediatric urological retroperitoneal laparoscopic surgery: a prospective study. *J Urol.* 2006; 175(4):1461-5

Lorraway PG, Savoldelli GL, Joo HS, Chandra DB, Chow R, Naik VN. Management of simulated oxygen failure: Is there a gap in curriculum? *Anesth Analg* 2006; 102(3):865-7

MacArthur AJ, Cooke L, Pollard J, Brant R. Peripartum myocardial ischemia: A review of Canadian deliveries from 1970 – 1998. *Am J Obst Gyn* 2006; 194:1027-33

Macdonald DS, Weerapura M, Beazely MA, Martin L, Czerwinski W, Roder JC, Orser BA, MacDonald JF. Modulation of NMDA receptors by pituitary adenylate cyclase activating peptide in CA1 neurons requires Galphaq, protein kinase C, and activation of Src. *J Neurosci* 2005; 7; 25(49):11374-84

Manninen P. Update on anesthesia for interventional and diagnostic radiology. *Can J Anesth* 2006; 53:R5

Manninen P, Balki M, Lukitto K, Bernstein M. Patient satisfaction with awake craniotomy for tumor surgery: A comparison of remifentanyl and fentanyl in conjunction with propofol. *Anesth Analg* 2006; 102:237-242

McCartney CJL, Levine MF. Training intensity and consultant support: The Canadian experience. *Br J Anaesth* 2006; 96:540-1

McCaul CL, Harney D, Ryan M, Moran C, Kavanagh BP, Boylan JF. Airway management in the Lateral Position – A Randomized Controlled Trial. *Anesth Analg* 2005; 101:1221-1225

McCaul CL, McNamara P, Engelberts D, Wilson G, Romaschin A, Redington AN, Kavanagh BP. Epinephrine increases mortality after brief asphyxial cardiac arrest in an in vivo rat model. *Anesth Analg* 2006; 102:542-548

McCaul CL, McNamara P, Slorach C, Engelberts D, Hornberger L, Kavanagh BP. Non-Invasive echocardiography in assessment of experimental cardiac arrest. *Resuscitation* 2006; 68:267-275

McGrath, PA, Brown, SC. Quantitative Sensory Testing in Children: Practical Consideration for Research and Clinical Practice. *Pain* 2006; 123:1-2

Mills E, Jadad AR, Ross C, Wilson K. Systematic review of qualitative studies exploring parental beliefs and attitudes toward childhood vaccination identifies common barriers to vaccination. *Journal of Clinical Epidemiology*. Nov 2005; 58(11):1081-8

Mikulus DJ, Krolczyk G, Desai H, Logan W, Deveber G, Dirks P, Tymianski P, Crawley A, Vesely A, Kassner A, Preiss D, Somogyi R, Fisher JA. Preoperative and postoperative mapping of cerebrovascular reactivity in moyamoya disease by using blood oxygen level-dependent magnetic resonance imaging. *J Neurosurg*. 2005; 103(2):347-55

Monnier N, Kozak-Ribbens G, Krivosic-Horber R, Nivoche Y, Qi D, Kraev N, Loke J et al. Correlations between genotype and pharmacological, histological, functional and clinical phenotypes in malignant hyperthermia susceptibility. *Human Mutation* 2005; 26(5):413-425

Morley-Forster PK, Singh S, Angle P, Littleford J, Currin MJ, and Halpern SH. The effect of epidural needle type on postdural puncture headache: a randomized trial. *Can J Anesth* 2006; 53:572-8

Orser, BA, Caraiscos VB, Elliott E, Cheng VY, Newell JG, MacDonald JF. Anesthetic sensitivity is reduced in hippocampal pyramidal neurons from GABA_A receptor $\alpha 5$ subunit null mutant mice. *International Congress Series* 2005; 1283:38-42

Orser BA, Caraiscos VB, You-Ten EK, Cheng VY, Newell JG, MacDonald JF. The $\alpha 5$ GABA_A receptor subunit confers resistance to isoflurane inhibition. *International Congress Series* 2005; 1283:189-92

Orser, BA, Dionne C, Hyland S. Drug safety in Canada: 2 steps forward, 1 step back. *CMAJ* 2006; 174(1).

Orser, BA. Extrasynaptic GABA_A receptors as critical targets for sedative-hypnotic drugs. *The Journal for Clinical Sleep Medicine* 2006; 2:S12-S18 (invited review)

Park E, McKnight S, Ai J, Baker AJ. Prukinje cell vulnerability to mild and severe forebrain head trauma. *Journal of Neuropathology and Experimental Neurology* 2006; 65(3):226-34

Peliowski A, Holtby HM. Novel use of an arterial cardiopulmonary bypass cannula as a tracheal tube. *Br J Anaesth* 2006; 96(3):405

Peng PWH, Rofaeel A. Using ultrasound in a case of difficult epidural needle placement. *Can J Anesth* 2006; 53:325-6

Peng P, Stafford M, Wong DT, Salenieks ME. Use of telemedicine in chronic pain consultation- a pilot project. *Clin J Pain* 2006; 22:350-2

Perel A, Minkovich L, Preisman S, Abiad M, Segal E, Coriat P. Assessing fluid-responsiveness by a standardized ventilatory maneuver: The respiratory systolic variation test (RSVT). (CPA). *Anesth Analg* 2005; 100:942-5

Pillai JB, David TE, Vegas A. Chronic dissection of the right aortic sinus with detachment of the aortic annulus and coronary artery. *J Thorac Cardiovasc Surg.* 2005; 130(4):1221-2

Randolph, Adrienne G. MB, BS, MS MSc; Forbes, Peter W. MA; Gedeit, Rainer G. MD; Arnold, John H. MD; Wetzel, Randall C. MB, BS, MS; Luckett, Peter M. MD; O'Neil, Mary E. MPH; Venkataraman, Shekhar T. MD; Meert, Kathleen L. MD; Cheifetz, Ira M. MD, FCCM, FAARC; Cox, Peter N. MBChB; Hanson, James H. MD; for the Pediatric Acute Lung Injury & Sepsis Investigators (PALISI) Network. Cumulative fluid intake minus output is not associated with ventilator weaning duration or extubation outcomes in children. *Pediatric Critical Care Medicine* 2005; 6:642-7

Rizo C, Lupea D, Baybourdy H, Anderson M, Closson T, Jadad AR. What Services Would Patients Like to Have Available Through the Internet When Hospitals Are Disabled by an Epidemic? Lessons from the SARS Outbreak at the University Health Network in Toronto. *Journal of Medical Internet Research* 2005; 7(4):e46 [http://www.jmir.org/2005/4/e46/]

Sasano H, Sasano N, Fisher JA, Katsuya H. Influence of ventilation on the rebound of inhalational anesthesia. *Anesthesia 21 Century* 5 3:926-33

Savoldelli GL, Naik VN, Hamstra SJ, Morgan PJ. Barriers to use of simulation-based education. *Can J Anesth* 2005; 52(9):944-50

Savoldelli GL, Naik VN, Hamstra SJ, Morgan PJ. Perceived barriers to simulation based education. *Can J of Anesth* 2005; 52(9):944-50

Savoldelli GL, Naik VN, Joo HS, Houston PL, Graham M, Yee B, Hamstra SJ. Evaluation of patient simulator performance as an adjunct to the oral examination for senior anesthesia residents. *Anesthesiology* 2006; 104(3):475-81

Schultke E, Kamenicic H, Zhao M, Tian GF, Baker AJ, Griebel RW, Juurlink BHJ. Neuroprotection following fluid percussion brain trauma: a pilot study using quercetin. *Journal of Neurotrauma* 2005; 22(12):1475-84

See JJ, Wong DT. Unilateral subcutaneous emphysema after percutaneous tracheostomy. *Can J Anesth* 2005; 52:1099-102

See JJ, Manninen PH. Anesthesia for neuroradiology. *Curr Opin Anaesthesiol* 2005; 18:437-41

Shehata N, Mazer CD. Optimizing Transfusion Practice. *Can J Anesth.* 2006; 53(4):331-5

Shemie S, Doig C, Dickens B, Byrne P, Wheelock B, Rocker G, Baker A, Seland tp, Guest C, Cass D, Jefferson R, Young K, Teitelbaum J, on behalf of the Pediatric Reference Group and the Neonatal Reference Group. Severe brain injury to neurological determination of death: Canadian forum recommendations. *CMAJ* 2006; 174(6):S1-12

Shemie SD, Ross H, Pagliarello J, Baker AJ, Greig PD, Brant T, Cockfield S, Keshavjee S, Nickerson P, Rao V, Guest C, Young K, Doig C; Pediatric Recommendations Group; Canadian Critical Care Society; Canadian Association of Transplantation; Canadian Society of Transplantation; Canadian Council for Donation and Transplantation. **(McRae, K).** Organ donor management in Canada: recommendations of the forum on Medical Management to Optimize Donor Organ Potential. *CMAJ* 2006; 174(6):S13-32

Shemie S, Ross H, Pagliarello J, Baker A, Greig P, Brand T, Young K, Doig C. Organ donor management in Canada: recommendations of the forum on Medical Management to Optimize Donor Organ Potential. *CMAJ* 2006; 174(6):S13-30

Silkoff PE, Erzurum SC, Lundberg JO, George SC, Marczin N, Hunt JF, Effros R, Horvath I; American Thoracic Society: HoC Subcommittee of the Assembly on Allergy, Immunology, and Inflammation (**McRae K**). ATS workshop proceedings: exhaled nitric oxide and nitric oxide oxidative metabolism in exhaled breath condensate. *Proc Am Thorac Soc* 2006; 3(2):131-45

Simchen MJ, Tesler J, Azami T, Preiss D, Fedorko L, Goldszmidt E, Fisher J, Kingdom J, Slorach C, Hornberger LK. Effects of maternal hyperoxia with and without normocapnia in uteroplacental and fetal Doppler studies. *Ultrasound Obstet Gynecol* 2005; 26(5):495-9

Skrobik Y, Kavanagh BP. Scoring systems for the critically ill: Use, misuse and abuse (Editorial). *Can J Anesth* 2006; 53:432-6

Slessarev M, Fisher J. Oxygen Administration in the ED: Choosing the appropriate dosage and technology. *Israeli Journal of Emergency Medicine* 2006; 1(6):10-21

Slessarev M, Somogyi R, Preiss D, Vesely A, Sasano H, Fisher J. Efficiency of oxygen administration: Sequential gas delivery versus “flow into a cone” methods. *Critical Care Medicine*. 2006; 43(3):829-34

Somogyi R, Vesely A, Preiss D, Prisman E, Volgyesi G, Azami T, Iscoe S, Fisher JA, Sasano H. Precise control of end-tidal PCO₂ using sequential breathing circuits. *Anesthesia And Intensive Care* 2005; 33:726-732

Taddio A, Katz J. The Effects of Early Pain Experience in Pre-Term and Full-Term Neonates on Subsequent Pain Responses later in Infancy and Childhood. *Pediatric Drugs* 2005; 7:254-257

Tan JA, Naik VN, Lingard L. Exploring obstacles to proper timing of prophylactic antibiotics for surgical site infections. *Quality and Safety in Health Care* 2006; 15(1):32-8

Taylor K, Holtby H. Methylene blue revisited: management of hypotension in a pediatric patient with bacterial endocarditis. *Journal of Thoracic & Cardiovascular Surgery* 2005; 130(2):566

Todd MM, Hindman BJ, Clarke WR, Torner JC, IHA2 Investigators. Mild intraoperative hypothermia during surgery for intracranial aneurysm. *N Eng J Med* 2005; 352:135-45

Tonkikh A, Janus C, El-Beheiry H, Pennefather PS, Samoiloa M, McDonald P, Ouanounou A, Carlen PL. Calcium chelation improves spatial learning and synaptic plasticity in aged rats. *Exp Neurol* 2006; 197:291-300

Tsuchida S, Engelberts D, Peelteková V, McKerlie C, Post M, McLoughlin P, Kavanagh BP. Atelectasis redistributes ventilator-induced lung injury. *American Journal of Respiratory and Critical Care Medicine* (published ahead of press) 2006

Tumber PS, Louis I. Botulinum toxin type A and human serum albumin. *Anesthesiology* 2006; 104:1108

Venkatraghavan L, Manninen P, Mak P, Lukitto K, Hodaie M, Lozano A. Anesthesia for functional neurosurgery: review of complications. *J Neurosurg Anesthesiol* 2006; 18:64-7

Ward B, Imarengiaye C, Peirovy J, Chung F. Cognitive function is minimally impaired after ambulatory surgery. *Can J Anesth* 2005; 52:1017-21

Wasowicz M, Vegas A, Borger M and Harwood S. Bivalirudin anticoagulation for cardiopulmonary bypass in a patient with heparin induced thrombocytopenia. *Can J Anesth* 2005; 52(10):1093-8

Wells GD, Plyley M, Thomas S, Goodman L, Duffin J. Effects of concurrent inspiratory and expiratory muscle training on respiratory and exercise performance in competitive swimmers. *Eur J Appl Physiol* 2005; 94(5-6):527-40

Wentlandt K, Carlen PL, Kushner M, Naus C, El-Beheiry H. General anaesthetics attenuate gap junction coupling in P19 cell lines. *J Neurosci Res* 2005; 81:746-52

Wentlandt K, Samoiloova M, Carlen PL, El-Beheiry H. General anesthetics inhibit gap junction communication in cultured organotypic hippocampal slices. *Analg Anesth* 2006; 102:1689-91

Wijeyesundera DN, Beattie WS, Djaiani G, Rao V, Borger MA, Karkouti K, Cusimano RJ. Off-pump coronary artery surgery for reducing mortality and morbidity: meta-analysis of randomized and observational studies. *Journal of American College of Cardiology* 2005; 46(5):872-882

Wijeyesundera DN, Karkouti K, Beattie WS, Rao V, Ivanov J. Improving the identification of patients at risk of postoperative renal failure following cardiac surgery. *Anesthesiology* 2006; 104(1):65-72

Wong DT, Fehlings MG, Massicotte EM. Anterior cervical screw extrusion leading to acute upper airway obstruction: case report. *Spine* 2005; 30:E683-6

Wong DT, Li AQ. Ventilator bellow standstill (letter). *Can J Anesth* 2005; 52:774-5

Wong GT, Luginbuehl I, Karsli C, Bissonnette B. The effect of sevoflurane on cerebral autoregulation in young children as assessed by the transient hyperemic response. *Anesth Analg* 2006; 102(4):1051-5

Xiang YY, Dong H, Wan Y, Li J; Yee A, Yang BB and Lu W-Y. Versican G3 domain regulates neurite growth and synaptic transmission of hippocampal neurons by activation of epidermal growth factor receptor. *Journal of Biological Chemistry* 2006 Apr 28

Xu D, Abbas S, Chan VW. Ultrasound phantom for hands-on practice. *Reg Anesth Pain Med* 2005; 30: 593-4

Yee B, Naik VN, Joo HS, Savoldelli GL, Chung DY, Houston PL, Karatzoglou BJ, Hamstra SJ. Non-technical skills in anesthesia crisis management with repeated exposure to simulation-based education. *Anesthesiology* 2005; 103(2):241-8

Yuan H, Chung F, Wong D, Edward R. Current preoperative testing practices in ambulatory surgery are widely disparate: a survey of CAS members. *Can J Anesth* 2005; 52:675-9

Zuo YY, Gitiafroz R, Acosta E, Policova Z, Cox PN, Hair ML, Neumann AW. The effect of humidity on the absorption kinetics of lung surfactant at air-water interfaces. *Langmuir* 2005; 8; 21(23):593-601

CHAPTERS IN BOOKS

Adatia I, Holtby H. Anomalies of the Pulmonary Valve and Right Ventricular Outflow Tract. In: Pediatric Cardiac Anesthesia, Fourth Edition. Lake C and Booker P (Eds). Lippincott, Williams & Wilkins, London 2005.

Arnold P, Holtby H. Anesthesia for the Cardiac Catheterisation Laboratory. In: Anesthesia for Congenital Heart Disease. Andropoulos D, Stayer S, Russell I (Eds). Futura Publishing Company 2005.

Awad I, Chung F. Discharge Criteria and Recovery in Ambulatory Surgery. In: Day Surgery, Development and Practice. Lemos P, Jarrett P, Philip B (Eds). International Association for Ambulatory Surgery, 2006; pp. 241-55.

Awad IT, Chung F. Postoperative Recovery and Discharge. In: Day Surgery: Development and Practice. Lemos P, Jarrett P, Philip B (Eds). IAAS 2006.

Bissonnette B (Ed), **Luginbuehl I, Marciniak B, Dalens B** (Subeditors). Syndromes: Rapid Recognition and Perioperative Management. McGraw Hill Co. New York, USA 2006; pp. 1000.

Bissonnette B, Bruder N, Ravussin P (Eds). Réanimation Neurochirurgicale. Springer-Verlag France, Springer International. Paris, France. 2006; pp. 600.

Brown SC. Analgesic Guidelines for Infants and Children, In: Schmidt, RF, Willis, WD (Eds), Encyclopedic Reference of Pain, Springer-Verlag Berlin and Heidelberg, New York 2006; pp. 96-101.

Brown, SC. Cancer Pain and Palliative Care in Children, In: Schmidt, RF, Willis, WD (Eds), Encyclopedic Reference of Pain, Springer-Verlag Berlin and Heidelberg, New York 2006; pp. 242-46.

Brull R, Sharrock NE. Anesthesia for Knee Surgery. In: Surgery of the Knee. Insall JN and Scott WN (Eds). 4th ed. Churchill Livingstone, New York 2006; pp. 1064-73.

Cox PN, Dhanani S. Infectious Syndromes in the Pediatric Intensive Care Unit. In: Pediatric Critical Care, 3rd Edition. Fuhrman B, Zimmerman J, (Eds), CV Mosby, 2006.

Duggan M, Kavanagh BP. Pulmonary Atelectasis. In: Kending's Disorders of the Respiratory Tract in Children. Chernick V, Boat T, Wilmott R, Bush A (Eds). Saunders Elsevier, Philadelphia 2006.

Gagliese L, Farrell M. The Neurobiology of Ageing, Nociception and Pain: An Integration of Animal and Human Experimental Evidence. In: Progress in Pain Research and Management: Pain in the Older Person. Gibson S, Weiner D (Eds.), IASP Press. Seattle 2005; pp. 25-44.

Gagliese L, Melzack R. Pain in the Elderly. In: Wall and Melzack's Textbook of Pain. McMahon S, Koltzenburg M (Eds.), Churchill Livingstone. Edinburgh (pp. 1169-1179). 2006

Goldszmidt E. Is There a Difference Between the Obstetric and Non-obstetric Airway? In: Evidence-based Obstetric Anesthesia. Halpern SH, Douglas MJ (Eds). Blackwell Publishing Ltd. Oxford 2005; pp. 225-236.

Hare GMT, Mazer CD. Hemoglobin Based Oxygen Carriers. In: Perioperative Transfusion Medicine, Spiess BD, Spence R and Shander A (Eds.) Williams & Wilkins, Baltimore 2005.

