

DEPARTMENT OF ANESTHESIA  
AND PERIOPERATIVE  
MEDICINE



Schulich  
MEDICINE & DENTISTRY



Western

*The University of*  
Western Ontario

ANNUAL  
REPORT

JULY 1, 2008 - JUNE 30, 2009

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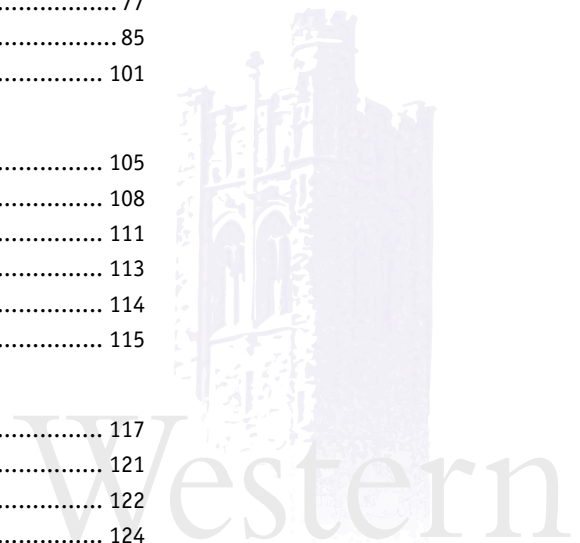
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# CHAIR/CHIEF REPORT



Department Chair/Chief  
Davy Cheng, MD, MSc, FRCPC, FCAHS

*The Vision and Mission of the Department of Anesthesia and Perioperative Medicine, London Health Sciences Centre and St. Joseph's Health Care, London, The University of Western Ontario is to be an internationally acclaimed academic department in anesthesia, pain management and critical care. We strive to provide exemplary patient care and foster excellence in anesthesia delivery, research and education at the undergraduate and postgraduate levels, and in continuing medical education at regional, national and international levels.*

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The Department of Anesthesia and Perioperative Medicine (Department) of the Schulich School of Medicine & Dentistry, The University of Western Ontario (UWO) consists of 78 Departmental faculty members who practice at the teaching hospital sites of the London Health Sciences Centre (University Hospital and Victoria Hospital) and St. Joseph's Health Care, London. The Department provides clinical support to 40 operating rooms/day at both London Health Sciences Centre (University and Victoria Hospitals), and St. Joseph's Health Care, London. We also provide the spectrum of medical care from conducting preoperative anesthesia assessment to performing the most advanced life-supporting techniques in all perioperative settings such as subspecialty surgery, ambulatory surgery, obstetrics, pediatric care, out-of-OR interventional procedures, acute and chronic pain management, blood conservation management, post-anesthetic care unit, cardiac surgery recovery unit and intensive care units. In particular, the CSTAR (Canadian Surgical Technologies & Advanced Robotics) Research and Training Centre at the London Health Sciences Centre, UWO, is a national centre of excellence for advanced surgical and anesthesia training and research in minimally invasive surgical procedures such as cardiac, thoracic, urological, general and fetal surgery. The CSTAR also received a three year accreditation by the American College of Surgeons' Program for Accreditation of Education Institutes. This provides an excellent training facility and program for anesthesia in the latest and most advanced minimally invasive surgery management.

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The Department provides teaching and training to undergraduate and postgraduate trainees in anesthesia and allied health care fields both at UW0 and the Out-Reach Community Program. The Department is well known for its clinical and research excellence in cardiac anesthesia, neuroanesthesia, transplantation, critical care, perioperative blood management, and pain medicine. The Department has been attracting clinical/research fellows and visiting scholars from around the world (Australia, New Zealand, UK, USA, Germany, Singapore, Korea, China, Japan, Columbia, and Saudi Arabia) for training in anesthesia and perioperative medicine, as well as critical care medicine.

## RECRUITMENT AND RETENTION

The anesthesia human resource planning at our London teaching hospitals continues to meet the rising demand of OR and non-OR anesthesia services, as well as the provincial wait list access pressure. The Department continues its target recruitment and retention policy, working together with LHSC/SJHC, UW0 and Ministry of Health and Long-Term Care (MOHLTC) to improve job satisfaction and academic excellence. Resource initiatives such as a Citywide Anesthesia Academic Practice Plan, AFP Phase 3, HOCC, Academic IMG and Fellowship Program, Anesthesia Care Team Program, and restructuring transition support from institutions continue to enhance the development of the Department. The Department has been very successful in recruiting and retaining our graduating residents/fellows with significant contributions to the academic mandates in their career development.

Three new faculty members joined the Department during this academic year.

### **Dr. Arif Al-Areibi, MSc MD FRCPC**

Dr. Arif Al-Areibi completed his residency in our Department and successfully passed the Royal College exams in June 2008. Dr. Al-Areibi completed his medical degree and training in Libya, and later attained a Master of Science in Physiology at Garyounis University, Libya. Dr. Al-Areibi joined our Department in September 2008 as a full-time consultant and is committed to education development in the Department.

#### **Dr. Ronit Lavi, MD**

Dr. Ronit Lavi joined our Department on August 1, 2008. Dr. Lavi completed her medical degree and residency training in Israel (Rappaport Faculty of Medicine, and Rambam Medical Centre, Haifa, Israel). Following her training, she completed a Research Fellowship in the Division of Nephrology and Hypertension at the Mayo Clinic College of Medicine, Rochester, MN from January 2006 to June 2007. She completed a one year Clinical Fellowship in cardiac anesthesia and intensive care at Toronto General Hospital before being recruited as a faculty consultant in our Department. Dr. Lavi focuses on clinical anesthesia research in cardiac surgery and interventional cardiology.

#### **Dr. Luminita Tureanu, MD FRCPC**

Dr. Luminita Tureanu was a Regional Anesthesia Fellow in our Department for one year prior to joining our Department as a faculty consultant (regional anesthesia and pain medicine) in August 2008. She completed her medical degree, internship and residency in Romania in the specialization of obstetrics and gynecology. Later in 2002, she began an anesthesiology residency in Chicago, IL at the John H Stroger Jr. Hospital, and following that, completed a Fellowship in pain medicine at the same hospital. Dr. Tureanu's research interest is in regional anesthesia and pain medicine.

Two future recruits are planned for the 2009/2010 academic year. They are:

#### **Dr. Geoff Bellingham, MD FRCPC**

Dr. Geoff Bellingham completed his medical education and the Anesthesia Residency Program at The University of Western Ontario. In June 2009, he completed a one year Clinical Fellowship in chronic pain management at the University of Toronto. He was recruited to London in August 2009 to join our Department, working in the area of chronic interventional pain management.

#### **Dr. Thomas Howlett, MB BCh BAO FCARCSI**

Dr. Thomas Howlett will be joining our Department as a full-time consultant in May 2010 and will be focusing on pediatric anesthesia practice and education at the Children's Hospital at LHSC. He completed his medical training at the National University of Ireland, Galway and is a Fellow of the Irish College of Anaesthetists. In addition, he has completed the Diplomat in Intensive Care Medicine with the Irish Board of Intensive Care Medicine, and has spent two years as a Clinical Fellow in pediatric anesthesia and intensive care medicine at the Hospital for Sick Children in Toronto, ON. Dr. Howlett's practice will focus in pediatric anesthesia and pediatric critical care in the Department.

## FELLOWSHIP

The Fellowship Program as directed by Dr. Rosemary Craen, includes a broad scope of academic programs, provides excellent clinical exposure, as well as teachers and mentors in research. In this academic year, the program includes 8 - 10 fellows (cardiac anesthesia, neuroanesthesia, regional anesthesia and pain, transplantation, and obstetric anesthesia).

## ADMINISTRATION

Department faculty continue to contribute an important role in administrative functions outside the Department.

**Dr. John Fuller** as Medical Director of Perioperative Care, SJHC and a member of the RCPSC Council including as Chair of the Regional Advisory Committee of the RCPSC;

**Dr. Bill Sischek** as the Chair of LHSC Credential Committee;

**Dr. Ron Butler** as Site Chief of ICU, LHSC University Hospital, Director of the Cardiac Surgery Recovery Unit, and Vice-President of Professional Staff Organization at LHSC;

**Dr. Michael Sharpe** as the Critical Care Advisor at Southwestern Local Health Integrated Network (LHIN);

**Dr. Fiona Ralley** as the Medical Director of the Perioperative Blood Conservation Program at LHSC;

**Dr. Neal Badner** as Chair of the Research Committee of the Canadian Anesthesiologists' Society.

**Dr. Sal Spadafora** has been appointed as a Corresponding Member (General) of the Anesthesia Examination Board of the RCPSC for a two-year renewable term. He is also being appointed as the Associate Dean of Postgraduate Education in the Schulich School of Medicine & Dentistry, UWO.

**Dr. Jim Watson** is the Medical Director of the Respiratory Therapist Program at Fanshawe College and the Anesthesia Assistant Program at London teaching hospitals; he is also an Executive Committee Member of the Anesthesia Section of the Ontario Medical Association.

**Dr. Davy Cheng** continues his active advisory roles on many committees at the London teaching hospitals, University, LHIN, MOHLTC, and National and International anesthesia societies. Recently, he was also elected as Chair of the Management Committee amongst the 16 University Chairs in the Association of Canadian University Departments of Anesthesia (ACUDA).

## CLINICAL

The Citywide Department has numerous areas of strong clinical activities including transplantation, vascular and thoracic anesthesia, acute pain and regional anesthesia, chronic pain program, critical care, obstetric anesthesia, pediatric anesthesia, etc. in addition to the well known programs of robotic surgery, cardiac anesthesia, neuroanesthesia and perioperative blood conservation. These focused clinical programs continue to develop and expand in the city under the leadership of our site chiefs, Dr. Chris Harle (LHSC-UH), Dr. Neal Badner (LHSC-VH) and Dr. Ian McConachie (SJHC).

## EDUCATION

The Postgraduate Education Program under the Directorship of Dr. Jeff Granton and Associate Directorship of Dr. Sandra Katsiris continues to thrive and grow, with 47 anesthesia residents and 34 off-service residents hosted from other residency training programs. Residents achieve continued success at the Royal College examinations. The program offers general and sub-specialty rotations (chronic pain, cardiac, neuro, ambulatory, regional, obstetric, thoracic, vascular, pediatric, and preadmission clinic). The Simulation Program at CSTAR led by Dr. Richard Cherry is now an integral and very popular part of training for the residents and medical students. New rotations in airway management, acute pain and in Cardiac Surgery Recovery Unit are being implemented. Rotations throughout Southwestern Ontario (SWOMEN) are offered to residents. Our Department pioneers medical curriculum in palliative medicine and end-of-life care in a critical care setting to the medical



students and residents under the leadership of Dr. Valerie Schulz. Our Continuing Medical Education Program under the leadership of Dr. Ian Herrick and Dr. Mary Lampe feature invited professorships from top academic institutions to our Department.

## RESEARCH

The Department is committed to enhancing academic productivity and resources including protected time and clinical access to research cases. The Department is ranked among the top in peer-reviewed publications in academic anesthesia departments in Canada. The investigators have been successful in peer-review research grants and contract grants annually. The Department continues to build on the strengths of several outstanding academic programs: Cardiac Anesthesia and post Cardiac Surgical Recovery Unit (Drs. John Murkin, Daniel Bainbridge, Ron Butler, Ivan Iglesias, Phil Jones, Ronit Lavi, Davy Cheng); Critical Care Medicine (Drs. Michael Sharpe, Lois Champion, Ron Butler, Ravi Taneja); Neuroanesthesia (Dr. Rosemary Craen, Dr. Miguel Arango); Transplantation (Dr. Achal Dhir, Dr. Wojciech Dobkowski), Regional Anesthesia and Pain Program (Drs. Su Ganapathy, Pat Morley-Forster, Shalini Dhir, Kevin Armstrong); Evidence-Based Perioperative Clinical Outcomes Program (EPiCOR) (Drs. Janet Martin, Daniel Bainbridge, Davy Cheng); Perioperative Blood Conservation Program (Dr. Fiona Ralley); Airway and Simulator Program (Dr. Tim Turkstra, Dr. Richard Cherry). New academic programs are being developed such as the Clinical Pharmacology (Dr. Craig Railton), Coagulations, and Thoracic/Vascular Programs. Recruitment is targeted at individuals with demonstrated academic and research productivity. The expansion of the Fellowship Program has also resulted in increased academic productivity. Residents play an active role in research and presentations (poster and oral) at the Resident Research Day (co-ordinated by Dr. Indu Singh) held jointly each year with the Anesthesia Program at McMaster University. The Canadian Anesthesiologists' Society Annual Meeting was also well represented by our Residents and Faculty.

## ACHIEVEMENTS AND AWARDS

### **Dr. Timothy Turkstra**

Top Research Presentation at the 2008 Society for Airway Management Annual Meeting

**Dr. Collin Clarke**

CAS/Vitaaid-LMA Residents' Research Award 2008

Neuroimaging of Lidocaine-induced Analgesia in Complex Regional Pain Syndrome

**Dr. John Murkin**

Canadian Anesthesiologists' Society Research Recognition Award 2008

For outstanding contributions to the knowledge base of our specialty through research into Protection of the Brain During Cardiac Surgery

**Dr. Collin Clarke**

Awarded second prize of the 2009 CAS Residents' Competition

Virtual Reality Imaging with Real-Time Ultrasound for Facet Joint Injection – Proof of Concept; supervisor Dr. Daniel Bainbridge

**Dr. Ronit Lavi**

Canadian Anesthesiologists' Society, David S. Sheridan Research Award 2009

Sevoflurane Sedation During Primary PCI Intervention

**Dr. Jeff Granton**

Canadian Anesthesiologists' Society, John Bradley Young Educator Award 2009

In recognition of outstanding contributions to anesthesia medical education as a master clinician, academic clinical scientist and learner-centred teacher

**Dr. Steven Dain**

CSA Member Appreciation Award 2009 by the Canadian Standards Association

In recognition of his 16 years of Leadership Excellence and participation in the development of the Canadian National and International standards for medical equipment and clinical engineering

**Dr. Sugantha Ganapathy**

Recipient of the YMCA Women of Excellence Award 2009

In the area of Health, Science and Technology

**Dr. Davy Cheng**

The Outstanding Contribution Award, honoured at the 30<sup>th</sup> Anniversary meeting of the Chinese Society of Anesthesiology and the Chinese Medical Association, for the outstanding contribution to the development of Anesthesiology in China (other USA/Europe recipients: Drs. Ron Miller, Adrian Gelb, Paul White, Alex Evers, Mervyn Maze, Anneke Meursing).





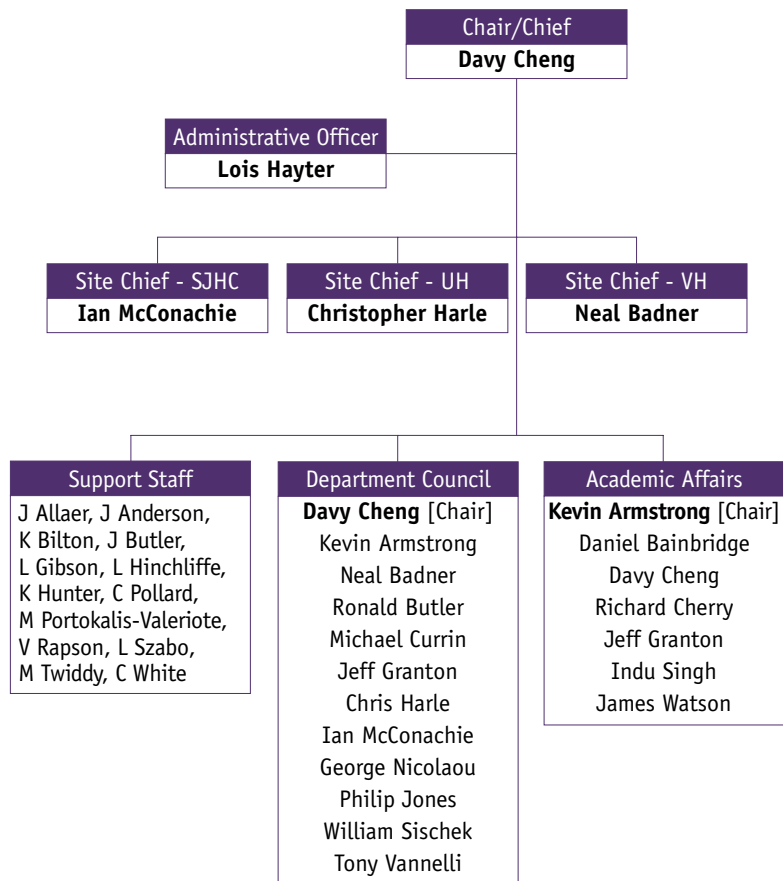
# ANESTHESIA PROCEDURES AT LONDON TEACHING HOSPITALS

	Adult Surgical	Pediatrics	Obstetrical/Gynecology	Cardiac
St. Joseph's Health Centre	17,017	60	1,513	0
University Hospital	9,282	138	0	1,481
Victoria Hospital	15,169	6,150	2,779	0
Total	41,468	6,348	4,292	1,481

Cataract	Major Vascular Surgery	Thoracic	Neurosurgical	Epidural/Spinal Blocks	Regional Blocks
4,160	0	0	0	300	1,500
0	1	4	1,096	929	113
0	1,056	709	190	96	36
4,160	1,057	713	1,286	1,325	1,649



# ORGANIZATIONAL CHART



Education Programs	Academic Programs	
<b>Undergraduate</b> T Vannelli [Director] P Batohi [SJHC] I Iglesias [LHSC - UH] J Hoogstra [LHSC - VH]	<b>Acute Pain and Regional Anesthesia</b> K Armstrong [Director] S Ganapathy [Research Director]	<b>Ambulatory Anesthesia</b> I McConachie [Director]
		<b>Liver Transplant</b> W Dobkowski [Director]
<b>Postgraduate</b> J Granton [Director] S Katsiris [Associate Director] P Armstrong [SJHC] R Craen [LHSC - UH] R Gverzdys [LHSC - VH] I Singh [PGE Research Coordinator]	<b>Anesthesia Care Team</b> J Watson [Director]	<b>Medical Informatics</b> S Dain [Director]
	<b>Cardiac Anesthesia</b> D Bainbridge [Director] J Murkin [Research Director]	<b>Neuroanesthesia</b> R Craen [Director]
	<b>Chronic Pain</b> P Morley-Forster [Director]	<b>Obstetrics</b> S Katsiris [Director]
<b>Fellowship</b> R Craen [Director]		<b>Palliative Medicine</b> V Schulz
<b>Continuing Medical Education</b> I Herrick [Director]	<b>Critical Care</b> R Butler [CSRU] R Butler [LHSC-UH-ICU] J Fuller [LHSC-VH-CCTC]	<b>Pediatric Anesthesia</b> L Coveney [Director]
<b>Critical Event Simulation</b> R Cherry [Director] R Butler L Champion B Church J Granton	<b>Evidence Based Perioperative Clinical Outcomes Research</b> D Cheng [Director] J Martin [Associate Director] D Bainbridge [Associate Director]	<b>Perioperative Blood Conservation</b> F Ralley [Director]
		<b>PreAdmission Clinic</b> N Badner [LHSC-VH] R Bhandari [LHSC-UH] J Parkin [SJHC]
		<b>Thoracic/Vascular Anesthesia</b> G Nicolaou [Director]



# FACULTY MEMBERS

**Ahmad, Mohamad**

Victoria Hospital  
Assistant Professor

**Al-Areibi, Arif**

Victoria Hospital  
Assistant Professor

**Anderson, Ian**

Victoria Hospital  
Associate Professor

**Arango, Miguel**

University Hospital  
Assistant Professor

**Armstrong, Kevin**

University Hospital  
Associate Professor

**Armstrong, Paidrig**

University Hospital  
Assistant Professor

**Badner, Neal**

Victoria Hospital  
Associate Professor

**Bainbridge, Daniel**

University Hospital  
Associate Professor

**Banner, Robert**

St. Joseph's Health Care  
Assistant Professor

**Batohi, Pravin**

University Hospital  
Assistant Professor

**Batorowicz, Maria**

St. Joseph's Health Care  
Assistant Professor

**Bernadska, Ewa**

St. Joseph's Health Care  
Assistant Professor

**Bhandari, Rakesh**

University Hospital  
Associate Professor

**Block, Gary**

Victoria Hospital  
Assistant Professor



**Briskin, Alexander**

Hôtel Dieu-Grace, Windsor  
Assistant Professor

**Butler, Ron**

University Hospital  
Associate Professor

**Champion, Lois**

University Hospital  
Professor

**Cheng, Davy**

University Hospital  
Professor

**Cherry, Richard**

Victoria Hospital  
Associate Professor

**Church, Brian**

Victoria Hospital  
Assistant Professor

**Coveney, Lynn**

Victoria Hospital  
Assistant Professor

**Craen, Rosemary**

University Hospital  
Associate Professor

**Cuillerier, Daniel**

University Hospital  
Associate Professor

**Currin, Michael**

St. Joseph's Health Care  
Assistant Professor

**Dain, Steven**

University Hospital  
Associate Professor

**Dhir, Achal**

University Hospital  
Associate Professor

**Dhir, Shalini**

St. Joseph's Health Care  
Assistant Professor

**Dobkowski, Wojciech**

University Hospital  
Associate Professor

**Fuller, John**

St. Joseph's Health Care  
Associate Professor

**Ganapathy, Sugantha**

University Hospital  
Professor

**Gordon, Neil**

Victoria Hospital  
Assistant Professor

**Granton, Jeff**

University Hospital  
Assistant Professor

**Gros, Michelle**

St. Joseph's Health Care  
Assistant Professor

**Gverzdys, Rooney**

Victoria Hospital  
Associate Professor

**Harle, Christopher**

University Hospital  
Assistant Professor

**Herrick, Ian**

University Hospital  
Associate Professor

**Hinds, Llynda**

St. Joseph's Health Care  
Adjunct Professor

**Hoogstra, Jason**

Victoria Hospital  
Assistant Professor

**Iglesias, Ivan**

University Hospital  
Associate Professor

**Imasogie, Ngozi**

St. Joseph's Health Care  
Assistant Professor

**Jones, Philip**

University Hospital  
Assistant Professor

**Katsiris, Sandra**

Victoria Hospital  
Associate Professor

**Kutt, Judith**

University Hospital  
Associate Professor

**Lampe, Mary**

University Hospital  
Associate Professor

**Lavi, Ronit**

University Hospital  
Assistant Professor

**Lindsay, Peter**

Victoria Hospital  
Assistant Professor

**Lobb, Trevor**

Victoria Hospital  
Associate Professor

**McCabe, Greg**

Victoria Hospital  
Assistant Professor

**McConachie, Ian**

St. Joseph's Health Care  
Associate Professor

**McKishnie, Jamie**

St. Joseph's Health Care  
Associate Professor

**McNamara, Jeffery**

Victoria Hospital  
Assistant Professor

**Mezon, Bernie**

University Hospital  
Associate Professor

**Millman, Logan**

St. Joseph's Health Care  
Adjunct Professor

**Morley-Forster, Pat**

St. Joseph's Health Care  
Associate Professor

**Morrell, Bobbi Jo**  
Victoria Hospital  
Assistant Professor

**Murkin, John**  
University Hospital  
Professor

**Newton, Peter**  
Victoria Hospital  
Assistant Professor

**Nicolaou, George**  
Victoria Hospital  
Associate Professor

**Ower, Katherine**  
Victoria Hospital  
Assistant Professor

**Parkin, John**  
St. Joseph's Health Care  
Associate Professor

**Rachinsky, Maxim**  
St. Joseph's Health Care  
Assistant Professor

**Railton, Craig**  
Victoria Hospital  
Assistant Professor

**Ralley, Fiona**  
University Hospital  
Professor

**Schulz, Valerie**  
University Hospital  
Associate Professor

**Sharpe, Michael**  
University Hospital  
Professor

**Simon, Gary**  
Victoria Hospital  
Assistant Professor

**Singh, Indu**  
University Hospital  
Associate Professor

**Sischek, Bill**  
Victoria Hospital  
Associate Professor

**Smith, David**  
Victoria Hospital  
Associate Professor

**Spadafora, Sal**  
University Hospital  
Associate Professor

**St-Amand, Marc**  
University Hospital  
Associate Professor

**Taneja, Ravi**  
University Hospital  
Associate Professor

**Teague, Kevin**  
Victoria Hospital  
Assistant Professor

**Tilsworth, Richard**  
Victoria Hospital  
Assistant Professor

**Turkstra, Tim**

University Hospital  
Assistant Professor

**Vannelli, Tony**

University Hospital  
Associate Professor

**Watson, James**

St. Joseph's Health Care  
Associate Professor

**Wexler, Ron**

St. Joseph's Health Care  
Associate Professor

## PROFESSORS EMERITUS

Bain, J A  
Gelb, A W  
Hersey, L W  
Muir, J M  
Nielsen, J S  
Sellery, G R  
Varkey, G P