Holtby H. Anesthesia and Congenital Heart Disease. In: A Practical Approach to Perioperative Cardiac Anesthesia and Surgery Cheng DCH, David TE (Eds). Lippincott-Williams & Wilkins. London 2006.

Katznelson R, Murphy P. Anesthetic Management in Valvular Heart Surgery. In: A Practical Approach to Perioperative Cardiac Anesthesia and Surgery. Cheng D, David T (Eds). Lippincott, Williams & Wilkins. London.

Lacroix J, Gauvin F, Skippen P, Cox P, Langley J, Matlow A. Nosocomial Infections in the Pediatric Intensive Care Unit. In: Pediatric Critical Care, 3rd Edition. Fuhrman B, Zimmerman J (Eds.) CV Mosby, 2006.

Laffey J, Kavanagh BP. Permissive Hypercapnia. Principles and Practices of Mechanical Ventilation. 2nd ed. Tobin MJ (Ed.) McGraw Hill. New York 2006.

Luginbuehl I, Bissonnette B. Thermorégulation et contrôle de la température intraopératoire. In: Anesthésie. K Samii. (Ed.) Flammarion. 2005

Luginbuehl IA, Bissonnette B, Davis PA. Thermoregulation - Physiology and Perioperative Management in Infants and Children. In: Smith's Anesthesia for Infants and Children, 7th edition. Motoyama EK, Davis PA (Eds.) Mosby, St. Louis 2005.

McCartney CJL. Use of Analgesic Adjuvants in the Peripheral Nervous System. In: Modern Regional Anesthesia: Principles and Practice. Hadzic A (Ed.) McGraw Hill 2006.

McCartney CJL, Niazi A. Use of Opioids in the Perioperative Period. In: Postoperative Pain Management – A Clinician's Guide to Evidence Based Practice. Shorten G, Brown J, Carr D, Puig M, Harmon D (Eds.) Elsevier 2006.

McRae K. Anesthesia for Intrathoracic Transplantation. In: Perioperative Care in Cardiac Anesthesia and Surgery. Cheng D, David T (Eds.) Lippincott 2006.

Oldman M, Chan VWS. Anesthesia for Ambulatory Upper-Extremity Surgical Procedures. In: Ambulatory Anesthesia & Perioperative Analgesia. Steeles SM, (Ed.) McGraw-Hill Companies, Inc. 2005; pp. 271-278.

Orser BA, Study RE. The Structure and Function of Neurons. In: Foundations of Anesthesia 2nd Edition. Hemmings HC, Hopkins PM (Eds.) Elsevier Science, United Kingdom 2006; pp. 221-232.

Orser BA. Using Knowledge to Avoid Medication Error. In: The White Paper, Knowledge Transfer and Management in Health Care: Quality, Safety, Accessibility and Affordability. Monieson Center, Queen's School of Business, 2005.

Perlas A, Chan V. Ultrasound for regional Anesthesia. In: Modern Regional Anesthesia: Principles and Practice. Hadzic A (Ed.) McGrawHill, 2006.

Vegas A. Perioperative Transesophageal Echocardiography. Pocket Manual Second Edition, 2005.

Vegas A. Weaning from Cardiopulmonary Bypass and Low Output Syndrome. In: A Practical Approach to Perioperative Cardiac Anesthesia and Surgery. Lippincott, Williams & Wilkins. London 2005.

Vegas A. Common Problems in Cardiac Surgery Recovery Unit. In: A Practical Approach to Perioperative Cardiac Anesthesia and Surgery. Lippincott, Williams & Wilkins. London 2005.

Vegas A. Transesophageal Echocardiography. In: A Practical Approach to Perioperative Cardiac Anesthesia and Surgery. Lippincott, Williams & Wilkins. London 2005.

ABSTRACTS

Ai J, Baker AJ. Long term potentiation of evoked presynaptic response at CA3 to CA1 synapses by transient oxygen glucose deprivation in rat brain slices. Washington, DC: Society for Neuroscience, 2005.

Angeles MCM, Wong D, Peng P, Chung F, Yeo E. Managing surgical patients on anticoagulants by using thrombosis risk score. *Anesthesiology* 2005; 103:A639

Angle PJ, Kiss A, Yee J, Kung R, Murthy Y, Halpern S, Streiner D. The new labor pain scale (LPS): Description and properties. *Anesthesiology* 2006; 104(1):A50

Arrica M, Crawford MW, Macgowan CK, Yoo SJ. Extent and localization of changes in upper airway caliber with varying concentrations of sevoflurane in children. *Can J Anesth* 2006; A26422

Arrica M, Crawford MW, Macgowan CK, Yoo SJ. Extent and localization of changes in upper airway caliber with varying concentrations of sevoflurane in children. University of Toronto Shields Research Day, May 2006.

Arzola C, Balki M, Carvalho JCA. Lumbar dural sac width determined by ultrasound does not correlate with sensory level of spinal anesthesia for elective cesarean section. *Anesthesiology* 2006; 104(1):SOAP A7.

Arzola C, Balki M, Carvalho J. Lumbar dural sac width by ultrasound and sensory levels under spinal. *Can J Anesth* 2006.

Arzola C, Carvalho J, Davies, S, Rofaeel A. The transverse approach of lumbar spine ultrasound provides reliable landmarks for labor epidurals. *Can J Anesth* 2006.

Arzola C, Davies S, Rofaeel A, Carvalho J. Anthropometric variables and lumbar dural sac width using ultrasound. *Can J Anesth* 2006.

Assmann N, Islam S, Chung F. Outcome after general anesthesia for ambulatory surgery in the elderly. *Can J Anesth* 2006; 53:26348.

Assmann N, Islam S, Chung F. Is general anesthesia for day surgery safe in the elderly? *EJA* 2006; 23:A65

Balki M, Kasodekar S, Dhumne S, Bernstein P, Carvalho JCA. Patient controlled analgesia with remifentanyl for labor pain. *Anesthesiology* 2006; 104 Supp 1: SOAP A13.

Balki M, Kasodekar S, Dhumne S, Bernstein S, Carvalho J. Patient controlled analgesia with remifentanyl for labor pain. *Can J Anesth* 2006.

Balki M, Kasodekar S, Dhumne S, Carvalho J. Granisetron does not prevent nausea and vomiting during C-section. *Can J Anesth* 2006.

Blew BDM, Fazio LM, Honey, Stewart RJ, Hare GMT, Pace KT. Impact of pneumoperitoneum on renal blood flow in a rat model. *J. Urology* 2005;173:317-18.

Bonin RP, Wafford KA, MacDonald JF, Orser BA. Regulation of neuronal excitability and sensitivity to GABA by $\gamma 5$ subunit-containing GABAA receptors. *Society for Neuroscience* 2005; 955.13

Bowry R, Tousignant CP. Comparison of Tricuspid Annular Velocities using Transesophageal and Transthoracic Echocardiography. CAS 2006, Toronto, Ontario. June 2006.

Bowry R, Tousignant CP. Comparison of Tricuspid Annular Velocities using Transesophageal and Transthoracic Echocardiography. SCA Update on Cardiopulmonary Bypass, Whistler, British Columbia. March 2006.

Bowry R Tousignant CP. Comparisons of tricuspid annular velocities using TEE and TTE in patients for cardiac surgery. CAS, Toronto, June 2006, and the CPB update meeting, Whistler, British Columbia. March 2006.

Briet F, Keith ME, Leong-Poi H, Aba-Alkhail K, Kadakia A, Stewart D, Errett L and Mazer CD. Anesthetic & nutrient cardioprotection after MI in rats. CAS 62nd Annual Meeting, Toronto, Canada. June, 2006

Briskin A, Ioscovich A, Halpern S. Modified rapid desensitization in an obstetric patient with needle phobia. *Anesthesiology* 2006; 104 Supp 1:A105

Carvalho J, Arzola C, Davies S, Rofaeel A. The transverse approach of lumbar spine ultrasound provides reliable landmarks for labor epidurals. *Anesthesiology* 2006; 104 Supp 1:A44

Chargall Y, dePerrot M, Singer L, McRae K, Hutcheon M, Waddell T, Keshavjee S. Impact of Peri-operative inhaled Nitric Oxide on Long-Term Outcome after Lung Transplantation. *J. Heart Lung Transplant* 2006; 25:S170

Chow RE, Naik VN, Savoldelli GL, LeBlanc VR. Simulation Props: Enhancing Realism on a Budget. 6th International Meeting on Medical Simulation, San Diego, California. January 2006.

Crawford MW, Arrica M, Macgowan CK, Yoo SJ. Extent and localization of changes in upper airway caliber with varying concentrations of sevoflurane in children. Annual meeting of the Society for Pediatric Anesthesia, Sanibel, Florida. February 2006.

Crawford MW, Rohan D, Macgowan CK, Macpherson BA, Yoo SJ. Effect of propofol anesthesia and CPAP on upper airway size and configuration in infants. *Anesthesiology* 103:A1305, 2005.

Darby PJ, Briet F, Harrington AM, Hare GMT, Mazer CD. Effect of Cardiopulmonary Bypass (CPB) and Anemia on Rat Renal Blood Flow and Expression of Kidney Injury Molecule-1 (KIM-1). 16th World Congress, Society of Cardiovascular and Thoracic Surgeons, Ottawa, Canada. August 2005.

Darby PJ, Briet F, Harrington AM, Hare GMT, Mazer CD. Effects of Cardiopulmonary Bypass and Anemia on Renal Gene Expression. SCA 28th Annual Meeting, April 29, 2006; San Diego, *Anesth Analg* 2006: 102, SCA12

Darby PJ, Briet F, Harrington AM, Hare GMT, Mazer CD. Effect of CPB on Rat Renal Gene Expression and Blood Flow. CAS 62nd Annual Meeting, Toronto, Canada, June 2006.

Dattilo KM, Barr A, Tansey C, Matte-Martyn A, Diaz-Granados N, Herridge MS. The Predictive Value of Serial MOD Score in ARDS Patients. *Proceedings of the American Thoracic Society, Abstracts Issue*, Volume 2, 2005.

David JS, Tousignant CP, Bowry R. Tricuspid Annular Velocity in Cardiac Surgery Patients using Transesophageal Echocardiography. Congres National de la SFAR, Paris, France. September 2005.

Dhumne S, Kasodekar S, Balki M, Moore M, Carvalho JCA. Descriptors and management of patients requiring immediate post-partum blood transfusion: A chart review. *Anesthesiology* 2006; 104: Supp 1 A35.

Dhumne S, Kasodekar S, Moore M, Balki M, Carvalho J. Immediate post-partum blood transfusion: A chart review. *Can J Anesth* 2006.

Djaiani G. Epi-aortic scanning modifies surgical management of elderly patients during CABG surgery: a prospective randomized clinical trial. Key West Outcomes, 2006.

Djaiani G. Off-pump coronary bypass surgery is associated with reduced ischemic brain injury in patients with atheromatous aorta. Canadian Anesthesiologists' Society Annual Meeting, June 2006.

- Djaiani G.** An association of type of cardiac surgical procedures with acute confusional states after surgery in patients with and without atheromatous disease of the proximal thoracic aorta. *SCA*, 2006.
- EI-Beheiry H, Mak PHK, Wallace MC.** Pre-operative co-morbidities are predictors of death in young but not elderly patients with intracranial aneurismal rupture. *EJA* 2006; 23:A357
- Eng D, Bonin R, MacDonald JF, Orser BA.** A tonic inhibitory conductance in murine spinal neurons: A novel site for anesthetics. *Can J Anesth Supplement* Jun 2006 #26317
- Engelhardt T, Petroz G, McCheyne A, Bissonnette B.** Awareness during Pediatric Anesthesia – Myth or True Concern? *Anesthesiology* A969, 2006.
- Engelhardt T, McCheyne A, Luginbuehl I, Karsli C, Bissonnette B.** Clinical Validation of a Pharmacokinetic Model of Plasma Propofol Concentrations in Children. *Anesthesiology* A828, 2006.
- Friedman Z, Katznelson R, Devito I, Siddiqui N, Chan V.** Video assisted validation of an objective assessment system for residents manual skills in epidural analgesia. *Reg Anesth Pain Med* 2005; 30(3):A14
- Friedman Z, Katznelson R, Devito I, Siddiqui N, Chan V.** A video assisted assessment system for residents' skill in epidural anesthesia. *Can J Anesth* 2006; 53:23240
- Friedman Z, Qin J, Qin R.** Post-operative delirium monitoring by the Acute Pain Services. *Can J Anesth* 2006.
- Gagliese L, Weizblit N, Ellis E, Chan V.** A comparison of pain intensity scales in younger and older surgical patients. 11th World Congress on Pain, Sydney, Australia. Abstracts of the 11th World Congress of Pain, 2005; 343
- Gofeld M, Faclier G.** Lumbar zygapophysial joint radiofrequency denervation – targeting the best practice. *Pain Res Manag* 2006; 11:112.
- Guru V, Naimark D, Sooknan A, Omura J, Lin J, Miwa S, Guest C, Laflamme C, Cohen G, Christakis G, Goldman B, Fremes SE.** A randomized double-blind, placebo controlled single center trial to investigate the effect of intravenous N-acetylcysteine in preventing renal dysfunction following cardiopulmonary bypass in high risk patients. Submitted for review, Canadian Cardiovascular Society 2005; Society of Thoracic Surgeons.
- Han L, Slessarev M, Prisman E, Poublanc J, Mardimae A, Millar BA, Laperriere N, Fisher JA, Mikulis DJ, Menard C.** Radiotherapy for brain tumors may alter cerebrovascular physiology: Early observations and clinical implications. *Frontiers in Medicine*. Toronto, ON. May 2006.
- Herridge MS, Tansey CM, Matte-Martyn A, Diaz-Granados N, Mehta S, Guest C, Mazer CD, Al-Saidi F, Cooper AB, Stewart T, Barr A, Cook D, Slutsky AS, Cheung AM for the Canadian Critical Care Trials Group.** Four-year pulmonary, functional and QOL outcomes in ARDS survivors. *American Review of Respiratory and Critical Care Medicine* 2005.
- Herridge MS, Tansey CM, Matte-Martyn AL, Diaz-Granados N, Mehta S, Guest C, Mazer CD, Al-Saidi F, Cooper AB, Stewart T, Barr A, Cook D, Slutsky AS, Cheung AM for the Canadian Critical Care Trials Group.** Five-year pulmonary, functional and QOL outcomes in ARDS survivors. *American Thoracic Society*, 2006.
- Ioscovich A, Goldszmidt E, Fadeev A, Halpern S.** Peripartum anesthetic management of patients with aortic stenosis. *Anesthesiology* 2006; 104 Supp 1, A65.
- Ioscovich A, Halpern S.** Anesthesia for cesarean section in a patient with Holt-Oram Syndrome. *Anesthesiology* 2006; 104 Supp 1, A88.

Ioscovitch A, Briskin A, Halpern S, Abrahamov A, Zimran A, Elstein D. Uncomplicated outcome for pediatric patients with Gaucher Disease. Presented at the 20th International Congress of the Israel Society of Anesthesiologists. Tel Aviv, Israel. September 2005.

Ioscovitch A, Briskin A, Halpern S, Lebel E, Zimran A, Elstein D, Itzhaki M. Anesthesia for total hip replacement in Gaucher Disease. Presented at the 20th International Congress of the Israel Society of Anesthesiologists. Tel Aviv, Israel. September 2005.

Jan AWA, Evans AW et al. Assessment of bone mineral density using micro-computed tomography in the critical-sized calvarial defect model with and without hyperbaric oxygen therapy. UHMS Annual Scientific Meeting June 2006.

John J, Karsli C, Luginbuehl I, Bissonnette B. Pediatric Airway Management: Comparing the GlideScope® Video Laryngoscope with Direct Laryngoscopy. *Anesthesiology* 2006;A1151

Kasodekar S, Dhumne S, Balki M, Carvalho JCA. Prophylactic granisetron does not prevent nausea and vomiting during elective cesarean section under spinal anesthesia. *Anesthesiology* 2006; 104: Supp 1 SOAP A5.

Katz J, Schmid R, O'Leary G, Chan V, Halket E, Dzyuba M. Postoperative pain and morphine are reduced by perioperative multi-modal analgesia. *Can J Anesth* 2006; 53:26338

Katznelson R, Beattie S, Minkovich L, Fedorko L, Friedman Z, Djaiani G. Independent predictors of postoperative delirium after cardiac surgery. 62nd Annual Meeting of CAS, Toronto, Ontario. June 2006.

Katznelson R, Minkovich L, Beattie S, Fedorko L, Djaiani G, Fisher J. The efficacy of isocapnic hyperpnoea to accelerate recovery after general anesthesia with Sevoflurane. 62nd Annual Meeting of CAS, Toronto, Ontario. June 2006.

Katznelson R, Minkovich L, Beattie WS, Fedorko L, Fisher J. Isocapnic hyperpnoea and recovery time after anesthesia with anesthesia with sevoflurane. Canadian Anesthesiology Society Meeting, Toronto, Ontario. June 2006. Picked as "Top 50 Abstracts Category".

Kisilevsky M, Chudson C, Wong T, Mardimae A, Fisher J. Retinal vasoreactivity in hypercarbia-hypoxia. Institute of Medical Science, University of Toronto, Toronto, Ontario. May 2006.

Kummer C, Spencer F, Rizoli S, and Yee D. A review of traumatic airway injuries: implications in airway management, CJA 53(6):Annual Meeting Supplement, 2006.

Lau K, McCheyne A, Engelhardt T, Karsli C, Bissonnette B. Can Cerebral Blood Flow Velocity and BIS Detect Changes in Depth of Anesthesia in Children? *Anesthesiology* A1157; 2006.

Lau K, Engelhardt T, Luginbuehl I, Karsli C, Bissonnette B. Effect of Propofol Concentration Changes on Electroencephalogram and Bispectral Index in Children. *Anesthesiology* 2006;A552.

Lermitte J, Chung F, Assmann N, McCartney C. Systematic review of spinal anesthesia for ambulatory surgery. *EJA* 2006; 23:A47

Li J, Zhang N, Ye B, Wang Q and Lu W-Y. Non-steroidal anti-inflammatory drugs increase insulin release from B-cells by inhibiting ATP-sensitive potassium channel. Canadian Anesthesiologists' Society Annual Meeting 2006, Toronto, Ontario.

Lilker S, Balki M, Rofaeel A, Fallah S, Carvalho JCA. Fentanyl and sufentanil as adjuncts to bupivacaine for labor epidural analgesia: an equivalence study. *Anesthesiology* 2006;104: Supp 1 A53.

Lingard L, Regehr G, Epsin S, Devito I, Whyte S, Buller D, Sadovy B, Rogers D, Reznick R.

Perceptions of operating room tension across professions: building generalizable evidence and education resources. *Acad Med* 2005; 89(10 Suppl):S75-9.

Lingard L, Regehr G, Orser B, Baker GR, Whyte S, Epsin S, Reznick R, Bohnen J, Doran D.

Team talk: reducing communication failures through implementation of a preoperative team briefing. 11th European Forum on Quality Improvement in Health Care. Prague, Czech Republic. April 2006.

Lopez A, Hayes J, Crawford MW. The minimum effective dose of remifentanyl when co-administered with propofol for lumbar puncture in children: A dose-finding study. *Can J Anesth* 2006; 26:449.