## ADJUNCT PROFESSORS - RURAL REGIONAL

**St. Thomas-Elgin General Hospital**

Bidinot, H  
McNeill, B  
Menlove, J  
Soderman, M  
Warnock, T F

## ADJUNCT PROFESSORS - WINDSOR

Alsaden, M

Anand, S

DaSilva, S

De Dios, O

Doerksen, D

Gnanendren, K

Liolli, A

Norayanan, K

Roberts, A

Salem, E

Smith, J

Taylor, W



St. Joseph's Health Care  
G A Huot Surgical Centre



# CLINICAL/RESEARCH FELLOWS AND RESIDENTS

## FELLOWS

### **Sunisa Prapaitrakool**

Thammasart University Hospital  
Pathumthani, Thailand

### **Parthasarathi Gayatri**

Bangalore University  
Karnataka, India

### **Nayer Youssef**

Misr Radiology Center  
Cairo, Egypt

### **Debashis Roy**

All India Institute of Medical Sciences  
New Delhi, India

### **Hesham Youssef**

Ain Shams University  
Cairo, Egypt

### **Tariq Jilani**

King Abdul Aziz University Hospital  
Jeddah, KSA

### **Samer Al-Ghazaly**

Magrabi Eye and ENT Hospital  
Giza, Egypt

### **Sanjib Adhikary**

Berhampur University  
India

### **Ravi Kumbharathi**

NTR University of Health Sciences  
India

### **Francis Loh**

Monash University  
Australia

### **Kathy Fang - Sun**

Yat-Sen University  
China

### **Kate Bennett**

University of British Columbia  
Vancouver, Canada

### **Marcos Silva**

Universidad del Valle  
Colombia

## RESIDENTS

Dr. Hanan Al-Turkistany	PGY5	Dr. Shawn Marshall	PGY3
Dr. Andreas Antoniou	PGY4	Dr. Amna Masood	PGY4
Dr. Laura Ashcroft	PGY2	Dr. Tim Maxwell	PGY3
Dr. Jon Borger	PGY3	Dr. Kevin McKeown	PGY2
Dr. Ida Bruni	PGY4	Dr. Frank Min	PGY5
Dr. Collin Clarke	PGY4	Dr. Cristiana Miron	PGY2
Dr. Corina Constantinescu	PGY3	Dr. Steven Morrison	PGY1
Dr. Catherine Delbridge	PGY3	Dr. Sanjay Patel	PGY1
Dr. Joanna Dion	PGY1	Dr. Tom Quach	PGY2
Dr. George Evans	PGY5	Dr. Ali Rassouli	PGY2
Dr. Vanessa Fantillo	PGY4	Dr. Kenneth Ryan	PGY3
Dr. Lou Fraser	PGY5	Dr. Amanda Schwartz	PGY1
Dr. Andre Gauthier	PGY1	Dr. Ryan Smith	PGY1
Dr. Camille Goure	PGY3	Dr. Amanda Smitheram	PGY3
Dr. Fadi Hannouche	PGY5	Dr. David Sommerfreund	PGY1
Dr. Patricia Kolesnichenko	PGY3	Dr. Marc Stalder	PGY1
Dr. Phil Kruger	PGY3	Dr. Danielle Stothart	PGY4
Dr. Peter Kuszewski	PGY1	Dr. Dorothy Tam	PGY3
Dr. Susan Lee	PGY2	Dr. Diem Tran	PGY5
Dr. Mark Lewis	PGY5	Dr. Laura Wakely	PGY2
Dr. Peter Mack	PGY5		
Dr. Kristine Marmai	PGY4		



Al-Turkistany



Antoniou



Ashcroft



Borger



Bruni



Clarke



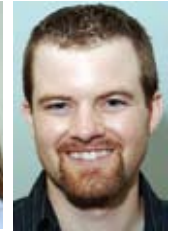
Constantinescu



Delbridge



Dion



Evans



Fantillo



Fraser



Gauthier



Goure



Hannouche



Kolesnichenko



Kruger



Kuszewski



Lee



Lewis



Mack



Marmai



Marshall



Masood



Maxwell





McKeown



Min



Miron



Morrison



Patel



Quach



Rassouli



Ryan



Schwartz



Smith



Smitheram



Sommerfreund



Stalder



Stothart



Tam



Tran



Wakely



# SITE CHIEF REPORTS



Site Chief  
St. Joseph's Health Care, London  
Ian McConachie

## ST. JOSEPH'S HEALTH CARE, LONDON

St. Joseph's Health Care, London is a major teaching facility within The University of Western Ontario, Department of Anesthesia and Perioperative Medicine. Dr. Ian McConachie succeeded Dr. John Fuller as Site Chief in December 2008.

Approximately 20,000 surgical cases are performed each year in our modern, fully equipped operating rooms. The surgical focus is on the Hand and Upper Limb Centre, Endourology, Ophthalmology, ENT, General Surgery, Gynecology, Plastic Surgery and care of dental patients. St Joseph's is one of only a few sites in Canada offering Robotic Assisted Laparoscopic Surgery for both Urology and Gynecology patients. The Department also offers an Acute Pain Service. The majority of patients are ambulatory though some inpatient beds have been retained. St. Joseph's Health Care currently acts as the Tertiary Care Obstetrical Level III Centre performing about 3,500 deliveries per year. In addition, in 2009 the Department at St. Joseph's Health Care became responsible for provision of anesthesia for ECT service at the Regional Mental Health Centre. The actual service is provided by practitioners from all three sites within the city.

The major areas of subspecialty training are regional anesthesia, obstetrics and ambulatory anesthesia with chronic pain management offered through the Earl Russell Multidisciplinary Pain Centre. Fellowships are available in regional anesthesia, obstetric anesthesia and analgesia, chronic pain and, most recently, ambulatory anesthesia. The volume of high-risk obstetrical patients and surgical patients provide a very fertile learning and research ground in these areas of subspecialty care.

The Anesthesia Care Team project has been a major success at St. Joseph's Health Care, London. Their work enhances the efficiency of the Department, especially in the provision of care in the cataract suite. Further developments of this program are

targeted to the main operating room and enhancement of perioperative care.

An integrated surgical facility comprising modern operating rooms, preadmission clinic, surgical day care and PACU provides an excellent daily working environment. In addition, extensive renovations are nearing final completion which will offer expanded accommodation for our growing Department.

Internal reconstruction and modernizing of a substantial portion of the older building is underway, to improve facilities for the majority of clinical services at St. Joseph's Health Care, London. The new ambulatory surgical centre is a major portion of the restructuring effort and will provide a firm foundation for future study and care of ambulatory patients.

## UNIVERSITY HOSPITAL

At University Hospital we provide anesthesia in a variety of clinical areas. We have been able to maintain our level of service provision throughout the year through a combination of excellent human resources and flexibility from our consultant body and with support from our clinical fellows. There are 16 fully operational operating rooms where we provide anesthesia for cardiac surgery, neurosurgery, general surgery, orthopedics, sports medicine, plastic surgery, urology and ear, nose and throat surgery. Our services are also required for diagnostic and therapeutic procedures in the electrophysiology laboratory, neuro-radiology, cardiac angiography and percutaneous cardiac interventions. Furthermore, we have provided support for, as well as continued, our clinical activity in the preadmission clinic and acute pain service. We also provide 24-hour coverage for liver transplantation. We are very well represented in both the Medical/Surgical ICU and the Cardiac Surgery Recovery Unit consultants bodies.

Clinical and Academic Anesthesia programs and activities at University Hospital include:

### **Cardiac Anesthesia**

Dr. Daniel Bainbridge, Dr. Wojciech Dobkowski

### **Perioperative Transesophageal Echocardiography (TEE)**

Dr. Daniel Bainbridge, Dr. Ivan Iglesias



Site Chief  
University Hospital  
Christopher Harle

### **Neuroanesthesia**

Dr. Rosemary Craen

### **Liver Transplantation**

Dr. Wojciech Dobkowski

### **Acute Pain and Regional Anesthesia Service**

Dr. Kevin Armstrong, Dr. Rakesh Bhandari

### **Undergraduate Education**

Dr. Tony Vannelli, Dr. Ivan Iglesias

### **Anesthesia Rounds**

Dr. Achal Dhir

### **Continuing Medical Education Program**

Dr. Mary Lampe

### **Perioperative Blood Conservation Program**

Dr. Fiona Ralley

Dr. Rosemary Craen oversees the Fellowship Program for our citywide Department, as well as the Neuroanesthesia Fellowship. Dr. Achal Dhir and Dr. Wojciech Dobkowski run the Liver Transplant Anesthesia Fellowship Program, Dr. Ravi Taneja supervises the Cardiac Anesthesia Fellowship, and Dr. Kevin Armstrong and Dr. Su Ganapathy run the Regional Anesthesia Fellowship.

There are many clinical research projects both ongoing and recently completed at University Hospital. These activities are made possible because of the commitment and hard work of the physicians who conceive and conduct the research, and because the milieu of our institution supports academia.

## VICTORIA HOSPITAL

The Victoria Hospital, Department of Anesthesia provides clinical service for vascular, thoracic, orthopedic (trauma and spine), plastic including craniofacial, ENT, urologic, oncologic, general surgical and pediatric (ENT, general, urologic, neurosurgical and plastic) surgery. Victoria Hospital also provides anesthesia services to the secondary level obstetric unit in the city. The site's emphasis is clinical teaching of residents, medical students, and allied health professionals and includes the use of a newly operational simulator program.

### **Thoracic/Vascular Anesthesia**

Both subspecialties under the direction of Dr. George Nicolaou have flourished and remain popular as a resident rotation. Both services are leaders in endovascular approaches to their respective pathology. Several recent clinical research projects in these subspecialties have been completed, and others involving Video Assisted Thoracic Surgery (VATS), and pressure limited one lung ventilation are underway. A previous project led to a change in the postoperative epidural analgesia solution utilized.

### **Pediatric Anesthesia**

This division is under the guidance of Program Director, Dr. Lynn Coveney, with input from members of the Pediatric Anesthesia Interest Group. It currently supports three dedicated pediatric surgery ORs daily, as well as sedation for endoscopies/colonoscopies, MRIs, CT scans and diagnostic LP/bone marrow biopsies out of the OR three days per week. Further expansion of this service is planned. This division has implemented a "Parental Presence at Induction" Program, and expanded pediatric preoperative assessment and postoperative pain management. Pain management for pediatric patients with epidurals on the ward is offered. Residents and interested staff continue to participate in the nationwide telemedicine conferences hosted by the Hospital for Sick Children, Toronto.

### **Obstetrical Anesthesia**

Dr. Sandra Katsiris, the citywide Obstetrical Anesthesia Director, has successfully introduced a citywide standardized obstetrical anesthesia care approach including standardized epidural solutions, PCA and PCEA. The volume of births in this level 2 unit continues to increase, approaching 2,500 deliveries as final planning for the consolidation of all obstetrical anesthesia services in London to Victoria Hospital is underway. Construction at the location has begun for completion in March 2011.