Lopez A, Hayes J, Crawford MW. The minimum effective dose of remifentanyl when co-administered with propofol for lumbar puncture in children: A dose-finding study. University of Toronto Shields Research Day, May 2006

Lu W-Y, Xiang Y-Y, Ju W, Liu M, Orser BA. A-type gamma-aminobutyric acid receptor (GABAAR) and glutamic acid decarboxylase (GAD) in type ii pneumocytes *Can J Anesth Supplement* Jun 2006 #26167

Mak PHK, El-Beheiry H. Effects of Propofol on Heart Rate Variability in Elderly Patients. *J Neuro Anesth* 2005; 17:246

Mak PHK, El-Beheiry H, Wallace MC. Mortality predictors in ruptured intracranial aneurysms in elderly patients. *Can J Anesth* 2006; 53:26254

Mardimae A, Slessarev M, Han J, Prisman E, Poublanc J, Crawley A, Rodrigues L, Fisher JA, Mikulis D. The confounding effects of O₂ and CO₂-induced cerebrovascular reactivity as measured with BOLD MRI. Society of Magnetic Resonance in Medicine. Seattle, Washington. May 2006.

Mardimae A, Preiss D, Chennapragada SM, Rodrigues L, Han J, Fedorko L, Simons ME, Fisher JA. Disproportionate increase in cardiac output with exercise in patients with arteriovenous malformations. *Frontiers in Medicine*. Toronto, Ontario. May 2006.

Martin, A, McGrath, PA, Brown, SC, Katz, J. Anxiety sensitivity, fear of pain and pain-related disability in children and adolescents with chronic pain. *Pain Research & Management* 2006; 11(Supple B):64B

Martin L, Bonin R, Oh G, Orser BA. Alpha5-GABAARS are not required for memory impairment by ethanol in mice *Can J Anesth Supplement* June 2006 #26384

Martin LJ, Cheng VY, MacDonald JF, Wafford KA, Orser BA. Learning and memory impairment by the general anesthetic, etomidate is mediated by γ 5 GABAA receptors. *Society for Neuroscience* 2005; 611.11

McCheyne A, Engelhardt T, Karsli C, Bissonnette B., Luginbuehl I. Transient Hyperemic Response Test Differences during Propofol and Halothane in Pediatric Anesthesia. *Anesthesiology* 2006; A1158.

McCheyne Alan J., M.B. Ch.B., Engelhardt Thomas, M.D., Ph.D., Karsli Cengiz, M.D., Ph.D., Bissonnette Bruno, M.D., Luginbuehl Igor, M.D. The Effect of Halothane and Propofol on Acute Changes in Cerebral Blood Volume in Young Children. *Anesthesiology* 2006; A575.

McCheyne Alan J., M.B. Ch.B., Engelhardt Thomas, M.D., Ph.D., Karsli Cengiz, M.D., Luginbuehl Igor, M.D., Bissonnette Bruno, M.D. Cerebrovascular Hemodynamic Changes with Different Propofol Plasma Concentrations in Young Children. *Anesthesiology* 2006; A1728.

McGrath, PA, Brown, SC, Katz, J et al. Quantitative Sensory Testing in Children with Chronic Pain. *Pain Research & Management* 2006; 11(Supplement B):37B

McLaren A, Stewart DJ, Mazer CD, Hare GMT. Hemodilutional Anemia Increases HIF-1 α Protein in Rat Cerebral Cortex Keystone Symposium- Hypoxia. Breckenridge CO January 2006

McLaren A, Stewart DJ, Mazer CD, Hare GMT. Hemodilutional Anemia Increases HIF-1 α Protein in Rat Cerebral Cortex. CAS 62nd Annual Meeting, Toronto, Ontario. June 2006.

Meineri M, Van Rensburg A, Wasowicz M, McCluskey S, Wijesundera DA, Beattie S, Karkouti K. Implementation of a treatment protocol for excessively bleeding cardiac surgical patients may improve clinical outcomes. *Anesth Analg.* 2006; 102. SCA 2006; San Diego, California.

Meineri M, Van Rensburg A, Wasowicz M, Wijesundera DA, McCluskey S, Karkouti K (senior author). Determinants of complications with recombinant factor VIIa therapy in patients with excessive blood loss after cardiac surgery. *Anesth Analg.* 2006; 102. SCA 2006; San Diego, California.

Miller AL, Tousignant CP, Bowry R. Effect of Heart Rate on Tricuspid Annular Velocities in Cardiac Surgical Patients with Atrial Fibrillation. CAS 2006, Toronto, Ontario. June 2006

Miller AL, Tousignant CP, Bowry R. Effect of Heart Rate on Tricuspid Annular Velocities in Cardiac Surgical Patients with Atrial Fibrillation. SCA Update on Cardiopulmonary Bypass, Whistler, British Columbia, March 2006.

Miller, Tousignant, Bowry. Tricuspid annular velocities in patients with atrial fibrillation. CAS, Toronto, Ontario. June 2006. CPB meeting, Whistler, British Columbia. March 2006.

Minkovich L, Katznelson R, O'Leary G, Djaiani G, Beattie S. High incidence of peripheral CVP catheters malposition in composite resection of oral malignancies. 62nd Annual Meeting of CAS, Toronto, Ontario. June 2006.

Morgan P, Lam-Mc-Culloch J, Herold J, Tarshis J. Simulation performance checklist generation using the Delphi technique. Canadian Anesthesiologists Society Meeting 2006; Abstract 26303.

Naik VN, Savoldelli GL, Joo HS, Lorroway PG, Chandra DB, Chow R. Management of simulated oxygen failure: Is there a gap in curriculum? 6th International Meeting on Medical Simulation, San Diego, California. January 2006.

Naik VN, Savoldelli GL, Joo HS, Lorroway PG, Chandra DB, Chow R. Management of simulated oxygen failure: Is there a gap in curriculum? 62nd Annual Canadian Anesthesiologists' Society Meeting, Toronto, Ontario. June 2006.

Neill MG, McCluskey S, Lockwood GA, Fleshner NE. Predictors of transfusion requirement in open radical prostatectomy. CUA. June 2006.

Orser BA, Martin L, Cheng V, MacDonald JF. The amnestic and sedative-hypnotic properties of etomidate in mice can be dissociated based on GABA(A) receptor subtype pharmacology *Can J Anesth Supplement* June 2006: 26485

Prinzhausen H, Petroz G, Crawford MW. Preparation of the Dräger Primus anesthetic machine for malignant hyperthermia susceptible patients. *Anesthesiology* 2005; 103:A1276.

Rodin G, Gagliese L, Walsh A, Zimmermann C, Jones J, Rydall A. Psychosocial predictors of cancer pain interference. 11th World Congress on Pain, Sydney, Australia. Abstracts of the 11th World Congress of Pain, 321, 2005.

Rofaeel A, Lilker S, Goldszmidt E, Carvalho JCA. Combined spinal epidural analgesia in active labor: Effects of baricity of the intrathecal solution on block characteristics and maternal and fetal side effects. *Anesthesiology* 2005; 103:A592

Rofaeel A, Peng P, Louis I, Iskander L. QT interval and T wave dispersion associated with chronic methadone therapy. *Can J Anesth* 2006; 53:26398

Savoldelli GL, Naik VN, Park J, Joo HS, Chow R, Hamstra SJ. Non Technical Skills: The Effect Of Experience In Anesthesia Trainees. 6th International Meeting on Medical Simulation, San Diego, California. January 2006.

Savoldelli GL, Naik VN, Park J, Joo HS, Chow R, Hamstra SJ. The Value Of Debriefing In Simulation-Based Education: Oral Versus Video-Assisted Feedback. 6th International Meeting on Medical Simulation, San Diego, California. January 2006.

Shehata N, Wilson K, Mazer CD, Tomlinson G, Streiner D. Factors Affecting perioperative Transfusion Decisions for Coronary Artery Bypass Patients: A National Survey. CAS 62nd Annual Meeting, Toronto, Ontario. 2006.

Siddiqui N, Teresi J, Arzola C, Fox G. Hypoxemia on arrival to PACU: An observation audit. *Can J Anesth* 2006.

Singla N, Chung F, Singla S, Grenier A, Kutsogiannis D, Kett A, Pergolizzi J, Russo M. Efficacy of oral casopitant mesylate, a novel neurokinin-1 receptor antagonist, with intravenous ondansetron HCl in the prevention of postoperative nausea and vomiting (PONV) in high-risk patients. *EJA* 2006; 23(37):A614

Tangwiwat S, Manninen P, Lukitto K. Post-procedure pain management in patients following treatment for intracranial aneurysm. *Can J Anesth* 2006; 53:25944.

Tangwiwat S, Manninen P, Lukitto K. Use of induced hypotension in patients undergoing treatment for brain arteriovenous malformations. *Can J Anesth* 2006; 53:26371.

Tangwiwat S, Manninen P, Lukitto K. The assessment of post-procedure pain in patients following treatment for cerebrovascular lesions. *J Neurosurg Anesthesiol* 2005; 17:244

Tousignant CP, Bowry R. TEE Quiz, Case presentations and Unknowns. TGH Echo Symposium, Toronto, Ontario. November 2005.

Tousignant CP, Bowry R. Right Ventricular Strain: TEE vs TTE. CAS 2006, Toronto, Ontario. June 2006.

Tousignant CP. TEE symposium at CAS on advances in TEE in anesthesia. Tissue doppler and perioperative applications.

Tousignant CP. Right ventricular strain and strain rate: TEE vs TTE: A feasibility study. CAS, Toronto, Ontario, June 2006.

Tousignant CP. Tricuspid annular velocity in patients undergoing cardiac operation using transesophageal echocardiography. SFAR (Société Française d'anesthésie réanimation). Paris, France. September 2005.

Tsui AKY, Marsden PA, Mazer CD, Liu E, Baker AJ, Hare GMT. Anemia increases nNOS immunopositive cerebral cortical cells. CAS 62nd Annual Meeting, Toronto, Ontario. June 2006.

Tsui AKY, Marsden PA, Mazer CD, Liu E, Baker AJ, Hare GMT. Anemia increases nNOS immunopositive cerebral cortical cells. Keystone Symposium - Hypoxia Breckenridge, Colorado. January 2006

Venkataraman T, Hudson C, Flanagan JG, Rodrigues L, Mardimae A, Fisher JA. Retinal Arteriolar and Capillary Vascular Reactivity Assessment in Response to Isoxic Hypercapnia. Association for Research in Vision and Optalmology. Ft. Lauderdale, Florida. April 2006

Welke, TM, Naik VN, Savoldelli GL, Joo HS, Chandra DB, Houston PL, Chow R, LeBlanc VR. Individual Debriefing Vs. Computer Based Multimedia Instruction After Patient Crisis Simulation. 6th International Meeting on Medical Simulation, San Diego, California. January 2006.

Welke, TM, Naik VN, Savoldelli GL, Joo HS, Chandra DB, Houston PL, Chow R, LeBlanc VR. Individual Debriefing Vs. Computer Based Multimedia Instruction After Patient Crisis Simulation. 62nd Annual Canadian Anesthesiologists' Society Meeting, Toronto, Ontario. June 2006

Whitty R, Carvalho J. Elective cesarean section in a morbidly obese parturient: a case report. *Can J Anesth* 2006

Wong J, El-Beheiry H, Yogendran S, Rampersaud R, Chung F. Tranexamic acid reduces blood loss and transfusion in adult patients having spinal fusion surgery. *Can J Anesth* 2006; 53:26385

Wong S. Images in anesthesia: transesophageal echocardiogram images of anomalous circumflex artery. *Can J Anesth* 2006; 53:96

Xiang Y-Y, Ju W, Li J, Ye B, Liu M, Orser B and Lu W-Y. A-type gamma aminobutyric acid receptor (GABAAR) and glutamic acid decarboxylase (GAD) in type II pneumocytes. Canadian Anesthesiologists' Society Annual Meeting 2006, Toronto, Ontario.

Young Ju, Chiu M, Orser BA. Novel extrasynaptic GABAA receptor populations in murine spinal cord *Can J Anesth Supplement* June 2006: 26468

Yuan H, Chung F, Vairavanathan S, Yin L, Wong D. Elimination of preop testing in ambulatory surgery. *Can J Anesth* 2006; 53:26466

Zhang H, McCluskey S, Karkouti K, Grant D, Bevan D. Blood transfusion in live and deceased donor liver transplantation. Canadian Anesthesiologist's Society, Toronto, Ontario. June 2006

INVITED LECTURES**Angeles MCM**

24th Shields Research Day. Assessment of a New Technique of Glide Scope Intubation. University of Toronto, Toronto, ON. May 2006.

Canadian Anesthesiology Society Meeting. Assessment of a New Technique of Glide Scope Intubation. Toronto, ON. June 2006.

Angle P

Ontario College of Family Physicians' Meeting. An Examination of Issues and Barriers to Maternity Anesthesia Services in Ontario. Toronto, ON. November 2005.

Toronto Anesthetic Practice Meeting. Evidence-based Multi-modal Pain Therapy for Post C-Section Pain Relief Lecture. University of Toronto, Toronto, ON. November 2005.

Maternal Infant Research Unit Conference. Debate (Pro): Epidural Analgesia Should Be Recommended to all Primiparous Women in Labor. Centre for Research in Women's Health, University of Toronto, Toronto, ON. December 2005.

Ontario Women's Health Council Meeting. The New Labour Pain Scale (LPS): Description & Properties. Ottawa, ON. April 2006.

Society for Obstetric Anesthesia and Perinatology Meeting. The New Labor Pain Scale. Hollywood, FL. April 2006.

Canadian Anesthesiologists' Society Meeting. The New Labor Pain Scale: Description and Properties. Selected as one of the Top 50 Posters at the Meeting. Toronto, ON. June 2006.

Awad I

Anesthesia Practice Symposium. Workshop: Ultrasound for lower limb blocks. Toronto, ON. November 2005.

Regional Anesthesia Pain Medicine Meeting. Workshop: Ultrasound for Upper and Lower Limb Blocks. Niagara-on-the-Lake, ON. September 2005.

Anesthesia and Perioperative Medicine Conference. Workshop: Ultrasound Imaging for Upper and Lower Limb Blocks. Mont Tremblant, QC. February 2006.

Baker

Critical Care Medicine Symposium. The Brain Injured Patient. Toronto, ON. October 2005.

US/Canada Neurotrauma Residents Forum. Brain Injury Identification, Classification and Pathology. Toronto, ON. April 2006.

62nd Annual Meeting, Canadian Anesthesiologists' Society. Intensivist's Perspective in the Management of Cerebral Vasospasm. Toronto, ON. June 2006.

Balki M

3rd Annual Mount Sinai Hospital Obstetric Anesthesia Conference. Strategies to Reduce Post-partum Hemorrhage: Is Oxytocin the Drug? Toronto, ON. September 2005.

62nd Annual Meeting, Canadian Anesthesiologists' Society. Obstetric Workshop: Intravenous PCA for Labour. Toronto, ON. June 2006.

Beattie WS

Canadian Anesthesia Society Meeting. Evidenced based peri-operative risk reduction. Vancouver, BC. 2005.

Visiting Professor. University of Calgary, Department of Anesthesia, Calgary, AB. April 2006.

Anesthesia Update: Victoria General Hospital. Perioperative risk reduction. February 2006.

Day in Anesthesia. The Use or Disuse of Pre-operative Stress Testing to Delineate Peri-operative Risk. April 2006.

Canadian Anesthesia Society Meeting. Cardiovascular Section: Perioperative Management of Patients with Drug Eluting Stents for Non-cardiac Surgery June 2006.

Bevan DR

Invited Speaker. Annual Ontario Anesthesia Meeting. Anesthesia Assistants, Pro-Con Debate. Hamilton, ON. September 2005.

Bissonnette B

The South African Society of Anesthesiologists Meeting. Head Trauma in Children: Pathophysiology and Management. Cape Town, South Africa. 2005.

Reuniao Cientifica Sotierj Pediatria. Manuseio do Trauma Crânio-encefalico e Proteção Cerebral (Head Trauma Management and Protection Cerebral). University of Rio da Janeiro, Rio da Janeiro, Brazil. 2005.

Congresso Internacional de Especialidades Pediatricas. Criança 2005. Atualização em Neuroanestesia Pediatrica (Pediatric Neuroanesthesia: An update). Curitiba, Brazil. 2005.

Congresso Internacional de Especialidades Pediatricas. Criança 2005. A Termorregulação na Criança (Thermoregulation in children). Curitiba, Brazil. 2005.

Congresso Internacional de Especialidades Pediatricas. Criança 2005. Discussao de Casos Clinicos (Case Presentations and Management). Curitiba, Brazil. 2005.

Congresso Internacional de Especialidades Pediatricas. Criança 2005. Trauma cranio-encefalico no criança: Erros comuns no seu manuseio (Head trauma in children: Common errors in management). Congresso Internacional de Especialidades Pediatricas. Criança 2005. Curitiba, Brazil. 2005.

A criança sindromica (The child with a syndrome). Congresso Internacional de Especialidades Pediatricas. Criança 2005. Curitiba, Brazil. 2005.

Curso Internacional De Anestesia, En Alta Especialidad. Proteccion Cerebral: Que es nuevoy, que es no. (Cerebral protection: What's new, what's not?) Centro Medico Nacional '20 de Noviembre' University of Mexico, Mexico City, Mexico. 2005.

Curso Internacional De Anestesia, En Alta Especialidad. Neuroanestesia pediatrica: principios y practica. (Pediatric neuroanesthesia: Principles and practice.) Centro Medico Nacional '20 de Noviembre' University of Mexico, Mexico City, Mexico. 2005.

Curso Internacional De Anestesia, En Alta Especialidad. Trumatismo craneoencefalico pediatrico: Errores comunes en su manejo. (Head trauma in children: Common errors in management. Centro Medico Nacional '20 de Noviembre' University of Mexico, Mexico City, Mexico. 2005.

Association des Neuro-anesthésie et de Réanimation de Langue Française (ANARLF). Hémodynamique cérébrale de l'enfant et particularités cliniques. (Cerebral hemodynamics and clinical particularities in children). Paris, France. 2005.

Association des Anesthésistes Pédiatres de Langue Française (ADARPEF). Le sévoflurane 10 ans après: Existe-t-il une place pour les autres anesthésiques volatiles? (Sevoflurane 10 years after: Is there a place for other volatile anesthetic agents?). Paris, France. 2005.

Centre Hospitalier Universitaire Vaudois. Anesthésie Pédiatrique (Pediatric anesthesia). University of Lausanne, Lausanne, Switzerland. 2005.

Centre Hospitalier Universitaire Vaudois. TCC et protection cérébrale chez l'enfant. (Head trauma and cerebral protection in children). University of Lausanne, Lausanne, Switzerland. 2005.

American Society of Anesthesiologists Annual Meeting. Pediatric Head Trauma – Common errors in management. Hidden Dangers in Anesthesia for Children: What Anesthesiologists Need to Know. Atlanta, GA. 2005.

American Society of Anesthesiologists Annual Meeting. Pediatric Clinical Forum: Case presentation and discussion. Atlanta, GA. 2005.