Site Chief  
Victoria Hospital  
Neal Badner



# CLINICAL ACADEMIC PROGRAMS



Kevin Armstrong

## ACUTE PAIN MANAGEMENT AND REGIONAL ANESTHESIA/ANALGESIA

Acute Pain Management and Regional Anesthesia have been combined into one division as many of the anesthesiologists involved are active in both subspecialties and they both compliment each other well. Dr. Su Ganapathy and Dr. Kevin Armstrong are currently co-directors of the division. Dr. Armstrong is responsible for administrative and clinical deliverables and Dr. Ganapathy for research and fellowship in regional anesthesia and acute pain. They are assisted by co-ordinators at each site. The acute pain service co-ordinators are Dr. Rakesh Bhandari (UH), Dr. Kate Ower (VH) and Dr. John Parkin (SJHC). The regional anesthesia co-ordinators are Dr. Shalini Dhir (SJHC), Dr. Gary Simon (VH) and Dr. Tony Vannelli (UH).

### Clinical Care

The Acute Pain Service is active at all three teaching hospitals. Approximately 40 of our anesthesiologists provide daily care to inpatients requiring postoperative pain management or consultation. They are supported by two full-time nurse clinicians at LHSC and PACU nurses from all sites. There are between 30,000 and 40,000 patient visits per year.



Sugantha Ganapathy

Regional Analgesia, both neuraxial and peripheral nerve blockade, as part of multimodal analgesia is utilized for patients with pre-existing pain issues or those undergoing surgical procedures with associated significant postoperative pain. Peripheral nerve blockade as the primary anesthetic technique is practiced more selectively for procedures which lend themselves to this mode of anesthesia and analgesia. The greatest number of surgeries would occur, but is not limited, to orthopedic and plastic surgery procedures.

### **Fellowship Program**

Two clinical fellows completed the Fellowship in Regional Anesthesia. Dr. Adhikary has joined the University of Pennsylvania at Hershey, USA and Dr. Ravi Kumbharathi has joined the University of Manitoba. The fellowship positions for the coming two years are already filled with excellent candidates.

Dr. Sanjib Adhikary presented an abstract on the anatomic and US evaluation of the axillary nerve and suprascapular nerve at the annual ASRA meeting in November 2008.

Dr. Adhikary presented three abstracts at the Advanced Regional Anesthesia 2009, Invasive Pain Management Techniques and Regional Anesthesia Hands On Workshop organized by Wayne State University, Michigan in May 2009. His abstracts were

1. 3D Evaluation of Lumbar Plexus and Paravertebral Block
2. Anatomic and US Evaluation of the Axillary Nerve and Suprascapular Nerve for Shoulder Surgery
3. A Novel New Posterior Approach to the Catheterization of Supraclavicular Brachial Plexus

### **Quality Assurance**

The need for improved quality assurance is currently being addressed. In 2008 - 2009 Dr. Steven Dain, Dr. Kevin Armstrong and nurse clinician Cindy Carnegie together with support from the APS group have been working with the PowerChart team to develop bedside charting capabilities. This will allow charting of pertinent information "real time" during patient rounds, which will then be available for analysis at regular intervals. Great appreciation to Carol Hemphill (PowerChart team) for her time and expertise in this project. It is expected that a trial will occur early in the 2009 - 2010 year at University Hospital and subsequent role out to all sites by the end of the year.

### **Research Activities**

The division was involved in a multicentre trial on pregabalin for preventing chronic pain following inguinal herniorrhaphy sponsored by Pfizer.

Our division is one of the sites looking at the role of paravertebral block for breast cancer surgery on cancer spread, an outcomes group study from the Cleveland Clinic. Dr. Ganapathy and Dr. Tureanu were the lead investigators.



Ian McConachie

## AMBULATORY ANESTHESIA

The newest academic program offered within the Department is Ambulatory Anesthesia. St. Joseph's Health Care, London is the main site for ambulatory anesthesia within the city though surgical cases are performed on an ambulatory basis at all sites. A wealth of learning opportunities are offered in ambulatory anesthesia at St. Joseph's Health Care, London – the largest in numbers of cases of all the anesthetic subspecialties. A fellowship in ambulatory anesthesia may be available to a suitable candidate. Dr. McConachie is also the chair of the ambulatory anesthesia section of the Canadian Anesthesiologists' Society and is actively involved in the Canadian Ambulatory Anesthesia Research and Education Group (CAARE). As such, Dr. McConachie is the organizer for the ambulatory section events and lectures for the annual scientific meeting of the CAS. Dr. McConachie also reintroduced specific lectures in ambulatory anesthesia to the formal Residents' Lecture Program. Teaching is otherwise informal. Members of the group, led by Dr. Fuller are involved in research on postoperative monitoring of obstructive sleep apnea patients.



James Watson

## ANESTHESIA ASSISTANT

The past year has continued to build on the success of the Anesthesia Care Team. We have continued with the development of this program. Anesthesia Assistants have been integrated into the work routines of the Department with the cooperation of the entire Department. This has allowed us to reliably provide service for some of the key wait time initiatives such as cataract surgery. In the cataract suite we use a model of care where one consultant supervises two Anesthesia Assistants. Other AAs assist in the block room or monitor patients after major regional blockade or provide special assistance in the operating room for more complex cases. Care of patients outside the OR such as pediatric imaging and procedures, neuroradiology or electrophysiology labs have all benefited from having consistent, reliable assistance in these challenging environments.

In September 2008, Fanshawe College in London initiated a training program for Anesthesia Assistants. The first class has graduated. The Department of Anesthesia and Perioperative Medicine has been involved in the design of this program and has provided a significant amount of classroom and operating room instruction. During the Basic Program, run from September to December, most teaching is provided



by Fanshawe College instructors affiliated with the long-established Respiratory Therapy Department but this will change for the Advanced Program or second semester which runs from January to April. Most of the lectures and workshops are physician directed. Many of the senior anesthesia residents participated in teaching these courses and workshops. Residents and the participating faculty members found this to be a rewarding training experience. Enrollment has begun for next year's class.

The role of Anesthesia Assistants is generally becoming universal and has been recently adopted by the Canadian Anesthesiologists' Society. Currently, we are developing new models of care in areas where the Department has not had the human resources to provide coverage. This includes endoscopy and obstetrics with expanded invasive radiology. We have participated in provincial teams in association with the MOHLTC to further develop and define the roles within the Anesthesia Care Team. Review of the application of the ACT model have demonstrated a cost effective, safe and accepted model of care. We are currently awaiting approval from the Ministry of Health for funding to more formally explore and apply the ACT. This should greatly improve patient safety, efficiency and improve the working conditions for anesthesiologists.

## CARDIAC ANESTHESIA

The Cardiac Anesthesia Program underwent a reorganization bringing its members to a total of 20. The Fellowship Program continues with 3 - 4 Fellows under the direction of Dr. Ravi Taneja. The program has been modified to focus on intraoperative management with a one month rotation in the CSRU. The TEE Program continues under the direction of Dr. Iglesias, with the weekly Wednesday morning rounds continuing. This year saw the purchase of a 3D ultrasound machine in the cardiac ORs; the first of several to be purchased in order to upgrade the older machines.

The University Hospital cardiac group, under the leadership of Dr. John Murkin, successfully organized the annual "Outcomes" meeting, which over the years has become a well recognized international meeting. The cardiac group also organized the Annual Cardiac Team Meeting - a multidisciplinary, international conference designed to foster exchange and interaction between surgeons, clinical perfusionists and anesthesiologists. Again this year the meeting was held in Mont-Tremblant, QC.



Daniel Bainbridge



Ron Butler

## CARDIAC SURGERY RECOVERY UNIT

Since the establishment of this 14 bed Cardiac Surgery Recovery Unit at London Health Sciences Centre, University Hospital in March 2005, the cardiac surgery division was consolidated to the London Health Sciences Centre, University Hospital, performing about 1,400 cardiac surgeries per annum. The CSRU specializes in the postoperative care of patients who have had cardiovascular surgery such as bypass, valve replacements, heart transplantation and robotic cardiac surgery. This unit has state of the art equipment to meet the complex needs and fast track recovery of our cardiac surgical patients. The CSRU is medically staffed by cardiac anesthesiologists, critical care medicine, and cardiac surgery. The trainees consist mainly of anesthesia and cardiac surgery residents, critical care fellows, and cardiac anesthesia fellows. A nurse practitioner is also linking the long-term care patients in CSRU and the cardiac surgery ward. The CSRU provides excellent experience in postoperative cardiac surgery care both clinically and academically. A study led by Dr. Richard Novick (CSRU Associate Director and Chair/Chief of Cardiac Surgery) has demonstrated improved postoperative outcomes and morbidities in such specialized recovery units, rather than in the previous model of mixed medical/surgical intensive care units (Can J Anesth 54: 737-743, 2007). The progressive improvements in cardiac surgery patients in terms of morbidity and mortality have been verified at the Cardiac Care Network of Ontario since the establishment of the CSRU. Dr. Ron Butler was appointed as the CSRU Medical Director effective May 2008.

## CARDIAC TRANSESOPHAGEAL ECHOCARDIOGRAPHY [TEE]

As in previous years, 2008 - 2009 was another strong year for our service. Once more, all of our Fellows passed the NBE/PTe Exam, and we have to thank our faculty members for their dedication for our programs continued success in teaching Transesophageal Echocardiography (TEE). New equipment was acquired (Phillips IE33) and the program for renewal of our three old remaining units is supported by the Administration and will take place during the next three years bringing our resources to a more updated condition. The Department also owns a Sonosite unit that is being used for vascular access. Another unit will be acquired by the end of 2009 for better support to these procedures. We are pleased to state that most central catheters inserted at University Hospital are guided by ultrasound which keeps pace with the current recommendations to increase patient safety during these procedures.

The diagnostic support provided by the Intraoperative Echocardiography Service has a well established reputation among the different surgical groups and intensive care units and we have been able to help in many different scenarios in the OR in cardiac and non-cardiac surgical procedures but also in postoperative situations in intensive care. We will continue increasing our participation in the perioperative setting as the advantage of the information for diagnosis, monitoring and management of patients gained through the application of ultrasound becomes more widely applied in current medical practice.

Our service was created in 2002 under the leadership of Dr. Daniel Bainbridge. We are pleased to report that after six years our group has grown in quantity and quality with a total of 11 Consultants that currently hold either NBE Certified or Testamur status, a true privilege both in the number and the quality of the people that practice and teach echocardiography in our Department.



Ivan Iglesias



Patricia Morley-Forster

## CHRONIC PAIN

### Clinical Care

In 2009, an M-Turbo ultrasound machine was donated to the Pain Clinic via the St. Joseph's Health Care Foundation. This will enable more accurate placement of a number of blocks and avoid the need for fluoroscopic guidance of some procedures.

Dr. Geoff Bellingham will join the Anesthesia staff in July 2009 with a focus on chronic pain management. He spent a year in a Chronic Pain Fellowship at the Wasser Clinic, affiliated with the University of Toronto. Well-trained in ultrasound guided nerve and facet blocks, Dr. Bellingham also has an interest in peripheral neuropathic pain including pelvic pain.

### Education

Family Medicine Preceptorships are offered in the Pain Clinic for approximately 4 - 6 physicians each year.

Interdisciplinary Pain Rounds continue to be held on the fourth Wednesday of each month. A schedule of past and future speakers is available on our website [www.londonpain.ca](http://www.londonpain.ca).

A workshop on neuropathic pain diagnosis and management was held on October 24, 2008, for family physicians and pain specialists in the Southwestern Ontario region. Speakers were Drs. Pat Morley-Forster, Dwight Moulin (Neurology) and Bill McKeough (Family Medicine).

A multidisciplinary selective in Acute and Chronic Pain Management was offered to 100 fourth year medical students. (Dr. Neal Badner and Dr. Pat Morley-Forster). This selective has been offered since 2001.

### Clinical Research

The SJHC Pain Clinic participated in four pharmaceutical trials in 2008 - 2009. Starting in May 2007, 430 patients have been registered in the Neuropathic Pain Registry. This multi-centre project supported by Pfizer Canada will provide long-range data on outcomes of pharmacotherapy and interventional treatments for neuropathic pain. Patients who meet diagnostic criteria for central or peripheral neuropathic pain are enrolled and followed for 24 months using validated and comprehensive outcome measures. SJHC is the lead site collaborating with McGill

University, Mt. Sinai (University of Toronto), University of Calgary, and University of Ottawa. This study started enrollment in May 2007. Another ongoing research project is a study of MRI changes with intravenous lidocaine treatment in patients with chronic pain. Dr. Collin Clarke was awarded an Earl Russell Research Grant to conduct this study in patients with Complex Regional Pain Syndrome.