Pediatric Anesthesia Conference. Controversies in Management of Acute Head Injury. Management of the Critically Ill Child – “Really Sick Kids”. The Hospital for Sick Children, University of Toronto. Toronto, ON. 2005.

Societa Italiana Di Anestesia Rianimazione Emergenza e Dolore. Principi Fondamentali: Revisione del Concetto di Danno Neuronale e di Apoptosis e Ricerche Nell'animale (Fundamental Principles: Reviews of Concept of Neuronal Damage and Apoptosis in Human and Animal Research). Congresso Nazionale, Napoli, Italy. 2005.

Societa Italiana Di Anestesia Rianimazione Emergenza e Dolore. Asfissia Perinatale Quale Modello di Fisiopatologia e di Trattamento. (Perinatal Asphyxia: An Hypothermia Model of Physiopathology and Treatment). Congresso Nazionale, Napoli, Italy. 2005.

Scuola di Specializzazione in Anestesia e Rianimazione. Cerebral Protection: The Bad, The Maybe and The Future. Università Degli Studi di Milano, Milan, Italy. 2005.

Aspen Anesthesia 2006: New Developments and Controversies. Syndromes – How to Avoid a Nightmare. Snowmass Village, CO. 2006.

Aspen Anesthesia 2006: New Developments and Controversies. Cerebral Protection: Is Hypothermia the Solution? Snowmass Village, CO. 2006.

Aspen Anesthesia 2006: New Developments and Controversies. Pediatric Head Trauma: Common Errors in Management. Snowmass Village, CO. 2006.

Advances in Clinical Anesthetic Practice. Syndromes – How to Avoid a Nightmare. Las Palmas Rancho Mirage, CA. 2006.

Advances in Clinical Anesthetic Practice. Pediatric Head Trauma – Minimizing Anesthetic Brain Injuries. Las Palmas Rancho Mirage, CA. 2006.

Austrian Postgraduate Assembly. Cerebral Protection: The Bad, The Maybe, The Future. Austria Congress, Vienna, Austria. 2006.

Austrian Postgraduate Assembly. Head Trauma in Children: Common Errors in Management. Austria Congress. Vienna, Austria. 2006.

XXXIIème Journées Méditerranéennes d'Anesthésie Réanimation. Sévoflurane 10 ans Après: Y a-t-il une Place Pour un Autre Agent Volatil? Marseille, France. 2006.

Congrès des Sociétés de Pédiatrie. Surveillance de la Profondeur de la Sedation. Lyon, France. 2006.

Bohn D

16th Annual ELSO Conference. Pulmonary Vasodilators: What's New? Role of HFOV in MAS. Houston, TX. September 2005.

Mechanical Circulatory Support in Pediatrics Conference. The Place of ECMO in the Era of Ventricular Assist Devices. Montreal, QC. September 2005.

Toronto Critical Care Medicine Symposium. Why HFO Works. Toronto, ON. October 2005.

Pediatric Cardiac Intensive Care Symposium 2005. PCICS Consensus: Myocarditis (moderator). Overview (with Lara Shekerdemian). South Beach, FL. December 2005.

ECMO Today: Innovation, Frontiers and Medical Controversies. ECMO Improves Survival in Congenital Diaphragmatic Hernia (pro/con debate). Aachen, Germany. December 2005.

22nd Annual CNMC Symposium. The Pediatric and Adult Intensive Care: State of the Art (moderator and speaker). Keystone, CO. February 2006.

16th Annual SEECMO Conference. Respiratory Support in Pediatric and Newborn Patients and Stop Bugging Me: Novel Therapies for Sepsis. Ann Arbor, MI. May 2006.

Paediatric Intensive Care 2006 (Irish Paediatric Anesthesia & Critical Care Society). Physicians Need Strict Protocols for Definition and Management of Paediatric Sepsis in 2006. (pro/con debate) Kerry, Ireland–June 2006.

Paediatric Intensive Care 2006 (Irish Paediatric Anesthesia & Critical Care Society). Salt, Water and Cerebral Oedema: Is it the Disease or is it the Doctor? Kerry, Ireland–June 2006.

Paediatric Intensive Care 2006 (Irish Paediatric Anesthesia & Critical Care Society). Optimal Configuration of Delivery of Paediatric Intensive Care in 2016–My Vision. Kerry, Ireland. June 2006.

Canadian Pediatric Society 83rd Annual Conference. Myths and Realities of Paediatric IV Fluid Management (Co-speaker). St. John's, NF. June 2006.

2nd Annual Toronto Symposium. Are We Ventilating the Lungs or the Right Heart? Contemporary Questions in Congenital Heart Disease. Toronto, ON. June 2006.

7th International Congress on Pediatric Pulmonology (CIPP VII). ECMO – Long Term Follow-up. Montreal, QC. July 2006.

7th International Congress on Pediatric Pulmonology (CIPP VII). Diaphragmatic Hernia – Pre and Postnatal. Montreal, QC. July 2006.

7th International Congress on Pediatric Pulmonology (CIPP VII). Ventilator Strategies (Chair). Montreal, QC. July 2006.

Bradley JW

Workshop on Clinical Skills Teaching (by tele-conference). Northern Ontario School of Medicine, ON. September 2005.

Workshop: Teaching On-Line -- Challenges and Motivators in Developing an On-Line Education Tool. Centre for Faculty Development, Faculty of Medicine, University of Toronto, Toronto, ON. November 2005.

Brull R

31st Annual meeting of the American Society of Regional Anesthesia. Intra-neural Electrical Stimulation and Ultrasound Detection of Intra-neural Injection. Palm Springs, CA. April 2006.

31st Annual meeting of the American Society of Regional Anesthesia. Workshop Leader, Ultrasound Imaging and Brachial Plexus Blockade. Palm Springs, CA. April 2006.

3rd Annual International Symposium on Ultrasound and Regional Anesthesia. Workshop, Phantom & Vascular Access. Toronto, ON. April 2006.

3rd Annual International Symposium on Ultrasound and Regional Anesthesia. Workshop, Femoral and Psoas Compartment Blocks. Toronto, ON. April 2006.

10th Annual Symposium: Controversies and Fundamentals in Regional Anesthesia. Neurological Complications of Regional Anesthesia. Hospital for Special Surgery, Weill Medical College of Cornell University, New York, NY. May 2006.

10th Annual Symposium: Controversies and Fundamentals in Regional Anesthesia. Panel Discussion, International Forum: Different Approaches to Anesthetic Management and Block Techniques. Hospital for Special Surgery, Weill Medical College of Cornell University, New York, NY. May 2006.

10th Annual Symposium: Controversies and Fundamentals in Regional Anesthesia. Workshop Leader, Ultrasound Techniques in Regional Anesthesia. Hospital for Special Surgery, Weill Medical College of Cornell University, New York, NY. May 2006.

Burjorjee J

Shields Annual Research Day. The Use of Simulation for Anesthesia Residents to Practice Teaching Medical Students. University of Toronto, Toronto, ON. May 2006.

Campbell FA

Perioperative Pain Management in Children and Adolescents. Department of Pediatric and Adolescent Gynecology. September 2005.

University of Toronto Anesthetic Practice Conference. The David Fear Lecture: Pediatric Pain Management in the New Millennium, Toronto, ON. November 2005.

Pediatric Anesthesia Conference. Debate: Should PCA be Managed by Non-anesthesia Personnel? SickKids and University of Toronto. Toronto, ON. November 2005.

Carvalho J

3rd Annual Mount Sinai Hospital Obstetric Anesthesia Conference. Chemical Prophylaxis of Gastric Aspiration: Facts and Fiction. Toronto, ON. September 2005.

American Society of Anesthesiologists 2005 Annual Meeting. Panel: Maternal Disasters: Neurologic Injury. Atlanta, GA. October 2005.

Brazilian Congress of Anesthesiology. PCA for Labor Analgesia, Epidural and Intravenous. Goiania, Brazil. November 2005.

Brazilian Congress of Anesthesiology. Panel: Labor Analgesia in Uncommon Situations, Morbid Obesity. Goiania, Brazil. November 2005.

Brazilian Congress of Anesthesiology. Lecture: Prophylaxis of Gastric Aspiration in Obstetrics: Where is the Evidence? Goiania, Brazil. November 2005.

MCP Rounds. Anesthesia in high risk obstetrics, Part II. Department of Obstetrics and Gynecology, Mount Sinai Hospital, Toronto, ON. December 2005.

Ultrasound Guided Regional Anesthesia and Hands-on Workshop. Department of Anesthesia, Women's College Hospital. Toronto, ON. February 2006.

2nd World Congress on Regional Anesthesia and Pain Therapy. What is the Best Choice of Vasoconstrictors for the Obstetric Patient? Rio de Janeiro, Brazil. March 2006.

2nd World Congress on Regional Anesthesia and Pain Therapy. Postdural Puncture Headache: An Overview. Rio de Janeiro, Brazil. March 2006.

2nd World Congress on Regional Anesthesia and Pain Therapy. Pro-Con: Regional Anesthesia Should Not Be Used for the Patient with Severe Preeclampsia. Rio de Janeiro, Brazil. March 2006.

2nd World Congress on Regional Anesthesia and Pain Therapy. Panel: New Developments in Spinal Anesthesia: Cesarean Section. Rio de Janeiro, Brazil. March 2006.

Toronto Anesthesia Symposium. Dr. Alexander Relle Memorial Lecturer: Changing Aspects of Obstetric Anesthesia. University of Toronto, Toronto, ON. April 2006.

3rd International Symposium on Ultrasound and Regional Anesthesia. Hands-on Workshop, Neuraxial Sonoanatomy. Toronto, ON. April 2006.

38th Annual Meeting, Society of Obstetric Anesthesia and Perinatology. Pro/Con Debate: A Non-particulate Antacid Should be Used Routinely in All Patients Undergoing Cesarean Section (Con). Hollywood, FL. April 2006.

38th Annual Meeting, Society of Obstetric Anesthesia and Perinatology. Breakfast with Experts: Case Discussion. Hollywood, FL. April 2006.

62nd Annual Meeting, Canadian Anesthesiologists' Society. Anesthetic Complications of Labor Analgesia. Toronto, ON. June 2006.

62nd Annual Meeting, Canadian Anesthesiologists' Society. Workshop: Ultrasound for Epidural Siting. Toronto, ON. June 2006.

62nd Annual Meeting, Canadian Anesthesiologists' Society. Moderator: Poster Discussion Session, Poster Discussion 13, Obstetric Group 2. Toronto, ON. June 2006.

Chan V

Canadian Anesthesiologists' Society 62nd Annual meeting. Workshop Leader, Lower Extremities Blocks Using Nerve Stimulation and Ultrasound — a hands-on workshop. Toronto, ON. June 2006.

Canadian Anesthesiologists' Society 62nd Annual Meeting. Workshop Leader, Comprehensive Thoracic Epidural and Upper/Lower Extremity Blocks Using Nerve Stimulation and Ultrasound Techniques — a hands-on workshop. Toronto, ON. June 2006.

Canadian Anesthesiologists' Society 62nd Annual meeting. Update on Using Ultrasound. Toronto, ON. June 2006.

Changing the Role of Ultrasound in Medicine Symposium. The Role of Ultrasound in Anesthesiology Practice, Transforming Medical Practice. Penn Club of New York, New York City, NY. June 2006.

Visiting Professor. Purpose Driven Regional Anesthesia: The Role of Ultrasound Imaging. Brigham and Women's Hospital, Department of Anesthesia, Boston, MA. June 2006.

Visiting Professor. Ultrasound Guided Regional Blocks. University of Manitoba, Department of Anesthesia, Winnipeg, MB. May 2006.

Visiting Professor. How Ultrasound Guided Vascular Access and Regional Anesthesia Can Improve Patient Outcome. University of Manitoba, Department of Anesthesia, Winnipeg, MB. May 2006.

Visiting Professor. Purpose Driven Regional Anesthesia – The Role of Ultrasound Imaging. Vanderbilt University Medical Center, Department of Anesthesiology, Nashville, TN. May 2006.

Workshop Leader. Regional Anesthesia and Acupuncture - Ultrasound Guided Peripheral Nerve Blocks. Vanderbilt University Medical Center, Department of Anesthesiology, Nashville, TN. May 2006.

Ultrasound Guided Nerve Blocks. Vanderbilt University Medical Center, Department of Anesthesiology, Nashville, TN. May 2006.

The Chicago Society of Anesthesiologists. Peripheral Nerve Block for Ambulatory Surgery. Chicago, IL. May 2006.

The Chicago Society of Anesthesiologists. Purpose Driven Regional Anesthesia: The Role of Ultrasound. Chicago, IL. May 2006.

Visiting Professor. Ultrasound Guided Nerve Blocks. Rush University Medical Center, Department of Anesthesiology, Chicago, IL. May 2006.

10th Annual Symposium on Regional Anesthesia: Controversies and Fundamentals in Regional Anesthesia. Workshop Leader, Ultrasound Techniques. Hospital for Special Surgery, New York, NY. May 2006.

10th Annual Symposium on Regional Anesthesia: Controversies and Fundamentals in Regional Anesthesia. Are the Benefits of Ultrasound Worth the Time, Effort and Cost? Hospital for Special Surgery, New York, NY. May 2006.

Advanced Regional Anesthesia 2006: Invasive Pain Management Techniques and Regional Anesthesia Hands-On Workshop. Workshop Leader, Ultrasound for Nerve Blocks. Department of Anesthesiology, Wayne State University, Detroit, MI. May 2006.

Advanced Regional Anesthesia 2006: Invasive Pain Management Techniques and Regional Anesthesia Hands-On Workshop. Using Ultrasound for Nerve Location. Department of Anesthesiology, Wayne State University, Detroit, MI. May 2006.

Advanced Regional Anesthesia 2006: Invasive Pain Management Techniques and Regional Anesthesia Hands-On Workshop. Conventional Block Technique vs. Ultrasound. Department of Anesthesiology, Wayne State University, Detroit, MI. May 2006.

3rd Annual International Symposium on Ultrasound and Regional Anesthesia. Workshop, Interscalene and Supraclavicular Blocks. Toronto, ON. April 2006.

3rd Annual International Symposium on Ultrasound and Regional Anesthesia. Literature Review: What's New. Toronto, ON. April 2006.

3rd Annual International Symposium on Ultrasound and Regional Anesthesia. Workshop: Femoral and Psoas Compartment Blocks. Toronto, ON. April 2006.

31st Annual Meeting of the American Society of Regional Anesthesia. Workshop Leader, Ultrasound Guided Nerve Blocks: Introduction to Ultrasound Imaging. Palm Springs, CA. April 2006.

31st Annual meeting of the American Society of Regional Anesthesia. Workshop Moderator, Ultrasound Guided Nerve Blocks. Palm Springs, CA. April 2006.

31st Annual meeting of the American Society of Regional Anesthesia. Ultrasound vs Nerve Stimulator for Peripheral Nerve Blocks, Pro side. Palm Springs, CA. April 2006.

31st Annual meeting of the American Society of Regional Anesthesia. Workshop, Ultrasound Guided Nerve Blocks: Phantom Target Practice. Palm Springs, CA. April 2006.

31st Annual meeting of the American Society of Regional Anesthesia. The Role of Ultrasound in Modern Regional Anesthesia: Current and Future Roles. Palm Springs, CA. April 2006.

31st Annual meeting of the American Society of Regional Anesthesia. Ultrasound Guided Nerve Blocks: Introduction to Ultrasound Imaging. Palm Springs, CA. April 2006.

Toronto Anesthesia Symposium. Ultrasound for Regional Anesthesia. Toronto, ON. April 2006.

Kentucky Society of Anesthesiologists Annual Spring Meeting. Problem Based Learning Discussion: Ultrasound Guided Regional Anesthesia. Covington, KY. March 2006.

Kentucky Society of Anesthesiologists Annual Spring Meeting. Ultrasound Guided Peripheral Nerve Blocks. Covington, KY. March 2006.

Kentucky Society of Anesthesiologists Annual Spring Meeting. Continuous Peripheral Nerve Blocks. Covington, KY. March 2006.

2nd World Congress on Regional Anesthesia and Pain Therapy. Stimulating vs. Non Stimulating Catheters. Rio de Janeiro, Brazil. March 2006.

2nd World Congress on Regional Anesthesia and Pain Therapy. Applying Ultrasound to Regional Anesthesia. Rio de Janeiro, Brazil. March 2006.

2nd World Congress on Regional Anesthesia and Pain Therapy. Neuraxial Opioid Analgesia. Rio de Janeiro, Brazil. March 2006.

2nd World Congress on Regional Anesthesia and Pain Therapy. Workshop Leader, Use of Ultrasound for Regional Anesthesia. Rio de Janeiro, Brazil. March 2006.

Continuing Medical Education Course. Ultrasound Guided Nerve Block Techniques and CVC Placement for the Anesthesiologist. Gulfcoast Ultrasound Institute, Inc., St. Pete Beach, FL. February 2006.

Visiting Professor. The Basics of Ultrasound Imaging. Hospital Authority, Hong Kong, China. January 2006.

Visiting Professor. Ultrasound Guided Brachial Plexus Blocks. Hospital Authority, Hong Kong, China. January 2006.

Visiting Professor. Ultrasound Guided Lumbosacral Blocks. Hospital Authority, Hong Kong, China. January 2006.

Visiting Professor. Can Ultrasound Guidance Improve Block Outcome? Hospital Authority, Hong Kong, China. January 2006.

Workshop leader: Queen Mary Hospital, Queen Elizabeth Hospital, United Christian Hospital, Kwong Wah Hospital, Caritas Medical Centre, Tuen Mun Hospital, Alice Ho Miu Ling Nethersole Hospital, Prince of Wales Hospital, North District Hospital. January 2006.

Visiting Professor. What You See is What You Get: Ultrasound Imaging for Regional Anesthesia. Department of Anesthesiology, University of Alabama, Birmingham, AL. January 2006.

Visiting Professor. Does Ultrasound Guided Nerve Block Improve Patient Outcome? Department of Anesthesiology, University of Alabama, Birmingham, AL. January 2006.

59th Postgraduate Assembly in Anesthesiology. Improving Your Success Rate: Ultrasound Imaging for Regional Anesthesia. The New York State Society of Anesthesiologists, Inc., New York, NY. December 2005.

Visiting Professor. What You See is What You Get: Ultrasound Imaging for Regional Anesthesia. Department of Anesthesia, Queen's University, Kingston, ON. December 2005.

Workshop Leader. Challenging Cases in Regional Anesthesia. Department of Anesthesia, Queen's University, Kingston, ON. December 2005.

The Varkey Continuous Catheter Regional Anesthesia and Anatomy Workshop. Workshop Leader, Pig Lab. University of Western Ontario, London, ON. December 2005.

The Varkey Continuous Catheter Regional Anesthesia and Anatomy Workshop. Ultrasound Imaging for Regional Anesthesia and Vascular Access. University of Western Ontario, London, ON. December 2005.

4th International Conference on Pain Control and Regional Anesthesia. Peripheral Blocks for Ambulatory Surgery. Cape Town, South Africa. November 2005.

4th International Conference on Pain Control and Regional Anesthesia. Ultrasound Imaging in Regional Anesthesia. Cape Town, South Africa. November 2005.

4th International Conference on Pain Control and Regional Anesthesia. Workshop Leader, How to Set Up an Acute Pain Service – North American Perspective. Cape Town, South Africa. November 2005.

4th International Conference on Pain Control and Regional Anesthesia. Workshop Leader, Imaging Techniques in Regional Anesthesia – Practical Issues. Cape Town. South Africa. November 2005.

4th International Conference on Pain Control and Regional Anesthesia. Speaker, Cost-effectiveness of Ropivacaine and Levobupivacaine in Postoperative Pain. Cape Town, South Africa, November 2005.

Ultrasound for Regional Anesthesia and Vascular Access. North York General Hospital, Department of Anesthesia, North York, ON. November 2005.

Advances in Physiology and Pharmacology in Anesthesia and Critical Care. Workshop Leader, Infraclavicular and Axillary Blocks. Wake Forest University, Hilton Head, SC. November 2005.

Advances in Physiology and Pharmacology in Anesthesia and Critical Care. Ultrasound for Regional Anesthesia and Vascular Access. Wake Forest University, Hilton Head, SC. November 2005.

56th American Society of Anesthesiologists Annual Meeting. Moderator, Ultrasound Guided Techniques for Regional Anesthesia. Atlanta, GA. October 2005.

56th American Society of Anesthesiologists Annual Meeting. Workshop Leader, Peripheral Nerve Blocks. Atlanta, GA. October 2005.

56th American Society of Anesthesiologists Annual Meeting. Workshop Leader, Continuous Nerve Blocks for Pain Control: In the Hospital and Beyond. Atlanta, GA. October 2005.

56th American Society of Anesthesiologists Annual Meeting. Ultrasonographic Anatomy and Guided Blocks of the Peripheral Nerve. Atlanta, GA. October 2005.

First Annual Meeting of the Orthopedic Anesthesia, Pain and Rehabilitation Society. Workshop Leader, Nerve Location Using Ultrasound. Atlanta, GA. October 2005.

First Annual Meeting of the Orthopedic Anesthesia, Pain and Rehabilitation Society. Principles of Nerve Location Using Ultrasound. Atlanta, GA. October 2005.

12th Annual Regional Anesthesia and Pain Medicine 2005 Conference. Workshop Leader, Intensive Ultrasound. Niagara-on-the-Lake, ON. October 2005.

12th Annual Regional Anesthesia and Pain Medicine 2005 Conference. Peripheral Stimulating Catheters. Niagara-on-the-Lake, ON. October 2005.

12th Annual Regional Anesthesia and Pain Medicine 2005 Conference. Avoiding Neurologic Injury – the Role of Ultrasound Imaging. Niagara-on-the-Lake, ON. October 2005.

12th Annual Regional Anesthesia and Pain Medicine 2005 Conference. Workshop Leader, Intensive Upper Limb. Niagara-on-the-Lake, ON. September 2005.

XI European Society of Regional Anesthesia Local Meeting. Workshop Leader, Ultrasound Applied to Brachial Plexus Block. Santiago de Compostela, Spain. September 2005.

XI European Society of Regional Anesthesia Local Meeting. Workshop Leader, Ultrasonography in the Practice of Perineural Blocks. Santiago de Compostela, Spain. September 2005.

XI European Society of Regional Anesthesia Local Meeting. Ultrasonography and Plexus Blocks. Santiago de Compostela, Spain. September 2005.

XI European Society of Regional Anesthesia Annual Meeting. Workshop Leader, Ultrasound guided upper limb blocks in adults and children. Berlin, Germany. September 2005.

XI European Society of Regional Anesthesia Annual Meeting. Workshop Leader, Ultrasound guided lower limb blocks. Berlin, Germany. September 2005.

XI European Society of Regional Anesthesia Annual Meeting. Peripheral blocks in ambulatory surgery. Berlin, Germany. September 2005.

XI European Society of Regional Anesthesia Annual Meeting. Perineural and incisional techniques at home. Berlin, Germany. September 2005.

XI European Society of Regional Anesthesia Annual Meeting. Imaging techniques in regional anesthesia. Berlin, Germany. September 2005.

Chung F

34th Congress of Anesthesiologists. Postoperative Pain Management Strategies for Ambulatory Surgical Patients. Buenos Aires, Argentina. September 2005.

34th Congress of Anesthesiologists. Speaker, Sleep Apnea and Anesthesia. Buenos Aires, Argentina. September 2005.

34th Congress of Anesthesiologists. Adverse Events in Ambulatory Surgery, What Do We Know? Buenos Aires, Argentina. September 2005.

CAS Atlantic Regional Meeting. Ambulatory Anesthesia: What Are the Issues? Saint John, NB. September 2005.

Anesthesiology Association of Cundinamarca. Admission Criteria for Ambulatory Care Facility by Based Evidence Medicine. Bogota City, Columbia. November 2005.

Anesthesiology Association of Cundinamarca. Home Readiness for Ambulatory Surgery. Bogota City, Columbia. November 2005.

Anesthesiology Association of Cundinamarca. Postoperative Pain Management for Ambulatory Patients. Bogota City, Columbia. November 2005.

Difficult Intubation and Obstructive Sleep Apnea. St. Joseph's Hospital, Toronto, ON. March 2006.

21st Annual Meeting of the Society for Ambulatory Anesthesia. Postoperative Assessment Tools. Washington, DC. May 2006.

21st Annual Meeting, Society for Ambulatory Anesthesia. Novel Pain Therapy. Washington, DC. May 2006.

17th Annual Meeting, British Association of Day Surgery. Adverse events in ambulatory care. Glasgow, Scotland, June 2006.

Canadian Anesthesiologists' Society 62nd Annual Meeting. ASA Guidelines on OSA Patients. Toronto, ON. June 2006.

Cooper RM

Society for Airway Management, Annual Scientific Meeting. 1. Strategies for Extubation of the Difficult Airway. 2. Chair/Presenter, Consensus Panel: Should we ventilate during Rapid Sequence Intubation? 3. Airway Workshop: Glidescope. Washington, DC. September 2005.

Airway Management Symposium. Managing the Difficult Extubation. St. Gallen, Switzerland. November 2005.

Nursing Grand Rounds, Toronto General Hospital. Defibrillation, Cardioversion and Pacing. Toronto, ON. January 2006.

Winterlude Anesthesia Symposium. Airway Management Controversies. University of Ottawa, Ottawa, ON. February 2006.

Annual Meeting of Diagnostic Ultrasound Corporation. Laryngoscopy: the Role of the GlideScope® in Airway Management. New Orleans, LA. February 2006.

Hands-on Workshop.. 1. Tracheal Extubation following Difficult Laryngoscopy. 2. The GlideScope® Videolaryngoscope. Vienna, Austria. March 2006.

Toronto Anesthesia Symposium. Update on Advanced Life Support Guidelines-2006. Toronto, ON. April 2006.

European Society of Anaesthesiology. Managing the Difficult Extubation. Madrid, Spain. June 2006.

Canadian Anesthesiologists Society Annual Meeting. Poster Session, Chairman. Toronto, ON. June 2006.

Canadian Anesthesiologists Society Annual Meeting. Airway Management Symposium Chairman. Toronto, ON. June 2006.

Cox P

PALISI Meeting (Principle Investigators Meeting). Montreal, QC. September 2005.

7th National Congress on Pediatric Critical Care. High Frequency Oscillatory Ventilation – applied physics; Surviving Sepsis (Plenary); Guidelines, Putting Evidence into Practice; Difficulties in Establishing Brain Death (Is My Patient Dead?) (Symposium); Ventilator Strategies for Optimizing Oxygenation. Pune, India. October 2005.

The 8th UAE International Pediatric Congress. Medical Error and quality management in the CCU; HFO and Lung recruitment. Dubai, UAE. January 2006.

Canadian Critical Care Meeting. ECMO - Use as Emergency Resuscitation. Whistler, BC. February 2006.

Dattilo K

American Thoracic Society 2005 International Conference. The Predictive Value of Serial MOD Score in ARDS Patients. 2005.

University of Toronto Critical Care Medicine Resident Research Day 2005 Clinical Research Session. The Predictive Value of Serial MOD Score in ARDS Patients. Toronto, ON. 2005.

Davies S

Southlake Regional Health Centre. Management of post-partum hemorrhage. Newmarket, ON. September 2005.

Devito I

3rd Annual Mount Sinai Hospital Obstetric Anesthesia Conference. Herbal medication in pregnancy and regional anesthesia. Toronto, ON. September 2005.

Djaiani G

Invited Lecture. Anesthesia Update. Diastolic dysfunction in the cardiac operating room; why should we care? Mount Sinai Hospital, St. Thomas, NY. 2006.

Engelhardt T

Research in Progress Meeting. The effect of propofol infusion on plasma cyclic GMP concentrations in anesthetized children. Department of Anesthesia, University of Toronto, Presented as well at The Surgical Services Grand Rounds 2006 Laboratory and Clinical Science Research Competition, Sick Kids Hospital. Toronto, ON. May 2006.

Evans AW

Invited Lecture. Michener Institute School of Respiratory Therapy. Hyperbaric Oxygen Therapy. November 2005.

Invited Lecture. Prog-O Rounds (Telemedicine)–Vicarious Experience of the Pmh Late Effects Clinic. December 2005.

Invited Lecture. CTV National News Health Segment–With Avis Favaro. Hyperbaric Oxygen Therapy in Diabetic Limb Sparing. March 2006.

Invited Speaker. Ontario Med Association. Presentation (As Chair) of the Permanent Section On Hyperbaric Medicine to the Central Tariff Committee. April 2006.

Invited Lecture. Ontario Respiratory Care Society. Hyperbaric Oxygen 101. April 2006.

Invited Lecture. University of Toronto Faculty of Medicine Dept of Community & Family Medicine Conference [Primary Care Today]. Hyperbaric Medicine -What's in it for your Patients in 2006? May 2006.

Invited Lecture. Ontario Association For Amputee Care. Hyperbaric Oxygen; It's Role in the Management of Dysvascular and Diabetic Limbs. May 2006.

Ford MK

University of Toronto Shields Annual Research Day. Predictors of Performance in Advanced Cardiac Life Support (ACLS) Simulation. Department of Anesthesia, Toronto, ON. May 2006.

Gagliese L

Research Day for the Health Sciences. Growing Pain: What they don't teach you in grad school. McMaster University, Hamilton, ON. September 2005.

UHN Research Day. Quantitative sensory testing of pain sensitivity in older men. Toronto, ON. October 2005.

Breast Cancer Research Rounds. Pain following breast cancer surgery: Pilot Data. Princess Margaret Hospital, Toronto, ON. November 2005.

University of Toronto Centre for Studies in Pain Research Day. Age-related patterns in cancer pain. Toronto, ON. December 2005.

Annual Meeting of the Canadian Association of Psychosocial Oncology. Giving voice to pain: Pain in acutely confused cancer patients. Montreal, QC. May 2006.

Annual Meeting of the Canadian Pain Society. The assessment of postoperative pain in the elderly. Edmonton, AB. June 2006.

Annual Meeting of the Canadian Pain Society. Pain and sleep across the lifespan. Edmonton, AB. June 2006.

Gardner-Nix J

11th World Congress for the Association for the Study of Pain. Mindfulness-based Chronic Pain Management courses, (based on Mindfulness-based Stress Reduction): Strategies and Outcomes. Poster Presentation. Sydney, Australia. August 2005.

Symposium for Burn Nurses. A Renewed Look at Burn Pain Management: Latest Approaches. Toronto, ON. September 2005.

Women's Health Matters Forum and Expo. I can't take it! Dealing with pain: using the mind to heal the body. Toronto, ON. January 2006.

Update on Chronic Pain Management at Update 2006 Conference for Pharmacists. Ottawa Civic Hospital, Ottawa, ON. February 2006.

Workshop at the Canadian Pain Society Conference. Mindfulness-based Chronic Pain Management Courses (based on Mindfulness-based stress reduction): Strategies and Outcomes. Edmonton, AB. June 2006.

Gofeld M

Neuromodulation Expert Panel. Spinal Cord Stimulation for Failed Back Surgery Syndrome. Tel Aviv, Israel. November 2005.

Israel Pain Association Annual Congress. Radiofrequency – Past, Present and Future. Dead Sea, Israel. November 2005.

International Forum of Pain Medicine. Radiofrequency procedures for the treatment of lumbar spine pain. Guadalajara, Mexico. May 2006.

International Forum of Pain Medicine. Requirements for setting up a pain center. Guadalajara, Mexico. May 2006.

24th Shields Research Day – Research in Progress. Ilioinguinal Block in Adults? University of Toronto, Toronto, ON. May 2006.

2nd International Forum on Pain Medicine “Medical Specialties meet Pain Medicine”. Radiofrequency Denervation of Lumbar Zygapophysial Joints – Targeting the Best Practice. Guadalajara, Mexico, May 2006.

Canadian Anesthesiology Society Meeting. Radiofrequency Denervation of Lumbar Zygapophysial Joints – Targeting the Best Practice. Toronto, ON. June 2006.

Radiofrequency Denervation of Lumbar Zygapophysial Joints - Targeting the Best Practice, Edmonton, AB. June 2006.

Goldszmidt E

Anesthetic Practice. Epidural Troubleshooting. University of Toronto, Toronto, ON. November 2005.

Toronto Anesthesia Symposium. Unexpected Cardiac Arrest on the Labor Floor. University of Toronto, Toronto, ON. April 2006.

Halpern S

Anaesthetic Practice 2005. Labour analgesia: Optimizing labour analgesia/minimizing its impact on delivery. University of Toronto, Toronto, ON. 2005.

Anaesthetic Practice 2005. Labour analgesia: C.R.A.P. Detectors: the ABC's of figuring out what to believe in your journals. University of Toronto, Toronto, ON. 2005.

The 20th International Congress of the Israel Society of Anesthesiologists. Dan Panorama. Anesthesia for Cesarean Section—A look at the evidence. Tel Aviv, Israel. September 2005.

Is Regional Anesthesia safer than General Anesthesia for cesarean section? New York School of Medicine, New York, NY. January 2006.

Hare GMT

Toronto Critical Care Symposium. Anemia-Induced Brain Injury. Toronto, ON. October 2005.

CAS Atlantic Regional Meeting. Potential Mechanisms of Anemia Induced Cerebral Injury: Can Blood Conservation Reduce Morbidity and Mortality. Saint John, NB. September 2005.

Hayes J

Pediatric Anesthesia Conference. Duchenne Muscular Dystrophy: Are vapours a problem? Toronto, ON. November 2005.

Holtby HM

Difficult Pediatric Cases. Detroit Children's Hospital, Detroit, MI. September 2005.

Pediatric Anesthesia Conference. Anesthesia and Congenital Heart Disease. Toronto, ON. November 2005.

PCICS. Anesthetic Issues in cardiac catheterization. Miami, FL. December 2005.

PCICS. Pro/con Debate The Use of Ultra-sound for Central Venous Cannulation. Miami, FL. December 2005.

PCICS. The Use of Oral Sildenafil in Children with Primary Pulmonary Hypertension. Miami, FL. December 2005.

Pandit Lecture. Anesthesia and Congenital Heart Disease. Grand Rounds Dept of Anesthesiology Michigan State University, Lansing, MI. May 2006.

Visiting Professor. Dept of Anesthesiology, University of Michigan, Ann Arbor, MI. May 2006.

Houston P

The Royal College MCQ Examination in Anesthesia - How, What and Why? Canadian Anesthesiologists Society Meeting. Vancouver. BC. June, 2005.

Idestrup C

Pain Management Symposium. Markham Stouffville Hospital, Regional Anesthesia and Pain Management. Markham, ON. May 2006.

Jadad AR

La digitación en radiodiagnóstico: Nuevas fronteras en la era de Internet. Tenerife. July 2005.

La eSalud: que sera? (eHealth: what will happen?). Universidad Internacional de Andalucia, Malaga. July 2005.

El Centro para la Innovacion Global en eSalud (The Centre for Global eHealth Innovation). Universidad Internacional de Andalucia. July 2005.

Visioning Session on the South Health Campus. Calgary Health Region. International trends in healthcare delivery: a view from the Internet age. Calgary, AB. July 2005.

Accelerating the transformation of the health system in the age of the Internet. Centre for Health Informatics, University of New South Wales. New South Wales, Australia. August 2005.

11th World Congress on Pain. Role of the Internet in pain management and research. Sydney, Australia. August 2005.

Special Recognition Lecture, Fundacion Santa Fe de Bogota, Colombia. The Future of the Health System in the Age of the Internet: the Emergence of eHealth. Bogota, Colombia. September 2005.

The Centre for Global eHealth Innovation. International University of Andalusia and Technological Park of Andalusia. September 2005.

HP Health Symposium. Transforming the Relationship with patients in the Age of the Internet: Will We Meet Our Children's expectation? Las Vegas, Nevada. September 2005.

International Conference on Chronic Disease Management, Videoconference. Chronic disease management in the age of the Internet. Calgary, AB. September 2005.

Annual Meeting of the Spanish Society for Palliative Care. Supportive and palliative care in the age of the Internet. September 2005.

International Conference on Humanization of the Health System. Intercontinental collaboration: opportunities for eHealth. Gijon, Spain. October 2005.

South Health Campus Retreat Keynote at Calgary Health Region. Speech 'Shaping the Future.' Calgary, AB. November 2005.

Centre for the Study of Pain Symposium. Supportive and end of life care in the age of the Internet: towards and high-tech high-touch world, Psychosocial Impact of Pain on the Individual and Family. Hospital for Sick Children, Toronto, ON. November 2005.

International Conference on the Future of the Health System. The future of the health system in the Hispanic world: a view from the Internet age; The Global eHealth Innovation Network: opportunities to collaborate with other regions of the world. Universidad Austral, Pilar, Argentina. November 2005.

Instituto Carlos III. Transforming the health system in the age of the Internet. Madrid, Spain. November 2005. EuroMed 2005. The Global eHealth Innovation Network: joining forces to transform the health system, worldwide. Barcelona, Spain. November 2005.

Health and Wellness in The Food Industry, Canada Forum. Kids' Nutrition and Childhood Obesity in the age of the Internet: How the Food Industry Can Help Kids Grow Up Healthy. Functional Foods, Nutraceuticals and Health-Driven Food Initiatives. November 2005.

Annual Conference of the Colombian Pediatric Society. Video presentation with Colombia. Hacia la eSalud: oportunidades para transformar el sistema sanitario en el siglo 21. November 2005.

The Science & Art of Pain and Symptom Management Conference. Pain Relief in the Age of the Internet. Toronto, ON. November 2005.

Ontario Soil and Crop Improvement Association, Annual Meeting. Agriculture, Consumers and Health: A Needed Partnership for the Information Age. Niagara Falls, ON. February 2006.

Eastern Ontario Crop and Soil Association Annual Conference. Food, Health and the Internet. Ottawa, ON. February 2006.

What is knowledge management? (Que es la gestion del conocimiento?). Valencia, Spain, March 2006.