## CRITICAL CARE UNIVERSITY HOSPITAL – MSICU

The Critical Care Program at The University of Western Ontario is a multidisciplinary program that provides Royal College postgraduate training in Critical Care Medicine. Trainees gain experience caring for critically ill patients in the Richard Ivey Critical Care Trauma Centre (26 beds) at Victoria Hospital and the Medical Surgical Intensive Care Unit (24 beds) and the Cardiac Surgery Recovery Unit (14 beds) at University Hospital. There is exposure to a wide variety of clinical services within the program including: trauma, major vascular, thoracic, neurological, neurosurgical, transplant and cardiac. The program in critical care has a well-established educational program for trainees, which has been recognized for its excellence by the Royal College of Physicians and Surgeons. There are 17 faculty members within critical care with a range of clinical backgrounds including anesthesia, internal medicine, respirology, emergency medicine and surgery. Faculty members are involved in education, and basic science and clinical research.

If you are interested in postgraduate training, further details can be obtained by visiting our website: <http://www.lhsc.on.ca/programs/critcare/pge/>



Ron Butler



John Fuller

## CRITICAL CARE - STEP UP UNIT ST. JOSEPH'S HEALTH CARE, LONDON

The adult ICU at SJHC was successfully transferred to LHSC in April 2005, in keeping with the mission of hospital restructuring. Staff moved with the program, or found alternative positions within SJHC. It had been identified that there was a need to provide critical care support to certain subgroups of patients scheduled to be cared for at SJHC through to Milestone 2 of restructuring. These include major joint orthopedics, gynecology, and especially high-risk obstetrics. To meet this need, the concept of a "Step Up Capability" was developed for SJHC. This provides staff and physical plant, based from PACU, to intervene in the case of any patient requiring critical care service at SJHC. Staffing includes nurses from PACU, RRTs from the hospital pool, and physicians from the citywide Critical Care Program, with clinical assistant physicians in-house after hours. Patients who can be stabilized remain at SJHC, monitored by the Step Up team. The team transfers those who remained unstable or critically ill, to ICU (LHSC). The Step Up capability also provides the base for the cardiac arrest capability at SJHC, with expanded duties better described by its new name, the Medical Emergency Response Team (MERT).

The Step Up capability was inaugurated on April 25, 2005, coincident with closure of the SJHC ICU. Step Up has operated successfully since then. The numbers of patients and levels of acuity are almost exactly as predicted. This service has allowed continuation of the planned level of obstetric and surgical activity at SJHC. Data collection is ongoing to assist in developing medical emergency response services at SJHC beyond Milestone 2. A committee is currently in the process of developing mechanisms to support higher acuity patient care at SJHC beyond Milestone 2.

## EVIDENCE BASED PERIOPERATIVE CLINICAL OUTCOMES RESEARCH GROUP (EPiCOR)

The Evidence Based Perioperative Clinical Outcomes Research (EPiCOR) Group is a multi-disciplinary collaboration between Perioperative Medicine and Anesthesia, Surgery, Pharmacy, and Pharmacology whose mandate is to provide comprehensive systematic reviews, meta-analyses, and health technology assessments of new and existing technologies including medical devices and equipment, surgical and other interventional procedures, drugs and diagnostic techniques in order to inform important perioperative clinical and economic questions with the best available evidence.



Davy Cheng

The EPiCOR Group has completed research in the following areas:

- Perioperative Supportive Care
  - Patient Controlled Versus Nurse Controlled Analgesia
  - NSAIDs Versus Non-NSAID Multimodal Analgesia
  - Amiodarone Perioperatively
  - Postoperative Nausea and Vomiting
  - Perioperative Gastric Acid Suppression
  - Levosimendan for Prevention of Arrhythmia and Death
- Blood Conservation
  - Antifibrinolytics
  - Synthetic Colloids Versus Albumin
  - IV Irons
  - Cell Saver
- Minimally Invasive Surgical Methods
  - Off-Pump Versus On-Pump Coronary Artery Bypass Surgery
  - Endovascular Versus Open Vein Harvest for CABG (EVH)
  - Video-Assisted Thoracic Surgery (VATS)
  - Thoracic Endovascular Aortic Repair Versus Conventional Open Repair
- Innovative Surgical & Imaging Techniques
  - Stentless Valves Versus Conventional Valves for Aortic Valve Replacement
  - Multislice CT, MRI, TEE/TTE Ultrasound, Versus Angiography for
  - Aortic Dissection
  - Surgical AF Ablation (MAZE and related procedures)



Janet Martin



Daniel Bainbridge

### International Collaboration

In addition, EPiCOR has collaborated with other international groups to perform evidence-based systematic reviews and consensus statements. These forums provide a unique opportunity to teach surgeons, anesthesiologists and related healthcare personnel about evidence-based decision-making, meta-analysis and systematic review. The following areas have been addressed by EPiCOR-led consensus conferences

- Off-Pump Coronary Artery Bypass Surgery (OPCAB)
- Endovascular Vein Harvest (EVH)
- Transmyocardial Revascularization (TMR)
- Stentless Aortic Valves (SAV)
- Thoracic Endovascular Aortic Repair (TEVAR)
- Perioperative Colloids
- Minimally invasive mitral valve repair (ongoing)

### Presentations

EPiCOR research has been presented at conferences, research centres and universities locally and internationally. The EPiCOR Group also contributed to teaching opportunities and publications for the purpose of raising awareness of the need for evidence-based decision-making.

Presentations done this year include:

- Interpreting the Literature  
Evidence-Based Medicine & Clinical Trial Design  
Workshop Organizer and Presentation  
11<sup>th</sup> International Congress of Cardiothoracic and Vascular Anesthesia  
Berlin, Germany
- Meta-Analysis & Systematic Review  
Basic Principles and Application to Off-Pump vs On-Pump Bypass Surgery  
Workshop  
11<sup>th</sup> International Congress of Cardiothoracic and Vascular Anesthesia  
in Association with the German Society of Anesthesiology and Intensive Care  
Medicine and the Society of Cardiovascular Anesthesiologists  
Berlin, Germany



- Systematic Review & Meta-Analysis of Stentless Aortic Valves  
Presentation  
International Society of Minimally Invasive Cardiothoracic Surgery  
Annual Meeting  
Japan  
November 2008
- Decision-Making Tips to Increase Your Safety Net  
Presentation  
3<sup>rd</sup> Annual International Patient Safety Symposium  
Antalya, Turkey
- OPCAB Surgery: Do Elderly Patients Benefit More?  
International Medical Congress on Perioperative Care for the Geriatric Patient  
The Mt. Sinai School of Medicine, New York and Czech Society of Anaesthesiology  
and Intensive Care Medicine  
Prague, Czech Republic
- Making Difficult Decisions When the Stakes are High: Drug Formularies & Hospital  
Health Technologies  
Health Policy Showcase, Ivey School of Business  
The University of Western Ontario

## LIVER TRANSPLANTATION

The Liver Transplantation Group has been established in our Department for over 30 years. Presently, this group includes five cardiac anesthesiologists with subspecialty in liver transplantation (Drs. Dhir, Dobkowski, Harle, Rally and Vannelli).

This year we provided services to 76 liver transplant patients including 16 living related transplants. The Living Related Liver Transplant Program has been well developed at our centre. Our group is involved in preoperative assessment and qualification of these patients for transplantation procedures. Also, we provide services for patients undergoing liver resection and biliary tract surgeries.

Our Fellowship Program has been well-established for over 25 years. Every year we have two fellows who are involved in all clinical activities of the Department. This program includes a series of seminars, every two weeks, for fellows, consultants and residents, participation in preoperative assessment of all transplant patients during transplant rounds and in preadmission clinic. All fellows have the



Wojciech Dobkowski

opportunity and obligation to be involved in research projects. Also, our fellows participate in pediatric liver transplants, which are performed in London, at Victoria Hospital. Dr. Achal Dhir is the co-ordinator for this program.

Over the last five years, the LHSC - University Hospital Liver Transplantation Group, together with our colleagues from Toronto General Hospital, have co-organized a Transplantation Symposium at the CAS Annual Meeting.

In addition, we have developed a transplantation website which, we hope, will be a national discussion forum for all Canadian transplant anesthesiologists. This website will be in operation from January 2010.

Our plan includes organization of the Canadian Transplantation Interest Group and hopefully, in the future, a Transplantation Section at CAS.



Steve Dain

## MEDICAL INFORMATICS

Over the past year, Dr. Steven Dain has worked extensively with the medical device industry group “Integrating the Health Enterprise” or IHE as an advisor, educator and writer for the committees that are developing the computer to medical device data syntax for critical care ventilators ([http://wiki.ihe.net/index.php?title=PCD\\_RTM\\_Ventilator](http://wiki.ihe.net/index.php?title=PCD_RTM_Ventilator)) and other medical devices. This will allow the seamless interconnection of equipment from multiple vendors to work together with hospital information systems and other devices. Weekly telephone and internet (WEBEX) conferences along with the IHE Wiki has facilitated the work on this project.

Nora Aghbar, a Grade 11 co-op student from Oakridge Secondary School worked for 2.5 hours daily from January to June 2009 with Dr. Dain, International Chair, ISO Technical Committee 121, Subcommittee 3, and Marigo Portokalis, collating the over 500 technical definitions from the 72 ISO (Organization for International Standardization) anesthesia, critical care and respiratory care standards for the inclusion in the next edition of ISO 4135. Nora and Dr. Dain received a letter of thanks from the Deputy-General of ISO in Geneva, Switzerland for their work.

Dr. Dain has continued work with the International Healthcare Terminology Standards Development Organization and the International Organization for Terminology in Anesthesia devising a standardized vocabulary for the electronic anesthesia

record and quality assurance. This work has been incorporated into the SNOMED-CT nomenclature that has been adopted by seven countries worldwide. This will allow clinical, research and quality assurance data to be unambiguously compared and combined between multiple hospitals and countries for large scale studies.

Locally, Dr. Steven Dain, Dr. Kevin Armstrong, Cindy Carnegie RN, and Carol Hemphill RN of Information Management have developed an electronic medical record and data collection system within PowerChart for the Acute Pain Service. This will be introduced in the fall of 2009 and will replace paper based records for Acute Pain Service visits and provide data for quality assurance initiatives. They are going to evaluate different means of data entry, from bedside tablet computers to WOWs.

Dr. Dain has been working with the citywide Information Management Department on a number of projects including wireless policy and procedures, use of smart phones and cellular phones on the hospital network, electronic learning management systems and Cisco unified communications systems.

Dr. Dain participated in the Healthcare Information and Management Systems Society Annual Meeting in Chicago, IL in May 2009 and helped demonstrate medical device interoperability at the Massachusetts General Hospital's MD Plug and Play Scientific Exhibit.

## NEUROANESTHESIA

The aim of the Neuroanesthesia Fellowship Program is to provide advanced training to those individuals who either plan to enter academic anesthesiology with an emphasis in neurosurgical anesthesia or those who wish to practice in a setting that has a large number of neurosurgical and neuroradiological procedures. Trainees gain knowledge not just through case experience, but also through an organized teaching program. The Fellowship is designed to provide expertise in the following areas:

### **Clinical Neuroanesthesia**

#### *Cerebrovascular Surgery and Endovascular Treatment*

We are a national referral centre for the management of patients with cerebral aneurysms and arteriovenous malformations.



Rosemary Craen

### *Surgery for Intractable Epilepsy*

While we have been doing this type of surgery for more than two decades, it is only recently that neurologists and neurosurgeons worldwide have come to realize the therapeutic potential of such surgery and this has resulted in epilepsy surgery becoming one of the “fastest growth areas” in neurosurgery. Patients are done awake but sedated so that their speech and motor areas of the brain can be mapped prior to surgical excision.

### *Stereotactic Surgery*

This is used for diagnostic biopsies, management of chronic pain and movement disorders, and the management of intractable epilepsy. Each of these requires different anesthetic approaches.