John J

Research in Progress Meeting. Pediatric airway management: Comparing the GlideScope video laryngoscope with direct laryngoscopy. Department of Anesthesia, University of Toronto, Toronto, ON. May 2006.

Joo HS

Anaesthetic Practice 2005. Airway Gadgets and Difficult Airway Simulation. Toronto, ON. November 2005.

Canadian Anesthesiologists' Society Annual Meeting. Difficulty Airway Simulator. Toronto, ON. June 2006.

Kanellakos G

Toronto Anesthesia Symposium 2005. Demonstrator: How to Properly Use New and Old Bronchial Blockers. Toronto, ON. 2005.

Canadian Anesthesiologists' Society 61st Annual Meeting. Transesophageal Echocardiography in Mediastinal Mass Resection. 2005.

Karkouti K

Invited Speaker. University of Toronto City-Wide Anesthesia Rounds. The Off-Label Use of Recombinant Factor VIIa. University Health Network, Toronto General Hospital, Toronto, ON. 2005.

Massive Transfusion Summit. Management of Blood Loss in Spine Surgery. Banff, Canada. 2005.

Visiting Professor. St. Paul's Hospital, University of British Columbia. 1. Significance of Massive Blood Transfusion as a Complication of Cardiac Surgery. 2. Use of rFVIIa in Cardiac Surgery. 2006.

Toronto Anesthesia Symposium. Toronto, ON. Should You Consider Factor VIIa in Bleeding Patients, and if Yes, When? April 2006.

Karski J

Third Annual TGH Perioperative TEE Symposium. TEE in aortic dissection. Toronto, ON. November 2005.

Third Annual TGH Perioperative TEE Symposium. TEE and LV function – workshop. Toronto, ON. November 2005.

Karsli C

Guest Faculty, Pediatric Anesthesiology 2006 Meeting. Workshop: Difficult Airway Management. Sanibel Harbor Resort and Spa, Fort Myers, FL. February 2006.

Invited Lecturer, Toronto Anesthesia Symposium 2006. The Child with Known or Suspected Difficult Airway for Dental Surgery. Toronto, ON. April 2006.

Katz J

Guest Lecturer for Health Psychology Seminar. Psychology Department, York University. Transition of Acute Postoperative Pain to Chronic Pain I. Toronto, ON. February 2006.

Guest Lecturer for Health Psychology Seminar. Psychology Department, York University. Transition of Acute Postoperative Pain to Chronic Pain II. Toronto, ON. February 2006.

Kavanagh B

Society of Critical Care Medicine Refresher Course Lectures. Ventilation-Perfusion Matching; Mechanical Ventilation. Chicago, IL. August 2005.

Summer SMART Conference (Anesthesiology and Critical Care). Hypocapnia; Hypercapnia. Sardinia, Italy. September 2005.

McGill University and Montreal Children's Hospital. Carbon Dioxide in Critical Care; Normalizing Parameters in Acute Illness. Montreal, QC. September 2005.

Universite de Montreal Hopital Maisonneuve-Rosemount. CO₂ in Acute Illness. Montreal, QC. September 2005.

7th Latin American Pediatric Intensive Care Congress. Acute Lung Injury, Hypercapnia, Biomarkers of Injury. Cancun, Mexico. October 2005.

Society of Critical Care Medicine Refresher Course Lecture: Acute Respiratory Distress Syndrome; Invited Lecture: Lung Development and ARDS in Children. San Francisco, CA. January 2006.

Alberta Society of Critical Care Medicine. Conference Talk: New Concepts of Atelectasis; After-Dinner Speech: The Importance of Clinical Trials. Lake Louise, AB. January 2006.

University of BC and Vancouver Children's Hospital, Vancouver, BC. (Visiting professor to the Department of Pediatrics, University of British Columbia, and the British Columbia Pediatric Society). February 2006.

Department of Pediatrics Grand Rounds: Normalizing Parameters in Acute Illness. Critical Care Rounds: Atelectasis in the Critically Ill. Vancouver, BC. February 2006.

23rd Annual Meeting – Japanese Society of Intensive Care Medicine. Plenary Address – Hypercapnia in Critical Care; Symposium Address – Development of Pediatric Anesthesia and Critical Care. Osaka, Japan. March 2006.

Grand Rounds. (Invited Speaker). University of Alabama, Department of Anesthesia. Birmingham, AL. March 2006.

National Institutes of Health (Intensive Care). Atelectasis in Critical Care. Bethesda, MA. April 2006.

Grand Rounds (Invited Speaker). University of Michigan, Department of Pediatrics. Ann Arbor, MI. April 2006.

American Thoracic Society, Postgraduate Symposium – 'Hot Topics in Pediatric ICU': (Organizer, Co-chair, Speaker); Critical Care Track Symposium – 'Debates in EBM': (Organizer, Co-chair, Speaker); Invited talk: CO₂ and Lung Injury. San Diego, CA. May 2006.

Canadian Critical Care Trials Group. Residents Day: Publishing your Paper. Toronto, ON. June 2006.

Department of Anesthesia Grand Rounds (Invited Speaker). Massachusetts General Hospital, Harvard University. Boston, MA. June 2006.

Society of Critical Care Medicine – Critical Care Refresher Course. Mechanical Ventilation, Ventilation/Perfusion Matching. Chicago, IL. June 2006.

Kummer C

Is HbA_{1c} a marker for poor outcome after CABG in undiagnosed diabetics? 24th Shields Research Day – Research in Progress. University of Toronto, Toronto, ON. May 2006.

Is HbA_{1c} a marker for poor outcome after CABG in undiagnosed diabetics? Canadian Anesthesiology Society Meeting, Toronto, ON. June 2006.

Lau K

Can cerebral blood flow velocity and BIS detect changes in depth of anesthesia in children? Research in Progress Meeting, Department of Anesthesia, University of Toronto, Presented as well at The Surgical Services Grand Rounds 2006 Laboratory and Clinical Science Research Competition, Sick Kids Hospital. Toronto, ON. May 2006.

The effect of propofol concentration changes on electroencephalogram and bispectral index in children. Research in Progress Meeting, Department of Anesthesia, University of Toronto, Toronto, ON. May 2006.

Macarthur A

3rd Annual Mount Sinai Hospital Obstetric Anesthesia Conference. Fever in labor: Possible Causes, Possible Consequences and need to Treat. Toronto, ON. September 2005.

Anesthetic Practice. Neuraxial Analgesia and Anticoagulation in the Parturient. University of Toronto, Toronto, ON. November 2005.

11th International Obstetric Anesthesia Meeting. Regional anesthesia for labor. Vasopressors to prevent spinal anesthesia induced hypotension. Peripartum myocardial ischemia. San Paolo, Brazil. April 2006.

47th Annual McGill Anesthesia Update. What's new in the management of postpartum hemorrhage. Sedation for obstetric procedures. Montreal, QC. May 2006.

62nd Annual Canadian Anesthesia Society Meeting. Case discussion – Mediastinal mass during pregnancy; Obstetric Anesthesia Workshop. Toronto, ON. June 2006.

Mak P

Canadian Anesthesiologists' Society 62nd Annual meeting. A case of major spine surgery. Toronto, ON. June 2006.

Manninen P

Combined Scientific Meeting In Anesthesiology. Awake Craniotomy, Anesthesia for epilepsy surgery, Neuromonitoring. Hong Kong. 2005.

Cerebral Protection, Subarachnoid Hemorrhage, Neurosciences. West Bengal, India. November 2005.

Visiting Professor. Anesthesia for cerebrovascular surgery. Detroit Henry Ford, Detroit, MI. December 2005.

Visiting Professor. Anesthesia for monitoring. Jacksonville Shands University, Jacksonville, FL. March 2006.

Canadian Anesthesiologists' Society 62nd Annual meeting. Update on anesthesia for interventional and diagnostic radiology. Toronto, ON. June 2006.

Mazer CD

Blood conservation and coagulation management in cardiac surgery. China/CVT-CAS Cardiac Anesthesia Symposium 2005. Shanghai, China and Beijing, China. July 2005.

Coagulation monitoring: TEG and fibrinolysis. China/CVT-CAS Cardiac Anesthesia Symposium 2005. Shanghai, China and Beijing, China. July 2005.

Risk Reduction In Cardiac Anesthesia – Does recombinant Factor VIIa have a role in the management of bleeding after cardiac surgery? 20th International Congress of the Israel Society of Anesthesiologists. Tel Aviv, Israel. September 2005.

My patient recently had a coronary stent: What should I know and do? Toronto Anesthesia Symposium, Toronto, ON. April 2006.

Is the anesthesiologist responsible for post-operative blindness? Toronto Anesthesia Symposium, Toronto, ON. April 2006

Recombinant Factor VIIa: Is it indicated in the bleeding patient? Combined Surgery and Anesthesia Grand Rounds, North York General Hospital, Toronto, ON. April 2006.

Update on Safety of Antifibrinolytics. Society of Cardiovascular Anesthesiologists 28th Annual Meeting. San Diego, CA. April 2006.

Massive Bleeding and Factor VIIa: Does the end justify the means? Society of Cardiovascular Anesthesiologists 28th Annual Meeting. San Diego, CA. April 2006.

Cardiovascular Anesthesia Research: Have all the questions already been answered? Visiting Professor, University of Ottawa, Department of Anesthesia, Gary Johnson Research Day. Ottawa, ON. May 2006.

Intraoperative Blood Conservation. CAS 62nd Annual Meeting, Toronto, ON. June 2006.

Antiplatelet Agents. CAS 62nd Annual Meeting, Toronto, ON. June 2006.

McCartney CJL

Workshop Leader, Lower extremities blocks using nerve stimulation and ultrasound — a hands-on workshop. Canadian Anesthesiologists' Society 62nd Annual meeting, Toronto, ON. June 2006.

Workshop Leader, Comprehensive thoracic epidural and upper/lower extremity blocks using nerve stimulation and ultrasound techniques — a hands-on workshop. Canadian Anesthesiologists' Society 62nd Annual meeting, Toronto, ON. June 2006.

Speaker, Peri-operative multimodal pharmaceutical pain management. Canadian Anesthesiologists' Society 62nd Annual meeting, Toronto, ON. June 2006.

Speaker, Catheter Techniques are Superior to Long-Acting Peripheral Nerve Blocks Alone, Controversies and Fundamentals in Regional Anesthesia, Warldorf-Astoria Hotel, New York, NY. May 2006.

Workshop, Use of Ultrasound in Regional Anesthesia, Controversies and Fundamentals in Regional Anesthesia, Warldorf-Astoria Hotel, New York, NY. May 2006.

Workshop, Interscalene and Supraclavicular Blocks, 3rd Annual International Symposium on Ultrasound and Regional Anesthesia, Toronto, ON. April 2006.

Workshop, Interscalene and Supraclavicular Blocks, 3rd Annual International Symposium on Ultrasound and Regional Anesthesia, Toronto, ON. April 2006.

Speaker, Sacral Plexus, 3rd Annual International Symposium on Ultrasound and Regional Anesthesia, Toronto, ON. April 2006.

Workshop, Ultrasound Guided Nerve Blocks: Sciatic and Femoral Blocks, 31st Annual meeting of the American Society of Regional Anesthesia, Palm Springs, CA. April 2006.

Panel Discussant, Ultrasound Guided Peripheral Nerve Blocks, 31st Annual meeting of the American Society of Regional Anesthesia, Palm Springs, CA. April 2006.

Workshop, Ultrasound Guided Nerve Blocks: Brachial Plexus Below the Clavicle, 31st Annual meeting of the American Society of Regional Anesthesia, Palm Springs, CA. April 2006.

Workshop, Use of stimulation techniques in regional anesthesia, University of Toronto Hands-On Regional Anesthesia Workshop, Toronto, ON. February 2006.

Visiting Professor, Use of ultrasound for regional anesthesia, Eastern Maine Medical Centre, Bangor, ME. February 2006.

Workshop leader; Ultrasound for regional anesthesia, Okanogan Anesthesia Conference, Silver Star Resort, January 2006.

Speaker; Getting the best bang for your analgesic buck: Best strategies for perioperative pain management, Okanogan Anesthesia Conference, Silver Star Resort, January 2006.

Speaker; Defining the use of ultrasound in regional anesthesia, Okanogan Anesthesia Conference, Silver Star Resort, January 2006.

Workshop Leader; Ultrasound for Peripheral Nerve Blocks, Anesthetic Practice 2005. Toronto, ON. November 2005.

Workshop Leader; Brachial Plexus – Above the Clavicle, 12th Annual Regional Anesthesia and Pain Medicine 2005 conference. Niagara-on-the-Lake, ON. October 2005.

Speaker; Gabapentin & Dexamethasone, 12th Annual Regional Anesthesia and Pain Medicine 2005 conference. Niagara-on-the-Lake, ON. October 2005.

Workshop Leader; Intensive Upper Limb, 12th Annual Regional Anesthesia and Pain Medicine 2005 conference. Niagara-on-the-Lake, ON. September 2005.

Visiting Professor; Use of ultrasound in regional anesthesia. National Naval Medical Centre, Maryland. September 2005.

Visiting Professor; Use of ultrasound in regional anesthesia. Walter Reed Army Medical Centre, Washington DC. September 2005.

McCheyne AJ

McCheyne AJ, Engelhardt T, Karsli C, Bissonnette B: The effect of halothane and propofol on acute changes in cerebral blood volume in young children. Research in Progress Meeting, Department of Anesthesia, University of Toronto, Toronto, ON. May 2006.

McCluskey SA

Invited Speaker. Alternatives to Blood Transfusion. Guelph General Hospital, Guelph, ON. September 2005.

Visiting Professor. Manitoba Anesthesiology Society Meeting. Perioperative Blood Conservation: Politics and Process. Winnipeg, MB. November 2005.

Invited Speaker. Blood Conservation: Optimizing Outcomes, North York General, Toronto, ON. November 2005.

Invited Speaker. Combined Grand Rounds, Anesthesia and General Surgery. Perioperative Fluid Management, North York General, Toronto, ON. December 2005.

Invited Speaker. Restricted Fluid Therapy. St. Joseph's Health Centre, Toronto, ON. February 2006.

Invited Speaker. Crystalloid vs. Colloids: A controversy still? Toronto Anesthesia Symposium, Toronto, ON. April 2006.

Invited Speaker. Is there a right way to approach fluid resuscitation. Canadian Anesthesiologist's Society Meeting, Toronto, ON. June 2006.

Invited Speaker. Perioperative Fluid Therapy and Blood Conservation. Scarborough General Hospital, Toronto, ON. June 2006.

McKnight D

Royal College of Physicians and Surgeons of Canada, 2005 Annual Meeting. Equity Within the Medical Profession: The Royal College Perspective. Vancouver, BC. September 2005.

Plenary Session, Association of Faculties of Medicine Annual Meeting. Social Accountability - Affirmative Action or Freedom of Choice. London, ON. May 2006.

Canadian Anesthesiologists' Society Annual Meeting. The Ethics of Professionalism in Anesthesia. Toronto, ON. June 2006.

Clinical Ethics Day for Residents, University of Toronto. A Leaky Vessel: The Concept of Futility. Toronto, ON. June 2006

McRae K

Toronto Anesthesia Symposium. Acute Pain Management in Narcotic Tolerant Patients. Toronto, ON. April 2006.

Morgan PJ

From flight deck to operating room: is simulation the answer? Canadian Anesthesiologists' Society Atlantic Meeting, Keynote Lecture, National audience. Saint John, NB. September 2005.

What's new in Obstetric Anesthesia. Scarborough General, Scarborough Grace Hospitals. Keynote lecture. Toronto, ON. October 2005.

Simulation in Anesthesia: where we have been, where we are and where we are going. Simulation Symposium. McMaster University. Hamilton, ON. November 2005.

What's new in Obstetric Anesthesia. CME lecture to Lakeridge District anesthetists, Keynote lecture, local audience. February 2006.

Simulation in Anesthesia: where we have been, where we are and where we are going. Simulation Symposium. Hospital for Sick Children. Toronto, ON. March 2006.

Obstetrical Team Training using High-Fidelity Simulation. Leadership in Safety Rounds. Sunnybrook & Women's College Health Sciences Centre. Toronto, ON. March 2006.

Obstetrical Team Training using High-Fidelity Simulation. Lecture to Perinatal Nurses, Women's College Hospital. Toronto, ON. May 2006.

Simulation in Canada: are we addressing patient safety? Association of Canadian University Departments of Anesthesia (ACUDA). Toronto, ON. June 2006.

The Pregnant Airway: High-fidelity Simulation Scenario. Obstetric Workshop. Canadian Anesthesiologists' Society Annual Meeting, Toronto, ON. June 2006.

Morgan PJ, Pittini R, Marrs C, DeSousa S, Haley MF, Vandervyver M. Identification of human factors elucidated during obstetrical team training using high-fidelity simulation. International Meeting on Medical Simulation. San Diego, CA. January 2006.

Morgan PJ, Pittini R, Marrs C, DeSousa S, Haley MF, Vandervyver M. Identification of human factors elucidated during obstetrical team training using high-fidelity simulation. International Ottawa Conference on Clinical Competence. New York, NY. May 2006.

Morgan PJ, Pittini R, Regehr G, Marrs C, Haley MF. Evaluating teamwork in a simulated obstetrical environment. Poster Presentation. Canadian Anesthesiologists' Society Annual Meeting, Toronto, ON. June 2006.

Morgan PJ, Lam-McCulloch J, Tarshis J, Herold-McIlroy J. Simulation performance checklist generation using the Delphi technique. Poster Presentation. Canadian Anesthesiologists' Society Annual Meeting, Toronto, ON. June 2006.

Morgan PJ, Cleave-Hogg D, DeSousa S, Haley MF. Student opinions of part task and high-fidelity simulation education. Canadian Anesthesiologists' Society Annual Meeting, Toronto, ON. June 2006.

Murphy P

China/CVT – Canadian Anesthesiologist's Symposium. 1. Cardiac Anesthesia for Valvular Heart Disease, 2. TEE and Cardiac Surgery. July 2005.

TGH Heart Transplant Retreat. Inhaled Milrinone and Cardiac Surgery. Niagara on the Lake, ON. October 2005.

TGH Perioperative Symposium. Role of TEE in Evaluation of Complications of Coronary Artery Disease. Toronto, ON. November 2005.

Thoracic Anesthesia. Making Your Mark. Banff, Alberta. February 2006.

Ultrasound and Regional Anesthesia, 3rd Annual International Symposium ISURA 2006. Departments of Anesthesiology – Toronto, Mannheim, Bochum. Toronto, ON. April 2006.

Naik, VN

Naik VN, Wong D, Gelipano Z. Perioperative Medicine – Philippines vs. Canada. St. Michael's Hospital Perioperative Grand Rounds, Toronto, ON. September 2005.

Joo HS, Naik VN, Chandra DB. Airway Gadgets and Difficult Airway Simulation. Anaesthetic Practice 2005, Toronto, ON. November 2005.

Naik VN, Tarshis JT. Debriefing in Patient Simulation. Simulation Centre, McGill University, Montreal, PQ. June 2006.

Houston PL, Naik VN. The Anesthesia Written Examination – Past, Present, and Future. Canadian Anesthesiologist's Society Annual Meeting, Toronto, ON. June 2006.

Naik VN, Joo HS, Chandra DB, Chow R. Difficulty Airway Simulator. Canadian Anesthesiologist's Society Annual Meeting, Toronto, ON. June 2006.

Orser B

Department of Pharmacology, University of Dundee, Scotland, UK. August 2005.

The pharmacology of tonic inhibition. Department of Pharmacology, University of Dundee, Scotland, UK. August 2005.

Special meeting on solutions to labeling and packaging issues of pharmaceutical and IV solutions. Canadian Patient Safety Institute and ISMP-Canada, Sheraton Hotel, Toronto, ON. September 2005.

Perioperative Drug Errors, Association of Perioperative Registered Nurses & ISMP United States, International Teleconference. September 2005.

Medication Labelling Errors. Canadian Anesthesiologists' Society Atlantic Regional Meeting, St. John, NB. September 2005.

Medication Safety. Department of Anesthesia, Laval University, Quebec City, QC. February 2006.

Medication Safety. The Association of Canadian University Departments of Anesthesia (ACUDA), Toronto, ON. June 2006.

Patient Safety Symposium: Frontiers in patient safety: Making anesthesia safe, medical-legal challenges and medication error. Canadian Anesthesiologists' Society Meeting, Toronto, ON. June 2006.

Perioperative Drug Safety, Nursing Department, Sunnybrook and Women's College HSC, Toronto, ON. February 2006.

Visiting Professor. Department of Anesthesia. Laval University, Quebec City, PQ. February 2006.

Peng P

Speaker, Coping with Neuropathic Pain. Workshop for family physicians and specialists. Intercontinental Hotel, Toronto, ON. August 2005.

Speaker, Coping with Neuropathic Pain. Workshop for family physicians and specialists. Vaughan Estate, Sunnybrook Hospital, Toronto, ON. August 2005.

Speaker, Coping with Neuropathic Pain. Workshop for family physicians and specialists. Thornhill Golf Club, Thornhill, ON. October 2005.

Speaker, Peri-operative management of patients on methadone therapy. CME round, Southlake Regional Health Center, Newmarket, ON. November 2005.

Speaker, Coping with Neuropathic Pain. Workshop for family physicians and specialists. Scarborough, ON. November 2005.

Speaker, How to set up a national database. Canadian Neuromodulation Society Meeting. Montreal, QC. November 2005.

Speaker, Pregabalin-new medication for acute post-operative pain. City Ambulatory Round. Toronto, ON. November 2005.

Speaker, Coping with Neuropathic Pain. Workshop for family physicians and specialists. Toronto, ON. February 2006.

Speaker, Post-operative pain management with Cox-2 inhibitors. Association of Private Orthopedic Surgeons Hong Kong. Hong Kong, China. March 2006.

The use of new drugs in peri-operative pain control. Hong Kong College of Anesthesiologists. Hong Kong, China. March 2006.

Multi-modal Pain Management. CME meeting, Department of Orthopedic Surgery and Anesthesiology, Mississauga General Hospital, Mississauga, ON. May 2006.

Multi-modal Pain Management. CME meeting, Department of Orthopedic Surgery and Anesthesiology, Mississauga General Hospital, Mississauga, ON. May 2006.

Peri-operative use of gabapentin and pregabalin in surgical patients. Canadian Anesthesiologists' Society 62nd Annual meeting, Toronto, ON. June 2006.

Multi-modal Pain Management. CME meeting, Department of Orthopedic Surgery and Anesthesiology, St. Joseph Hospital, Toronto, ON. June 2006.

Perlas A

50th Ontario Anesthesia Meeting. Ultrasound guided Nerve Blocks. Burlington, ON. September 2005.

50th Ontario Anesthesia Meeting. Workshop Leader, Ultrasound guided brachial plexus blocks. Burlington, ON. September 2005.

Workshop Leader, Intensive Upper Limb, 12th Annual Regional Anesthesia and Pain Medicine 2005 conference, Niagara-on-the-Lake, ON. September 2005.

Regional Anesthesia and Anticoagulation, 12th Annual Regional Anesthesia and Pain Medicine 2005 conference, Niagara-on-the-Lake, ON. October 2005.

Workshop Leader, Intensive Ultrasound, 12th Annual Regional Anesthesia and Pain Medicine 2005 Conference, Niagara-on-the-Lake, ON. October 2005.

Workshop, Sciatic Nerve Blocks – Technical Considerations, 3rd Annual International Symposium on Ultrasound and Regional Anesthesia, Toronto, ON. April 2006.

Ultrasound Guided Blocks – Technical Considerations, 3rd Annual International Symposium on Ultrasound and Regional Anesthesia, Toronto, ON. April 2006.

Workshop, Sciatic Nerve Blocks – Technical Considerations, 3rd Annual International Symposium on Ultrasound and Regional Anesthesia, Toronto, ON. April 2006.

Workshop Leader, Lower extremities blocks using nerve stimulation and ultrasound — a hands-on workshop. Canadian Anesthesiologists' Society 62nd Annual meeting, Toronto, ON. June 2006.

Prabhu A

Perioperative Cardiac Risk. Grand Rounds. Tata Motors Hospital, India. November 2005.

Postoperative Hypertension in Craniotomies. 50 years of Neurosciences. Kolkatta, India. November 2005.

Remifentanyl: An overview of its pharmacology and perioperative use. Grand Rounds, St. Joseph's Hospital, Toronto, ON. March 2006.

Slinger P

Biannual meeting, Australia and New Zealand Society of Anesth. Cardiothoracic Vasc. and Perfusion-Special Interest Group. Preoperative Assessment, One-Lung Ventilation, Mediastinal Masses, Post-Thoracotomy Analgesia. Broome, Australia. July 2005.

Visiting Professor. Wuxi Fifth People's Hospital, Wuxi, China. July 2005.

China/CVT-CAS Cardiac Anesthesia Symposium. Management of One-Lung Ventilation, Post-Operative Analgesia. Shanghai and Beijing, China. July 2005.

Visiting Professor. Department of Anesthesia, University of Western Ontario, London, ON. September 2005.

Annual Meeting, American Society of Anesthesiologists. The Patient with a Large Anterior Mediastinal Mass; Will this Patient Tolerate a Pneumonectomy? Atlanta, GA. October 2005.

TGH Annual Perioperative TEE Symposium. TEE Unknowns, Toronto, ON. November 2005.

Annual Toronto Anesthesia Practice. Thoracic Anesthesia Without a Bronchoscope, Is It Malpractice? Toronto, ON. November 2005.

Annual Post Graduate Assembly. Protecting the Lungs. NYSSA, New York, NY. December 2005.

Annual Symposium Clinical Update in Anesthesiology, Surgery and Perioperative Medicine. Does one-lung ventilation injure the lungs? St. Thomas, US Virgin Islands, January 2006.

Visiting Professor, Department of Anesthesia, Duke University Medical School, Durham, NC. January 2006

University of Utah Annual Postgraduate Course in Anesthesia. Post-thoracotomy Analgesia; Preoperative Assessment for Pulmonary Resection; Update on One-lung Ventilation; Mediastinal Masses. Park City, UT. February 2006.

Visiting Professor. Department of Anesthesia, Stanford University, Palo Alto, CA. March 2006.

Invited Speaker. IARS Annual Meeting. Preoperative Assessment for Pulmonary Resection; Post-Pneumonectomy Hypotension. San Francisco, CA. March 2006.

Sulaiman I

Sulaiman I, Morgan PJ, Cleave-Hogg D, DeSousa S, Haley MF. Need for procedural skills training in undergraduate education. Poster Presentation. The Wilson Centre Research Day, Toronto, ON. October 2005.

Tarshis J

Grand Rounds Operating Room. Rouge Valley Health System Ajax and Pickering Health Centre Site. Medical Error: How are we doing? Pickering, ON. November 2005.

6th Annual Tremblant Perioperative Medicine Conference, Pros and Cons: Cardiac Risk Assessment Testing – Do I Need Further Testing? Mont Tremblant, QC. February 2006.

Patient Safety Ground Rounds, Sunnybrook & Women's College Health Sciences Centre. Human Patient Simulation: Innovations and Initiatives. Toronto, ON. March 2006.

Canadian Anesthesiologists' Society Annual Meeting Workshop, Toronto: ACLS update in the simulator. Toronto, ON. June 2006.

Tumber P

Postoperative Pain Control for Rapid Recovery after Abdomen Surgery, TWH Interdisciplinary Dinner Meeting, Toronto, ON. September 2005.

Nerve Blocks: Role of Anesthesiology, Neurosurgery Grand Rounds, Hospital for Sick Children, Toronto, ON. September 2005.

Acute Pain, Opioids and Addiction: A Potent Mix, Inaugural TWH Interdisciplinary Pain Management Rounds, Toronto, ON. September 2005.

Pain as the Fifth Vital Sign, Closing Panel, OPANA Conference, Toronto, ON. October 2005.

Workshop Leader, Sciatic Nerve, 12th Annual Regional Anesthesia and Pain Medicine 2005 conference, Niagara-on-the-Lake, ON. October 2005.

Workshop Leader, Lumbar Plexus, 12th Annual Regional Anesthesia and Pain Medicine 2005 conference, Niagara-on-the-Lake, ON. October 2005.

Controlled-Release Opioids in Acute Pain Management, 12th Annual Regional Anesthesia and Pain Medicine 2005 conference, Niagara-on-the-Lake, ON. October 2005.

Perioperative Pain Management, Shouldice Hernia Hospital Rounds, Toronto, ON. November 2005.

Lead Facilitator, Pain: A Multidimensional Issue, Fifth Annual University of Toronto Undergraduate Interfaculty Education in Pain, Toronto, ON. March 2006.

Chronic Pain and Opioids, Inaugural Spine Day, Trillium Hospital, Mississauga ON. April 2006.

Van der Vyver M

Workshop: Interesting Cases in Obstetrical Anesthesia, Toronto Anesthetic Practice Meeting, University of Toronto, Toronto, ON. November 2005.

Van Rensburg A

American Society of Anesthesiologists-Annual Meeting. Treatment of excessive bleeding after placement of ventricular assist device and subsequent cardiac transplantation with recombinant factor VIIa) October 2005.

European Association for Cardiothoracic Anesthesiologists Annual Meeting. Determinants of complications with Recombinant Factor VIIa Therapy in Patients with Refractory Blood Loss after Cardiac Surgery. Venice, Italy. May 2006.

Canadian Anesthesiologists Society. Withdrawal of Aspirin Increases the Risk of Peri-Operative Myocardial Infarction. Toronto, ON. June 2006.

Vegas A

TGH TEE Symposium. Lecture: TEE for Atrial Septal Defects, Lecture: TEE for Tricuspid Valve, Workshop: Aortic Valve, Toronto, ON. 2005.

20th International Congress of the Israel Society of Anesthesiologists. TEE Workshop: LV Function, 2005.

PACU Nurses Rounds, Transesophageal Echocardiography. January 2006.

Visiting Professor. Grand Rounds: Weaning from Cardiopulmonary Bypass. Rush University, Chicago, IL. April 2006.

Visiting Professor. Resident Rounds. Coagulation and Cardiac Surgery, TEE for Endocarditis, Rush University, Chicago. IL. April 2006.

Wijesundera D

Anaesthetic Practice 2005. Pro-Con Debate: Every Patient with Coronary Artery Disease Needs a Perioperative Beta Blocker. Faculty of Medicine, University of Toronto, Toronto, ON. November 2005.

Nephrology Rounds. Renal Dysfunction Following Cardiac Surgery: The Multi-Disciplinary Research Experience at UHN. Division of Nephrology, University Health Network, Toronto, ON. January 2006.

Cardiovascular Research Rounds. Risk Stratification and Treatment of Perioperative Renal Failure After Cardiac Surgery – the UHN Research Experience. Division of Cardiac Surgery, University Health Network, Toronto, ON. March 2006.

Canadian Anesthesiologists' Society Meeting. N-Acetylcysteine for Reducing Renal Injury in Cardiac Surgery. Toronto, ON. June 2006.

Wong D

Alternative airway techniques. West China Hospital, Sichuan University, Chengdu, China. July 2005.

Perioperative cardiac risk reduction. West China Anesthesiology annual meeting, Chengdu, China. August 2005.

Difficult Airway management: role of fiberoptic bronchoscopy. West China Anesthesiology annual meeting, Chengdu, China. August 2005.

Fiberoptic bronchoscopy in the 21st century. West China Anesthesiology annual meeting, Chengdu, China. August 2005.

Workshop Leader, Perioperative management of a patient with an AICD. Toronto Anesthesia Symposium, Toronto, ON. April 2006.

Patient with ICD going for surgery. Canadian Anesthesiologists' Society 62nd Annual meeting, Toronto, ON. June 2006.

Workshop Speaker, Airway adjuncts. Canadian Anesthesiologists' Society 62nd Annual meeting, Toronto, ON. June 2006.

Yogendran S

Practical aspect of "no escorts". Canadian Anesthesiologists' Society 62nd Annual meeting, Toronto, ON. June 2006.

Yee D

Making a Mark, Senior Residents' Review Course. Complications of Anesthesia. Banff, AB. February 2006.

Zhang H

New frontiers of sepsis. XI International Conference on Intensive Care, Porto Alegre, Brazil. October 2005.

Bacteria-cytokine interaction. XI International Conference on Intensive Care, Porto Alegre, Brazil. October 2005.

Neutrophils in lung injury. XI International Conference on Intensive Care, Porto Alegre, Brazil. October 2005.

Ventilator-induced lung injury. XI International Conference on Intensive Care, Porto Alegre, Brazil. October 2005.

PEER REVIEWED GRANTS

Asmundson GJG, Taylor S, Stein MB, Katz JD, Cox BJ, Jang KL. Canadian Institutes of Health Research – INMHA-New Emerging Team Grant (CIHR). \$291,986/yr (5 years). Understanding risk factors, co-morbidity, and global health issues in PTSD: Laying foundation for early identification in at-risk populations and improving preventive and treatment strategies for all Canadians. 2003-2008.

Baker AJ. Physicians' Services Incorporated Foundation. \$160,000. Principle Investigator. Mechanism and optimal time window of neuroprotective effects of calpain inhibitor MDL-28170 on traumatic white matter injury. 2004-2006.

Baker AJ. Ontario Neurotrauma Foundation. \$75,000. Principle Investigator. Calpain inhibition as a white matter neuroprotective therapy after TBI: proof of principle for functional, histopathical and behavioural improvements by targeting white matter following traumatic brain injury. 2006-2007.

Baker AJ. Physicians' Services Incorporated Foundation (PSI). \$160,000. Mechanism and optimal time window of neuroprotective effects of calpain inhibitor MDL-28170 on traumatic white matter injury. 2004-2006.

Beattie WS. Novo Nordisk. \$500,000 (2 years). Echo Study. A randomized, double-blind, placebo-controlled, multi-center study to evaluate the efficacy of activated recombinant factor VII for early control of hemorrhage in high-risk cardiac surgery. 2006-2008.

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

Beattie WS, Wijesundera DN. Heart and Stroke Foundation of Ontario. \$189,972 (2.5 years). The PRIME (Perioperative Renal Insufficiency Management) study: A randomized, double-Blinded, placebo-controlled trial of N-acetylcysteine for preventing renal injury after cardiac surgery. 2003-2005.

Bombardier C, Jadad AR, Willkins A, Eysenbach G, Milgram P. Canadian Institutes of Health Research. \$200,000 (2 years). A demonstration project of electronic patient generated data for point of care reporting in the management of rheumatoid arthritis. 2003-2005.

Borger M, Djaiani G. Heart and Stroke Foundation of Ontario. \$59,249/yr (2 years). Minimal invasive cardiac surgery: Is it safe for the brain? 2005-2007.

Boschen KA, Katz J, Craven C, Popovic M, Thrasher A, Hunter J, Tonack M, Hitzig S. Canadian Institutes of Health Research – Team Planning and Development Grant. \$100,000 (1 year). Chronic Pain and Quality of Life in Spinal Cord Injury. 2006-2007.

Brierley J, Short D, Panzarella T, Nyhoff-Young J, Wiljer D, Michealson T, Upshur R, Heslegrave R, Jadad A, Sampson H. Canadian Institutes of Health Research. \$115,630 (3 years). A Study to Assess the Utility of a Canadian Web-Based Research Ethics Board Protocol and Consent Review Template. 2004-2007.

Briet, F. Canadian Institutes of Health Research (CIHR). \$204,037. Does Nutrient Supplementation Influence Cardiac Function, Structure and Survival by Altering Energy Metabolism? 2004-2006.

Briet, F. Society of Cardiovascular Anesthesiologists. \$50,000. Impact of Cardiopulmonary Bypass and Cardiac Surgery on Lymphocyte Energetics and Immune Function in Patients with Non Insulin Dependent Diabetes Mellitus. 2005-2007.

Brown SC., (Co-investigator for this grant), Principal investigators include Dalhousie/IWK Health Centre (Drs. P. J. McGrath, A. Finley), McGill University (Dr C. Johnston), The University of Toronto (Dr B. Stevens), University of Saskatchewan (Dr C. von Baeyer) and University of British Columbia (Dr K. Craig) Canadian Institutes of Health Research (CIHR Grant). \$1.8 Million CDN awarded. Pain in child health: An innovative transdisciplinary, cross-country research training consortium. 2002, 6-year duration.

Brown SC., (Primary co-investigator for this grant), Our new emerging team includes scientists based at The University of Toronto (Drs. P.A. McGrath, S. Brown, K. Davis, R. Geist), York University (Dr J. Katz), and Queens University (Dr. E. VanDenKerkhof). Canadian Institutes of Health Research (CIHR Grant). \$1.5 Million CDN awarded. Gender Differences in Child Development: Vulnerability to Chronic Pain. 2003, 5-year duration.

Brown S C., (Project Director for this grant), Our research team includes scientists based at The University of Toronto (Drs S. Brown, P. McGrath and S. Schneeweiss), biomedical engineers at Design Continuum of West Newton, Massachusetts (David Chastain PI), and Floating Hospital for Children, Tufts-New England Medical Center (Dr Geoff Hart). NIH, SBIR Grant, \$220,000 CDN awarded. The Effectiveness of the Children's Sedation Device. 2003-2006.

Carlen P, El-Beheiry H, Del Camp M, Shanon P. Juvenile Diabetes Research Foundation (USA), \$163,810 US. Hypoglycemic seizures: mechanisms and role in hypoglycemic brain damage. 2006.

Chung F. Physicians' Services Incorporated Foundation (PSI) Foundation. \$80,000. Elimination of preoperative testing in low-risk day surgery. 2005-2006.

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

Cox P. Canadian Institutes of Health Research (CIHR). \$1,031,290. Optimization of Exogenous Lung Surfactant. 2000-2009.

Coyte P, McKeever P, Jadad AR, et. al. Canadian Institutes of Health Research. \$1,000,000 (5 years). Health Care, Technology, and Place [Training Grant]. 2002-2007.

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

Djaiani G. Heart and Stroke Foundation of Ontario. \$118,499 (2 years). Minimally invasive cardiac surgery: Is it safe for the brain? 2006-2008.