In addition to the above “special areas”, fellows will be exposed to a wide variety of the more usual neurosurgical procedures, including endoscopic neurosurgery, craniotomies for tumors and hemifascial spasm, carotid endarterectomy, and spinal instrumentation.

### **Monitoring/Diagnostic Skills**

Fellows will have the opportunity to learn how to use Transcranial Doppler, Cerebral Oximetry, Evoked Potential and EEG monitoring during surgery.

### **Non-Anesthesia Experience**

Fellows will spend a brief period on the epilepsy service to have a better understanding of the total management of patients with epilepsy and to learn (much) more about the reading, use and potential of EEG monitoring.

As well, a similar brief period will be offered in the Neuroradiology Department to learn more about the indications and uses of diagnostic and interventional neuroradiology and to become much more facile with the interpretation of CT scans, MRI, etc.

### **Research/Academic Activities**

The Department offers a variety of clinical research opportunities.

It is our expectation that each fellow will complete at least one research project taking it from conception through to completion. In addition, each fellow is expected to write at least one review article/book chapter. Further participation in research and writing activities is always welcomed and encouraged.

Under supervision, fellows will also review manuscripts submitted to a variety of anesthesia journals, abstracts submitted to anesthesia scientific meetings, and grant applications. These activities together with the research activities outlined above will provide fellows with an excellent insider's view of the entire research process.

For fellows interested in medical education, we encourage them to take the 2-day or the 5-day course "Teaching at the University Level" offered by The University of Western Ontario. For those who anticipate that teaching will be a major component of their career, we advise our 30-week teaching course for medical educators.

## OBSTETRICAL ANESTHESIA

The past year's volume of deliveries in the city approximated 6,500, a number that has been relatively stable for the past few years. There continues to be an increase in the relative number of complex maternal care patients at LHSC-VH. SJHC remains the tertiary obstetrical referral centre in the city, responsible for the majority of high-risk obstetrical anesthesia and neonatal care.

Internal work on The Grace Donnelly Women's and Children's Health Pavilion at LHSC-VH has begun. The structure template includes four dedicated c-section operating rooms, with all labour and delivery services concentrated in one wing of the building. Although budgetary pressures have never been higher, it is hoped that the design will be completed with the intended up-to-date, efficient, functional use of space. The current estimation for consolidation of obstetrical anesthesia services at this site is November 2011. Consolidation will mean a change in the approach to provision of obstetrical anesthesia services, necessitated by volume of cases. Organization of anesthetic workforce will likely mean that two consultants, supported by fellows and residents, will be dedicated to the birthing centre. One will be responsible for booked, elective c-sections, while the second one will remain responsible for labour analgesia and urgent and emergent c-sections. Discussions regarding the specific details of anesthetic coverage have begun, and will be further delineated once the consolidation date is closer.

Despite the corporate decision to forgo participation in the fourth phase of the MOREOB (Managing Obstetrical Risk Efficiently) program in London, the multi-disciplinary approach to obstetrical care has continued to flourish. Mock obstetrical emergency drills at both SJHC and LHSC-VH continue, as part of ongoing education



Sandra Katsiris

and improving the team approach to patient safety.

The core resident rotations through the obstetrical unit at SJHC continued to be fully subscribed. Resident exposure to an educational experience with challenging obstetrical anesthesia cases occurs at both sites. Obstetrical cases continue to figure prominently in resident research and presentations. Resident exposure to obstetrical anesthesia in the city continues to thrive.

The Obstetrical Anesthesia Fellowship program has had Dr. Marcos Silva as a clinical fellow this year, and will welcome Dr. Kristine Marmai next year.



Valerie Schulz

## PALLIATIVE CARE IN CRITICAL CARE

Integrating Palliative Care for Critical Care patients has become a provincial, national and international initiative. The reasons London Health Sciences Centre has a systems approach to end of life, palliative care in critical care, and as cited in the literature, are: one in five deaths in the population occur in ICU; ICU providers need to know how to provide end of life care; a large proportion of ICU patients will die in or shortly after ICU discharge; palliative symptom management applies to ICU at risk of dying patients who survive, particularly if quality of life has been seriously affected; and palliative care principles and practices provide an opportunity to discuss care planning after discharge from critical care, and may determine the circumstances to return to ICU. Therefore, London Health Sciences Centre is integrating end of life care in our: Critical Care Trauma Centre, Medical Surgical Intensive Care Unit, Cardiac Surgery Recovery Unit, and Trauma Observation Unit settings.

LHSC Critical Care Program has a dedicated palliative medicine consultant available within the units. The role of the palliative medicine consultant in the ICU setting is based on clinical, educational, administrative and research objectives.

Clinically, consultations are provided in critical care settings for end of life care support, and symptom management. The Palliative Care Service in Critical Care links directly to the general palliative care service LHSC, for their ward consultations and transfers to a palliative care unit. Palliative care services support the Critical Care Outreach, Rapid Response Team.

Palliative care education is provided on each junior resident rotation, within the senior resident half day education, and directly through bedside education during consultations. The palliative medicine consultant is involved in Interdisciplinary Resource Groups for end of life care and humanistic care initiatives. These initiatives are designed to improve the quality of patient care, and the comfort in staff providing end of life care in critical care settings. Comprehensive groups encompass nurses, physicians, social workers, registered respiratory therapists, spiritual care providers, volunteers, critical care administrators, and our LHSC ethicist.

The palliative medicine consultant administratively collaborates with critical care personnel during end of life policy decision-making including policy development and implementation. As well, from a research perspective, Palliative Care in Critical Care supports national CIHR projects, and local research involving critical care residents.

LHSC values end of life care principles and practice as an integral service in delivering comprehensive care in the critical care. The London Health Sciences Centre integration of palliative medicine into the critical care initiative was made possible through the vision and support of the Department of Anesthesia and Perioperative Medicine.

## PEDIATRIC ANESTHESIA

The Pediatric Anesthesia subspecialty group, aided by our capable anesthesia assistants, provided anesthesia support for over 1,600 out-of-OR cases. Demand for this service continues to grow, and future expansion is being considered.

The Department continues to actively pursue recruitment of a fellowship pediatric anesthesiologist, in order to enrich our clinical experience. In addition, one of our PGY4 residents has accepted a fellowship position at the Hospital of Sick Children, Toronto, ON. The subspecialty group will provide further training within the Department for this candidate, as required.

In January 2009, the pediatric complex pain and symptom management support team was implemented. So far the team has been consulted for 39 patients. Funding for 1.5 FTE physicians' is being sought in a joint proposal from the Department of Pediatrics and the Department of Anesthesia and Perioperative Medicine.



Lynn Coveney

As of July 1, 2009, Dr. Mohamad Ahmad will take over the leadership role of the pediatric subspecialty group. Upcoming challenges include creating new educational opportunities for residents and consultants, through conventional lectures, MM rounds and also simulator programs. Preparations for the next phase of consolidation of services, especially the relocation of the NICU will also be a priority.



Fiona Ralley

## PERIOPERATIVE BLOOD CONSERVATION

The Perioperative Blood Conservation Program continues to be intergrated into the general management of all surgical patients that have a risk of requiring a perioperative blood transfusion. The medical directives for the use of preoperative intravenous iron, erythropoietin and preoperative autologous donations were passed by the Medical Affairs Committee and this had added to the streamlining of the program. A request to extend the program to cover St. Joseph's Health Care was unable to be addressed due to inadequate personnel to cover this expansion. However, individual requests from any institution or surgical service are reviewed when time and resources permit.

The volume of patients reviewed by the PBCP each month continues to grow and is in excess of 200 patients per month. Services that use the program now include orthopedic, cardiac, urology, vascular, general and gynecological. In addition, all patients refusing blood products, whether for religious reasons or not, are seen by a member of the PBCP team and their management reviewed and any appropriate interventions initiated. Recently the program has expanded into the surgical area of patients undergoing resection for colon/rectal disease, including cancer, and hepatic resections. The use of a multi-model approach utilizing both preoperative hemoglobin augmentation and intraoperative cell sparing techniques such as acute normovolemic hemodilution and cell salvage has produced excellent results in reducing transfusion rates in these surgical populations.

Members of the PBCP have been very active academically and requests to present information regarding the program at LHSC are increasing. This is particularly prevalent for the use of intraoperative tranexamic acid for arthroplasty procedures after presentations of our results at several scientific conferences. In addition a manuscript describing these results has been submitted for publication. Other presentations have included lectures at the annual meeting of the Society for the Advancement of Blood Management, Canadian Orthopedic Association and at



the annual provincial transfusion committee forum. In addition, residents have been encouraged to participate in the various ongoing research projects run by the program. These include a) the introduction of a Blood and Blood Product Transfusion pre-printed order sheet with orthopedic surgery patients and b) utilization of fresh frozen plasma in the Cardiac Surgical Recovery Unit.

Education into the appropriate ordering of all blood products has been one of the main focuses of the program this year. Lectures on blood management have now been incorporated into both the first year anesthesia and surgical resident curriculum lecture series. It is hoped that by educating the junior residents at the beginning of their training that they will develop good blood ordering practices during their residency and continue with these as consultants.

## SIMULATION (CSTAR)

Medical Director - Dr. Richard Cherry

Education Director - Dr. Lois Champion

Research Director - Dr. Ron Butler

Instructors - Dr. Brian Church, Dr. Jeff Granton

The Simulation Program continued to thrive through its second academic year. In summary, we have continued to deliver simulation based crisis management training to anesthesia and critical care residents while expanding the program to include more undergraduate medical student exposure. Research collaboration has grown and alliances are being formed with other diverse faculties at the University. Locally, the general awareness and interest in simulation has expanded as a result of our Department's work.

In the last academic year, the Simulation Program delivered and debriefed over 270 simulation scenarios to more than 300 participants. Development of novel and goal directed scenarios have progressed to accommodate the expanded student base.

Participants continue to be drawn from multiple areas of healthcare. Anesthesia residents and critical care junior residents make up the majority of simulation participants with the latter being composed of residents from almost every postgraduate program in the Schulich School of Medicine & Dentistry. The program also continues to deliver critical event simulation training to surgical junior residents, critical care fellows and other specialized training groups such as CCOT.



Richard Cherry

For the second consecutive year, we enjoyed providing a simulation experience to first year medical students during their consolidation week. This voluntary program afforded 84 students an opportunity to put their clinical assessment, decision-making and management skills into practice in the simulation environment. Additionally, we continued to provide an animated curriculum for the fourth year resuscitation course.

Feedback from participants continues to be overwhelmingly positive. The simulation experience is consistently rated as positive and beneficial for recognizing and managing critical events. Participants also find the experience useful for improving communication skills and overall clinical situation awareness.

During the last year, strategic research alliances have been made with the Department of Surgery, The Office of Inter Professional Health Education and Research, and the Ivey School of Business resulting in submission of several grant proposals related to the integration of various simulators and the use of simulation for multidisciplinary team training. In conjunction with Dr. Bob Kiaii, the Simulation Program has been funded through the American College of Surgeons to pursue this particular type of training with specialized cardiac operative teams.

We continue to make efforts to expand our instructor pool both from inside and outside the Department. Demand for this style of training continues to grow at an astounding rate. The Simulation Program currently has an excellent collaborative relationship with CSTAR and we look forward to completion of the Kelman Centre for Advanced Learning in 2010. The Kelman Centre will provide two dedicated, fully equipped simulation rooms and debriefing facilities with the capability to also handle large group simulations for team processes.

## THORACIC AND VASCULAR ANESTHESIA

The academic Thoracic and Vascular Anesthesia Program continues to thrive and grow at an exponential rate in the Department of Anesthesia and Perioperative Medicine at The University of Western Ontario. Located at Victoria Hospital, it is an extremely busy program covering all types of complex elective and emergency cases, with the exception of lung transplantation.

Vascular surgery operates five times a week and Thoracic surgery four times a week. We have monthly morbidity, mortality and multi-disciplinary rounds with our surgical colleagues to assure quality control and to keep up on current events.

The majority of vascular and thoracic patients coming through our institution have multiple co-existing diseases including severe cardiorespiratory compromise. These patients have an extensive preoperative evaluation by anesthesia and/or internal medicine, cardiology and respirology. We have developed a multi-disciplinary perioperative high-risk clinic for optimization and follow up of these patients. The Thoracic and Vascular Surgical Programs have their own postoperative step-down monitored units with invasive monitoring capabilities.