Easty T, Cafazzo J, Jadad AR, et. al. Ontario Ministry of Health and Long-Term Care. \$1,250,000 (3 Years) Human factors evaluation of emerging health technologies. 2004-2006.

Evans B, Brunskill I, Green E, Gutierrez E, Holowaty E, Whitton T, Roberts W, Jadad AR, Kline D, Quam S, Fitch M. The Change Foundation. \$100,000 (2 years). Harnessing Consumerism in Health and Health Care – User Tracking and analysis of Publicly reported Cancer Treatment Wait Lists. 2003-2005.

Friedman Z, Naik V, Devito I. The Physicians Services Incorporated Foundation. \$37,500. Clinical Impact of Epidural Anesthesia Simulation on Short and Long Term Learning Curve and Complication Rate: High Fidelity Vs. Low Fidelity Model Training. 2006-2008.

Friedman Z, Naik V, Devito I. American Society of Regional Anesthesia- Carl Koller Memorial Research Grant. \$45,000. Epidural Anesthesia Simulation Training for Second Year Anesthesia Residents - Impact on Learning Curve and Complication Rate. 2006-2008.

Gagliese L. Canadian Institutes of Health Research New Investigator Award. \$250,000 (5 years) 2004-2009.

Gagliese L, Rodin G, Moore M, Shepherd F. Canadian Institutes of Health Research – Operating Grant. 329,937. Age differences in cancer pain. 2003-2006.

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

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

Gagliese L, Snijdelaar D, Chan V, Katz J, Koren G. Canadian Institutes of Health Research – Clinical Trial. (CIHR). \$106,313/yr (4 years). Effects of NMDA-receptor antagonism on hyperalgesia, opioid use and pain after major surgery in young and elderly patients. 2002-2006.

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

Hare G. CIHR. \$53,087/year. Blood Conservation Using Antifibrinolytics: A Randomized Trial in a Cardiac Surgery Population – the BART Study. Site Co-investigator: Hare G. 2002-2005.

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

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

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

Hudson C, Devenyi, Flanagan R, Lam, Fisher J. BCA. \$86,924/year (5 years). Sight-Threatening Retinal Complications in Type 2 Diabetes.

Jadad AR, Goel et al. Canadian Foundation for Innovation (CFI) and Ontario Innovation Trust (OIT) \$5.6 million (3 years) [40% CFI, 40% OIT]. The Centre for Global eHealth Innovation [Infrastructure support]. 2002-2005.

Jadad AR, Browman G, Wright J, Ellis P, Greenberg M, Gospodarowicz M, Eysenbach M. The Ontario Cancer Research Network. \$448,000 (3 years). The Action Project: Accelerating Cancer Trials through an Internet-based Collaborative Community in Ontario. 2003-2006.

Jadad AR. Toronto Academic Health Sciences Network (TAHSN) through its IT Steering Committee. \$57,938. A feasibility study for a common results view from the TAHSN. 2005.

Jadad AR, Bayne J. Cancer Care Ontario. \$100,320. Development of a Web-based application to present information about the performance of the Ontario Cancer System to the public, health care providers and managers [Contract]. 2005.

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

Joo HS, Naik VN, Savoldelli GL, LeBlanc VR, Latter DA, Mazer CD. Physician's Services Incorporated Foundation Grant. Total Grant \$58,869 High Fidelity Simulation versus Traditional Didactic Seminars for Teaching Trainees Separation from Cardiopulmonary Bypass. 2005-2006.

Karkouti K, et al. Canadian Blood Services. \$28,000 (2 years). Predicting massive blood loss in cardiac surgery: Value of intraoperative coagulation testing. 2006–2008.

Karkouti K. CIHR/CBS New Investigator Award. \$250,000 (5 years). Determining the safety and efficacy of modalities that prevent or treat perioperative anemia to improve perioperative transfusion practice. 2002–2007.

Karkouti K, et al. CIHR operating grant. \$136,000 (2 years). Predicting massive blood loss in cardiac surgery: Value of intraoperative coagulation testing. 2006–2008.

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

Karkouti K. et al. Canadian Blood Services. \$18,000. Development and validation of a clinical prediction rule for massive blood loss in cardiac surgery. 2005-2006.

Karkouti K. Anemia Institute. \$30,000. Comparison of three management strategies for post cardiac surgery coagulopathy. 2005-2006.

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

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

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

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

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

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

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

Levinson W, Laupacis A, Eakin J, Jadad AR, et. al. Canadian Institutes of Health Research. \$1,000,000 (5 years). An Integrated Training Program in Health and Social Science Research to Improve the Health of Marginalized Populations. 2003-2009.

Librach L, Stern A, Jadad AR. Ontario Ministry of Health and Long-Term Care, through the Primary Care Transition Fund. \$1,406,900,000 (3 years) Tele-homecare in Palliation Study (T.I.P.S.): A Randomized Controlled Trial Comparing the Effectiveness of Tele-homecare for Palliative Oncology Patients. 2004-2007.

Loke J et al. Canadian Institutes of Health Research POP Grant. \$100,000 (2 years). Diagnostic Genetic Testing for Malignant Hyperthermia and Central Core Disease. 2004-2006.

Lu W-Y. Canadian Institutes of Health Research (CIHR). \$114,149/yr. Acetylcholinesterase in Brain Aging. 2005-2008.

Matthew A, Ritvo P, Irvine J, Trachtenberg J, Jewett M, Fleshner N, Radomski S, Tsihlias B, Shaw B, Katz J. Canadian Institutes of Health Research – Operating Grant. \$119,049 (3 years). Sexual Dysfunction and Adaptation in Couples Affected by Prostate Cancer Surgery: Steps towards a Biopsychosocial Model of Treatment. 2005-2008.

Mazer CD (Co-Investigator). Canadian Institutes of Health Research (CIHR). \$22,950/yr. A Randomized Trial of a Lung-Open Ventilation Strategy (LOVS) in Acute Lung Injury. 2000-2006.

Mazer CD (Co-investigator). Canadian Institutes of Health Research (CIHR). \$53,087/yr. Blood Conservation Using Antifibrinolytics: A Randomized Trial in a Cardiac Surgery Population – the BART Study. 2002-2006.

Mazer CD. Physicians' Services Incorporated Foundation (PSI). \$83,708. Does Recombinant Factor VIIa Affect Vascular Graft Patency? 2004-2005.

Mazer CD (Co-Investigator). Canadian Institutes of Health Research (CIHR). \$77,900/yr. Does Nutrient Supplementation Influence Cardiac Function, Structure and Survival by Altering Energy Metabolism? 2005-2007.

Mazer D. (Co-Investigators). Society of Cardiovascular Anesthesiologists. \$20,000 US/year. Impact of Cardiopulmonary Bypass and Cardiac Surgery on Lymphocyte Energetics and Immune Function in Patients with Non-Insulin Dependent Diabetes Mellitus. 2005-2007.

Mazer D. (Principal Investigator). Ischemia Research and Education Foundation (IREF), \$25,000. Clinical Outcomes and Predictors of Prolonged Length of Stay in the Intensive Care Unit after Cardiac Surgery. 2005-2007.

McCartney CJL, Chan V, Brull R, Perlas A. Organon Canada Ltd Canadian Research Award in Anesthesia, \$5,000. A randomized Controlled Study Comparing Dual Endpoint Nerve Stimulation with Ultrasound Guided Infraclavicular Block for Hand Surgery. April-June 2006.

McCartney CJL, Chan V, Brull R, Perlas A. PSI Foundation. \$4,125. A Randomized Controlled Study Comparing Dual Endpoint Nerve Stimulation with Ultrasound Guided Infraclavicular Block for Hand Surgery. April-June 2006.

McGrath P, Katz J, Davis KD, Brown SC, Geist R, VanDenKerkhof E. Canadian Institutes of Health Research – IGH-New Emerging Team Grant. \$1,182,685 (5 years) Gender Differences in Child Development : Vulnerability to Chronic Pain. 2003-2008.

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

Meineri M, Karkouti K, McCluskey S. Anemia Institute. \$30,000. Comparison of three management strategies for post cardiac surgery coagulopathy. 2005–2006.

Morgan PJ, Pittini R, Tregunno D. The Physicians' Services Incorporated Foundation (PSI). \$52,400.00. Project Title: Development of a Behavioural Marking System to determine performance of Obstetrical Teams using High-Fidelity Simulation. November 2005.

Naik VN, Welke T. (Principal Investigator) Savoldelli GL, Joo HS, Chandra DB, LeBlanc VR. (Co-Investigators) Physician's Services Incorporated Foundation Grant. \$14,000. Individual vs Multimedia Instruction after Patient Crisis Simulation. 2005-2006.

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

Northern J, Jadad AR, Hohenadel J, Power M. Access to Cancer Services Innovation Fund. \$275,192. Virtual Communications Centre. 2005.

Orser B. Canadian Institutes of Health Research (CIHR): \$119,179/yr. The role of GABA_A receptors in anesthetic-induced impairment of memory and consciousness. 2006-2011.

Orser B. Merck Sharp Dohme Ltd., (\$40,000 for animal costs). GABAA receptors containing the $\gamma 5$ subunit are plausible targets for the development of cognitive-enhancing drugs. 2005.

Orser B. Canadian Institutes of Health Research (CIHR): Synaptic and extrasynaptic GABAA receptors: (\$128,160 p.a.). Distinct physiological and therapeutic roles. 2003-2008.

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

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

Orser B. Career Scientist Award, Ontario Ministry of Health. \$295,625. Molecular mechanisms of general anesthetics. 2000-2005.

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

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

Peng P, Pronovost A, Kern R. Physicians' Services Incorporated Foundation (PSI). \$5,500. Telemedicine and chronic pain consultation – a cost analysis. 2005.

Perlas A, McCartney C, Chan V, Brull R. University of Toronto Deans Fund, \$10,000. A randomized, controlled trial of ultrasound versus nerve stimulation for popliteal block. 2005.

Ritvo P, Del Giudice L, Ferris L, Katz J, Klar N, Paszat L, Rabeneck L, Upshur R, Weitzman E. Canadian Institutes of Health Research – Operating Grant. \$200,000 (2.5 years). Addressing Gender Differences in Colorectal Cancer Screening. 2005-2008.

Rodin G, Conner A, Gagliese L, Huggins MA, Jones J, Moore M, Shepherd F. \$235,545 (3 years). A prospective study of the will to live and the desire for death in patients with lung and pancreatic cancer. 2003-2006.

Rodin G, Hales S, Gagliese L, Zimmermann C. Canadian Institutes of Health Research – Operating Grant. \$101,860 (5 years). The quality of death in metastatic cancer and its relationship to antecedent factors and primary caregiver morbidity. 2005-2010.

Salter M, Bushnell C, Choiniere M, Coderre T, Collet J, Davis K, DeKoninck Y, Dostrovsky J, Henry J, Katz J, Lavigne G, Mogil J, Riberio-da-Silva A, Seguela P, Sessle B, Stevens B, Wilson-Pauwels L. Canadian Institutes of Health Research – Training Grants Program. \$1,681,200 (5 years). Pain Research from Molecules to Community – Collaborative National Training Program. 2002-2007.

Singer P, Jadad AR. Canada Foundation for Innovation and Ontario Innovation Trust. \$1,250,000 (3 years). Information and Communication Technology Platform for Public Engagement to Optimize Canadian Innovation. 2003-2006.

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

Slutsky AS, Dorian P, Morrison, L Spence J, Baker AJ. (Co-investigator), Lavery J, Rotstein O, Fowler R., Black S, Sibbald W, Redelmeier DA. Department of Health and Human Services Public Health Services. \$238,646/year. From bench to bedside to curbside. 2004-2009.

Stevens B, Asztalos E, Gibbins S, Katz J, McKeever P, Riddell R. Canadian Institutes of Health Research – Operating Grant. \$141,674 (1st Year \$41,674; 2nd Year \$50,000; 3rd Year \$50,000). Understanding Chronic Pain in Infancy. 2005-2008.

Stevens B, Lee S, Estabrooks C, Barwick M, Campbell F, Chambers C, Cummings G, Finley A, Johnston C, Kavanagh P, Latimer M, LeMay S, McGrath P, Rashotte J, Scott-Findlay S, Stremler R, Stinson J, Synnes A, Willan A, Yamada J. CIHR Team in Children's Pain. CIHR Team Grant (\$5,928,858) 2006–2011.

Taddio A, Katz J, Beyene J, Ohlsson A, Shah V, Stevens B. Canadian Institutes of Health Research – Clinical Trial. \$450,547 (3 years). Effectiveness of Sucrose Analgesia in Reducing Pain Responses in Infants Born to Diabetic and Non-Diabetic Mothers: A Randomized Controlled Trial. 2003-2006.

Topopovec-Vranic J, Baker AJ. (Co-investigator), Canzian S, Cullen N, Cusimano M, Innis J, McFarlan A. Canadian Institutes of Health Research. Site Budget: \$99,652. Understanding the influence of pain management in the acute care of traumatic injury and its role in patients' health outcomes: Development of a multi-disciplinary research team. 2006-2007.

Wijesundera DN. Canadian Anesthesia Research Foundation. \$30,000 (1 year). The EPIC (Evaluating Perioperative Ischemia Reduction by Clonidine) Study: A randomized, double-blinded trial of clonidine for reducing cardiac morbidity and mortality following non-cardiac surgery. 2005-2006.

Wijesundera DN, Beattie WS, Karkouti K, McCluskey SA, Rubin B, Ivanov J. Canadian Anesthesia Research Foundation. \$30,000. The EPIC (Evaluating Perioperative Ischemia reduction by Clonidine) Study: A randomized, double-blinded trial of clonidine for reducing cardiac morbidity and mortality following non-cardiac surgery. 2005–2006.

Wijesundera DN. Canadian Institutes of Health Research. \$172,500 (3 years). Canadian Institutes of Health Research Clinician Scientist Award – Phase I. 2006-2009.

Wijesundera DN. Canadian Institutes of Health Research. \$82,500 (2 years). Canadian Institutes of Health Research Fellowship. 2004-2006.

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

Wijesundera DN. Canadian Institutes of Health Research (CIHR). Clinician Scientist Award – Phase I. \$172,500. Fellowship and Salary Award. 2005–2008.

Wolfson C, Kirklan S, Raina P, Gagliese L. Canadian Institutes of Health Research (CIHR). \$872,000/yr (2 years). Canadian longitudinal study on aging. 2004-2006.

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

Yang H, Beattie WS. Canadian Institutes of Health Research. \$6,000,000 to McMaster University (CCC) (5 years). POISE Study. Peri-Operative Ischemic Evaluation Study. CIHR funded study assessing the effect of perioperative metoprolol of post operative cardiac outcomes. 2002-2007.

Zhang H. (Principal Investigator) Canadian Institutes of Health Research (CIHR). \$553,615. Human neutrophil peptides in lung inflammation. 2004-2009.

Zhang H. (Principal Investigator) Canadian Institutes of Health Research (CIHR), operating Grant, New Investigator Award. \$275,000. Human neutrophil peptides in lung inflammation. 2005-2010.

Zhang H. (Principal Investigator) Premier's Research Excellence Award. \$159,000. Targeting ICAM-1/LFA-1 interaction in reducing sepsis-induced lung injury. 2005-2010.

Zhang H. (Principal Investigator) Canadian Institutes of Health Research (CIHR). \$530,600. LPS internalization and ICAM-1 signaling in the pathogenesis of sepsis. 2005-2010.

Zhang H. (Principal Investigator) Ontario Thoracic Society (OTS). \$50,000. Targeting ICAM-1/LFA-1 interactions for controlling lung parenchymal-immune cell crosstalk during inflammatory responses. 2005-2007.

NON PEER REVIEWED GRANTS

Chan VW, McCartney C. Delex Therapeutics. \$50,000. A Phase II, 2-part, multi-center, placebo-controlled, randomized study with open-label lead-in of the safety and efficacy of AeroLEF versus inhaled placebo for the treatment of post-operative pain. 2006.

Chung F, Wong D. GlaxoSmithKline. \$70,000. Multicenter, Randomized, Double-blind, Placebo-controlled, Dose-ranging, Parallel Group Phase II Study to Evaluate the Safety, Efficacy, and Pharmacokinetics of the Oral Neurokinin-1 Receptor Antagonist, GW679769, When Administered with Intravenous Ondansetron Hydrochloride for the Prevention of operative Nausea and Vomiting (PONV) and Post-discharge Nausea and Vomiting (PDNV) in Female Subjects with Known Risk Factors for PONV Who are Undergoing Surgical Procedures Associated with an Increased Emetogenic Risk. 2005-2006.

Currie N, Duon B, Jadad A. The Agricultural Adaptation Council of Canada. \$541,247/yr (2 years) To Your Good Health. 2005-2006.

Evans, AW. Diabetic Limb Salvage – Education. \$96,000 yr. Toronto Community Foundation. 2005-2006.

Faclair, G. AstraZeneca. \$60,000.00. A Real-Life, Prospective, Observational, Multicenter Study of Health Outcomes in the Treatment of Painful Diabetic Polyneuropathy and Posttraumatic Neuralgia in the Context of Routine Clinical Care.

Faclair, G. Merck Frosst Canada and Co. \$10,000.00. Measuring Herpes Zoster and Post-Herpetic Neuralgia Associated Burden of Illness and Health Care Utilization and Costs in Canada: A Clinical Epidemiological Study.

Faclair, G. Neurogesy X Incorporated, San Carlo, USA: \$58,000.00 (Pending). Multicenter Randomized, Double-Blind, Controlled Study of NGX-4010 for the Treatment of Post-Herpetic Neuralgia.

Gabriel R, Huner O, Jadad A. Instituto Carlos III, Spain. € 200,000. Integrating Diverse Sources of Information to Support Research and Management Decisions in the Spanish-speaking World (The CORE Platform at Hospital La Paz, Madrid), 2005-2006.

Jadad AR, Hohenadel J, et. al. Private donor. \$1,000,000 (3 years). The Virtual Clinic: Bridging the High-Tech and the High-Touch to Enhance the Patient-Health Professional Relationship. 2002-2005.

Jadad AR, Heller L, Gospodarowicz M, on behalf of the eUiCC. Purdue Pharma and affiliated companies. US\$ 190,000 (2 years). eToolkits: Internet-based Tools for the Improvement of Cancer Pain Management Worldwide. 2004-2005.

Jadad AR, Bayne J, et. al. Canada Health Infoway. \$250,000. Developing an Interoperable Electronic Health Record Collaboratory: Refining the for Global eHealth Innovation. 2005.

Jadad AR, Deshpande A, Cafazzo J, Bayne J. HP and Bell Canada. \$200,000. The physician office of the future. 2005.

Jadad AR, Anderson M, Kaur R, Bayne J, Ivey R, Giokas D, Alvarez R, et al. Canada Health Infoway. \$661,300 start up funds. The eHealth Collaboratory. 2005.

Stewart S, Katz J. Ontario Problem Gambling Research Centre. \$176,880 (2 Years). Gambling Behaviour in Undergraduate Students: Understanding the Role of Motives, Affect Regulation and Cognition. 2004-2006.

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