### Thoracic

The robotic and video-assisted thoracic surgical programs (VATS) are well developed at our institution and currently account for 80% of cases, the remainder being open thoracotomies or investigative procedures. On average, per year, we perform 300 major pulmonary resections and 80 esophagectomies. We have the largest experience with esophagectomies and VATS procedures in Canada. To enhance our clinical experience and improve our teaching program we have developed an advanced VATS surgery and anesthesia workshop using a pig model. Here, consultants can enhance their skills in fiberoptic bronchoscopy and management of one lung ventilation. The pediatric thoracic anesthesia program is evolving with the recruitment of a pediatric thoracic surgeon. Pediatric thoracic procedures include investigative, video-assisted and open procedures. Alongside this, is the adult and pediatric regional anesthesia and acute pain program, allowing for excellent perioperative pain management.



George Nicolaou

## **Vascular**

The Vascular Division of Surgery at Victoria Hospital has and continues to be a pioneer in endovascular stenting of abdominal and thoracic aneurysms and claims one of the largest series in North America. Ruptured abdominal and thoracic aneurysms that have favorable anatomy are repaired by the endovascular route at our institution. The thoraco-abdominal aneurysm program is well developed and these aneurysms are now generally repaired using endovascular branched stents. The thoraco-abdominal aneurysms that cannot be repaired by using endovascular stents are repaired utilizing partial left heart bypass. Recently, we have started repairing aortic arch aneurysms via the endovascular route. We use rapid ventricular pacing to optimize surgical conditions before stent deployment. On average per year, we perform 150 open abdominal aneurysm repairs, 35 endovascular thoracic, 150 endovascular abdominal and 10 endovascular thoraco-abdominal aneurysm repairs.

## **Transesophageal Echocardiography (TEE)**

Our Transesophageal Program is well developed with formal teaching and multi-disciplinary weekly rounds. TEE is specifically available for management of thoracic aneurysm stenting and for adjunctive management of the vascular patient with associated cardiac disease. While not every anesthetist involved in vascular anesthesia is experienced in TEE, there is usually one anesthetist experienced in TEE, available for guidance.

## **Research Projects in Progress**

- Role of continuous positive airway pressure and positive end-expiratory pressure on PaO<sub>2</sub> during one-lung ventilation utilizing lung protective ventilation strategies
- Arterial pCO<sub>2</sub> changes during thoroscopic surgery with CO<sub>2</sub> insufflation and one lung ventilation
- Use of near-infrared spectroscopy for monitoring spinal cord perfusion in endovascular repair of thoracic aortic aneurysms
- Biochemical markers of spinal cord ischemia in patients undergoing thoracic aortic endovascular repair

## **Residents Training**

Our Residency Program includes two four-week blocks of subspecialty training in vascular and thoracic anesthesia. Educational objectives are clearly outlined and monitored through daily assessments. Reading material is provided and residents are encouraged to partake in clinical research. At the beginning and the end of their

rotations, the residents have an MCQ examination to assess improvement during their rotation. An oral examination is also administered at the end of the rotation.

### **Fellowship**

Our Fellowship Program is well established with ongoing clinical research opportunities, in collaboration with our surgical colleagues. The program is one year in duration. Each week, the fellow will work two days independently in the operating room, one day in vascular and one day in thoracic with a consultant. The fifth day is for academic and research projects. The fellows are encouraged to attend x-ray rounds, thoracic/vascular rounds, fiberoptic bronchoscopy clinics and transesophageal rounds. Reading material is provided and fellows are encouraged to go to another centre for two weeks to broaden their experience. The Fellowship Program is extremely flexible, and is designed to accommodate the individual fellow's needs.

### **Summary**

Overall, the Thoracic and Vascular Program at Victoria Hospital is a very busy program with an incredible variety of interesting and complex cases. It is constantly evolving to keep up with medical and technological advances, to ensure that patients receive the most optimal perioperative care currently available. The program offers excellent opportunities for fellows to become proficient in adult and pediatric thoracic/vascular anesthesia and transesophageal echocardiography, both in a clinical and research setting. It is designed to meet the individual's needs, along with the best exposure to the available clinical caseload.



# EDUCATION



Rosemary Craen

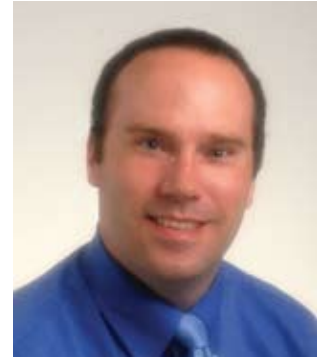
## FELLOWSHIP

Fellowships in cardiac, neurosurgical, transplantation, regional, obstetrics, pain management, and vascular & thoracic anesthesia are offered each year at the London Health Sciences Centre and St. Joseph's Health Care, London. Fellowships are 12 months in duration.

Programs are individualized to meet the goals of successful applicants. Generally, clinical experience is the focus along with improvement in clinical research. Fellows spend approximately four days per week in clinical activities with one day per week protected for non-clinical activities, and participation in night call schedule (from home). Fellows are also encouraged to be actively involved in resident, medical student and nursing education, didactic lectures and to participate in anesthesia rounds and specialty conferences. Applications are usually considered 12 - 18 months prior to the start date.

## POSTGRADUATE EDUCATION

As of July 2008 Dr. Sal Spadafora stepped down as Program Director and moved on to the challenging role of Associate Dean, Postgraduate Medical Education, for the Schulich School of Medicine & Dentistry. Dr. Jeff Granton has assumed the position of Program Director and is looking forward to continuing to build on the framework built by Dr. Spadafora. During the 2008 - 2009 academic year, the Postgraduate Education Program of the Department of Anesthesia and Perioperative Medicine at The University of Western Ontario had 42 anesthesia residents and over 30 off-service residents hosted from other residency training programs. In addition, we are pleased to be assisting with the training of Physician Assistants from the Canadian Forces.



Jeff Granton

The program continued to provide excellent teaching, clinical exposure, research opportunities and a comprehensive approach that involved virtually every member of the Department, citywide, in some capacity. The overall program continues to strive for excellence in training that prepares our candidates for a career of both clinical and scholarly activity.

### **Educational Activities**

The program continues to offer high quality general and subspecialty rotations including

- Acute Pain
- Airway Management
- Ambulatory Anesthesia
- Cardiac Anesthesia
- Chronic Pain
- Neuroanesthesia
- Obstetric Anesthesia
- Palliative Medicine
- Pediatric Anesthesia
- Perioperative Medicine
- Preadmission Clinic
- Regional Anesthesia
- Thoracic Anesthesia
- Vascular Anesthesia

### Resident Research Day

Our resident research day took place in Hamilton, Ontario on June 12, 2009. This full day event, held jointly with the Anesthesia Program at McMaster University, was a great success. The University of Western Ontario residents presented the following excellent work

- Dr. Amanda Smitheram  
Anesthetic Management of a Child for Esophagectomy
- Dr. Collin Clarke  
Virtual Reality Imaging with Real Time Ultrasound for Facet Joint Injection  
A Proof of Concept
- Dr. Phil Kruger  
Anesthetic Management for Cesarean Delivery in a Patient with  
Anderson-Tawil Syndrome
- Dr. Tim Maxwell  
A Successful Anesthetic Technique in a Patient with Giant Bullous Emphysema
- Dr. Diem Tran  
Arterial PCO<sub>2</sub> Changes During Thoracoscopic Surgery with CO<sub>2</sub> Insufflation  
and One Lung Ventilation
- Dr. Kristine Marmai  
Anesthetic Considerations for a Femur Osteotomy in a Child with  
Congenital Insensitivity to Pain
- Dr. Kenneth Ryan  
The Frequency of Postoperative Hypoxemia in Patients with Obstructive  
Sleep Apnea Undergoing Major Surgery

Our residents also played an active role in presentations at the annual Canadian Anesthesiologists' Society (CAS) meeting in Vancouver, BC in June 2009. We are very proud that Dr. Collin Clarke won second place in the national CAS Resident Research Competition for his project, Virtual Reality Imaging with Real Time Ultrasound for Facet Joint Injection – A Proof of Concept.

### Simulation

Simulation is now a core component of the Residency Training Program with regular sessions at all levels of residency training. Led by Dr. Richard Cherry, this program allows anesthesia residents to practice vital crisis resource management skills and is rapidly becoming one of the most popular aspects of the residency program.



### **2008 - 2009 PGE Committee**

The following people have served the Postgraduate Education Program and I wish to acknowledge them for their help and thank all the faculty members for their hard work.

Each and every member of the Department of Anesthesia and Perioperative Medicine makes this program a success. A special thanks is extended to Ms. Linda Szabo, our Education Co-ordinator, who helps make every component of the program run smoothly and efficiently.

As I look back on my time as Program Director in anesthesia, I am overwhelmingly pleased by the broad base of support from all clinical faculty at all sites for our educational mandate. It has been a pleasure to lead such a dedicated group of teachers and learners.

### **PGE Committee Members for 2008 - 2009**

- Dr. Kevin Armstrong - St. Joseph's Health Care, London Site Co-ordinator
- Dr. Davy Cheng - Department Chair/Chief
- Dr. Richard Cherry - IT/Simulation Co-ordinator & Royal College Examiner
- Dr. Rooney Gverzdys - Victoria Hospital Site Co-ordinator
- Dr. Rosemary Craen - University Hospital Site Co-ordinator
- Dr. Sandra Katsiris - Associate Program Director and Royal College Examination Committee
- Dr. Ed Roberts - SWOMEN Windsor Representative
- Dr. Indu Singh - Research Co-ordinator
- Dr. Mark Soderman - Community Anesthesia Representative
- Dr. Jeff Granton - Program Director
- Ms. Linda Szabo - Education Co-ordinator

### **PGE Committee Resident Representatives**

- Dr. Andreas Antoniou, Chief Resident
- Dr. Kenneth Ryan, PGY3 Junior Resident Representative
- Dr. Kevin McKeown, PGY2 Junior Resident Representative

## UNDERGRADUATE EDUCATION

The 2008 - 2009 academic year at the Schulich School of Medicine & Dentistry marked a year of significant change with restructuring and expansion to the University of Windsor program. As of September 2008, the complete undergraduate program began in Windsor with 24 first-year students, from a class 147-strong at UWO. This is a trend seen across Canada with medical schools developing partnerships with other universities and communities to extend the reach of medical education. The Windsor program is equipped with state-of-the-art videoconferencing technology and a highly motivated faculty. In the spring of 2009, the Ontario Government announced further medical school expansions, with the Schulich School of Medicine & Dentistry adding 24 new positions by 2011, bringing the first-year class to 171! Our Department of Anesthesia and Perioperative Medicine continues to play an important role in all four years of the undergraduate medical education program at UWO and Windsor. The popularity of our Anesthesia Clerkship rotation has led to a change in the nature of the rotation from a two week selective to a mandatory rotation as part of the surgical clerkship block in the coming academic year. The Department of Anesthesia and Perioperative Medicine, at UWO is committed to the education of medical students. The operating rooms continue to provide an enriched educational environment for one-on-one teaching with our highly motivated and skilled faculty. Our goal remains the same; to make the Anesthesia Clerkship rotation an excellent clinical learning experience.

## CONTINUING MEDICAL EDUCATION

Citywide CME events for consultants, fellows, residents and Southwestern Ontario anesthesiologists were

### Departmental Citywide Grand Rounds

Perioperative Anesthesia Management for Periaortic/Transfemoral  
Valve Replacement  
Presentation  
Massimiliano Meineri, MD and  
Marcin Wasowicz, MD, PhD  
Assistant Professors, Department of Anesthesia  
University of Toronto  
Staff Anesthesiologists, University Health Network  
Toronto General Hospital  
June 24, 2009



Ian Herrick

### Outcomes XIII, 2009 – Barbados

Jointly Sponsored by  
The Department of Anesthesia and Perioperative Medicine  
The University of Western Ontario, Schulich School of Medicine & Dentistry  
London, ON;  
Wake Forest University School of Medicine, Winston-Salem, NC, USA;  
University of West Indies, Barbados, WI  
Organizers  
R. Clive Landis PhD, Barbados, WI  
John M. Murkin MD, London, ON  
David A. Stump PhD, Winston-Salem, NC, USA  
Barbados, WI  
May 27 - 30, 2009

### Perioperative Multidisciplinary Grand Rounds

The Management of Acute Pain in the Patient with Chronic Pain  
Presentation by  
Dr. Robert McMurtry - Hand and Upper Limb Department  
Dr. Kevin Armstrong - Department of Anesthesia and Perioperative Medicine  
Dr. Katherine Ower - Department of Anesthesia and Perioperative Medicine  
May 21, 2009

### **Departmental Citywide Grand Rounds**

Dazed and Confused: Perioperative Cognitive Disorders

Presentation by

Greg Bryson, MD, FRCPC, MSc

Department of Anesthesiology

The Ottawa Hospital, Ottawa, ON

April 29, 2009

### **Multidisciplinary Dinner Lecture**

Highlights of the 2<sup>nd</sup> American Fluid Debate

Presentation by

Anthony Michael Roche, MBChB, FRCA, MMed (Anaes)

Assistant Professor, Department of Anesthesiology

Duke University Medical Center, North Carolina

April 16, 2009

### **The Winter Cardiac Team Meeting 2009**

Jointly Sponsored by

The Department of Anesthesia and Perioperative Medicine

The University of Western Ontario, Schulich School of Medicine & Dentistry

The Montreal Heart Institute, University of Montreal

Conference Chair

Dr. John M. Murkin

Scientific Committee

Drs. D. Bainbridge, D. Cheng, S. Dain, A. Denault, W. Dobkowski,

I. Iglesias, B. Kiaii, and Mr. A. Cleland

Organizing Committee

S. Adams & M. Portokalis

Mont-Tremblant, QC

February 13 - 15, 2009

### **Departmental Citywide Grand Rounds**

Research in Trauma and Emergency Situations

Presentation by

Prof Ian Roberts, MB, MRCP, PhD, FFPH

Professor of Epidemiology and Public Health

London School of Hygiene & Tropical Medicine

University of London, UK

February 11, 2009

### **Departmental Citywide Grand Rounds**

New Ways of Thinking About Complex Regional Pain Syndrome  
Presentation by  
Pat Morley-Forster MD, FRCPC  
Kate Ower, MD, FRCPC  
Collin Clarke, MD PGY4  
Department of Anesthesia and Perioperative Medicine  
London Health Sciences Centre, St. Joseph's Health Care, London  
January 28, 2009

### **Perioperative Multidisciplinary Grand Rounds**

When Patients and Their Surrogates Say 'No'  
Presentation by  
Mr. Robert Sibbald - Medical Ethics  
Dr. Kevin Coughlin - Neonatology  
January 21, 2009

### **Departmental Citywide Grand Rounds**

Microanatomy of Nerves: Implications for Regional Anesthesia  
Presentation by  
Andre P. Boezaart, MD, PhD  
Professor of Anesthesia & Orthopaedic Surgery and Rehabilitation  
University of Florida College of Medicine  
Gainesville, FL, USA  
December 3, 2008

### **CSTAR's Varkey Ultrasound Guided Anesthesia & Anatomy Update 2008**

Jointly Sponsored by  
The Department of Anesthesia and Perioperative Medicine  
The University of Western Ontario, Schulich School of Medicine & Dentistry  
Canadian Surgical Technologies & Advanced Robotics (CSTAR)  
London Health Sciences Centre  
Course Director  
Dr. Sugantha Ganapathy  
Departmental Faculty and Planning Committee Members  
Drs. M. Ahmad, K. Armstrong, P. Armstrong, R. Bhandari, S. Dhir, N. Imasogie,  
J. Parkin, M. Rachinsky, I. Singh, L. Tureanu  
November 29 - December 1, 2008

### **Departmental Citywide Grand Rounds**

BIS – Help or Nuisance?

Presentation by

Hemmerling, MD, PhD, MBA

Associate Professor

Department of Anesthesiology, McGill University

Department of Biomedical Engineering, Université de Montréal

Montreal, QC

October 28, 2008

### **2008 Southwestern Ontario Anesthesia Meeting – Airway Workshop**

London Health Sciences Centre - University Hospital, CSTAR

Jointly Organized by

Ivan Iglesias, MD

Christopher Harle, MB ChB, FRCA

Jeff Granton, MD, FRCPC

Daniel Bainbridge, MD, FRCPC

Timothy Turkstra, MD, FRCPC

October 25, 2008

### **Perioperative Multidisciplinary Grand Rounds**

Accreditation Canada and Patient Safety Highlights

Presentation by

Phyllis Brady, Accreditation Co-ordinator

Sandra Letton, Integrated VP Nursing & Professional Practice

Chief Nursing Executive

October 15, 2008

### **Departmental Citywide Grand Rounds**

Acute Pain Management in Orthopaedics

Presentation by

Jacques E. Chelly, MD, PhD, MBA

Professor of Anesthesiology and Orthopedic Surgery

University of Pittsburgh School of Medicine

Pittsburgh, PA, USA

September 24, 2008

### **Multidisciplinary Dinner Lecture**

New Developments in Regional Anesthesia  
Presentation by  
Jacques E. Chelly, MD, PhD, MBA  
Professor of Anesthesiology and Orthopedic Surgery  
University of Pittsburgh School of Medicine  
Pittsburgh, PA, USA  
September 23, 2008

### **Departmental Citywide Grand Rounds**

Tight Glucose Control in the Perioperative Period: Yes or No?  
Presentation by  
Phil Jones, MD, FRCPC  
Assistant Professor, Department of Anesthesia and Perioperative Medicine  
The University of Western Ontario, London Health Sciences Centre  
September 17, 2008

## **RESIDENT RESEARCH**

Indu Singh

UWO anesthesia residents continued to be active in research. They participated in local, national and international meetings.

Residents participated in the Midwest Anesthesia Residents Conference (MARC 2009) which was hosted by Northwestern University, Chicago, IL, USA. Resident presenters from UWO and their presentations included

- Dr. Amanda Smitheram  
Anesthetic Management of a Child for Esophagectomy
- Dr. Phil Kruger  
Anesthetic Management for Cesarean Delivery in a Parturient with Andersen-Tawil Syndrome
- Dr. Tim Maxwell  
A Successful Anesthetic Technique in a Patient With Giant Bullous Emphysema
- Dr. Kristine Marmai  
Anesthetic Considerations in a Child with Congenital Insensitivity to Pain

Dr. Kristine Marmai was awarded first prize for her presentation.

UWO residents presented at the Mac-Western Anesthesia Resident Research Day Exchange which was hosted by McMaster University on June 12, 2009. UWO presenters and their presentations included

- Dr. Amanda Smitheram  
Anesthetic Management of a Child for Esophagectomy
- Dr. Phil Kruger  
Anesthetic Management for Cesarean Delivery in a Parturient With Andersen-Tawil Syndrome
- Dr. Tim Maxwell  
A Successful Anesthetic Technique in a Patient With Giant Bullous Emphysema
- Dr. Marcos Silva  
Anesthetic Management of Cerebellar AVM During Pregnancy and  
Ultrasound Guided TAP Blocks for Post CS Pain Relief: A Pilot Study
- Dr. Collin Clarke  
Virtual Reality Imaging With Real Time Ultrasound for Facet Joint Injection  
A Proof of Concept
- Dr. Diem Tran  
Arterial pCO<sub>2</sub> Changes During Thoracoscopic Surgery With CO<sub>2</sub> Insufflation and One Lung Ventilation
- Dr. Kristine Marmai  
Anesthetic Considerations in a Child With Congenital Insensitivity to Pain

Dr. Collin Clarke was awarded first prize for his presentation

UWO anesthesia residents also presented at the CAS Annual Meeting in Vancouver, BC in June 2009. Resident presenters and their presentations were

- Dr. Phil Kruger  
Anesthetic Management for Cesarean Delivery in a Parturient With Andersen-Tawil Syndrome
- Dr. Tim Maxwell  
A Successful Anesthetic Technique in a Patient With Giant Bullous Emphysema
- Dr. Collin Clarke  
Virtual Reality Imaging With Real Time Ultrasound for Facet Joint Injection  
A Proof of Concept

Dr. Collin Clarke presented in the Resident Research Competition and won 2<sup>nd</sup> prize.



Junior residents received a lecture on Principles of Research Ethics by Dr. Singh during the Ethics series in June 2009.

During the Academic Core Lecture Series residents were given presentations by Drs. Railton, Dhir, and Singh to increase resident awareness of ongoing research projects.



Critical Event Simulation  
CSTAR



# FACULTY DIDACTIC TEACHING AND EDUCATION

## **Dr. Miguel Arango**

- Neuro Problem Based Learning Discussions  
Co-organizer
- Resident Seminar  
Anesthesia for Intracranial Tumours  
January 14, 2009
- Intraoperative Complications in Neuroanesthesia  
Part 2  
May 19, 2009
- Intraoperative Complications in Neuroanesthesia  
May 12, 2009
- DBS – Parkinson's  
April 21, 2009
- Acute Subdural Hematoma  
April 7, 2009
- Is Ketamine Safe During Brain Ischemia?  
March 3, 2009
- Intracranial Aneurysm Surgery  
Case Presentation  
February 24, 2009
- Intraoperative Brain Ischemia Detection  
January 15, 2009
- Anesthesia for Head Injury  
December 18, 2008
- Anesthesia for Brain Tumors  
December 15, 2008
- Current Status on Intraoperative Hypothermia in Neurosurgery  
December 11, 2008
- Anticoagulation in Neuroradiology. Still a Place for ACT?  
July 8, 2008

- Faculty Development Course/Workshop  
Instructor  
IV Training Program for Medical Students Lecture and Workshop  
The University of Western Ontario  
Wednesdays, 8 hours
- General Anesthesia and Monitoring Lecture to Medical Students  
Invited Lecturer  
The University of Western Ontario  
March 24, 2009
- Resident Seminar  
Cerebroprotection/Resuscitation of the Brain  
January 21, 2009

#### **Dr. Daniel Bainbridge**

- Departmental TEE Rounds Presenter  
Frame Rate Resolution and Artifact  
April 15, 2009
- Cardiac Anesthesia Fellows Lecture (TEE)  
Frame Rate  
April 2009
- Cardiac Anesthesia Fellows Lecture (TEE)  
Doppler  
March 2009
- Cardiac Anesthesia Fellows Lecture (TEE)  
OPCAB  
March 2009
- Departmental TEE Rounds Presenter  
Doppler  
March 18, 2009
- 6<sup>th</sup> Annual Currents in Critical Care (Critical Care, LHSC)  
Is There an Echo in Here? Ultrasound, The Heart, and Critical Care  
February 25, 2009
- 2008 Southwestern Anesthesia Meeting  
Airway Workshop  
Basic Airway Management Workshop – The Bullard  
London, ON  
October 25, 2008

- Minimally Invasive Cardiac Surgery Journal Club  
Department/Multi-disciplinary Journal Club Convener  
for Cardiac Anesthesia and Cardiac Surgery Consultants, Fellows and Residents  
September 25, 2008
- Resident Lecture  
Cardiac Physiology  
September 2008

#### **Dr. Davy Cheng**

- Showcase Health Policy at UWO  
Lecturer  
Making Difficult Decisions When the Stakes are High: Drug Formularies and Hospital Health Technologies  
Ivey Business School, The University of Western Ontario  
May 7, 2009
- Cardiac Fellow/Resident Teaching Session  
Lecturer  
How to be Successful in Publishing your Research: Final Submission to the Journal  
London Health Sciences Centre  
March 18, 2009

#### **Dr. Rosemary Craen**

- Neuro Problem Based Learning Discussions  
Co-organizer

#### **Dr. Steven Dain**

- Departmental Rounds Presentation  
Anesthesia Informatics - An Update on Medical Device Interoperability  
UH Site Specific Rounds  
LHSC, University Hospital  
March 25, 2009
- Media Appearance and Interview  
Operating-Room Air - Some Operations Can Create a Toxic Smoke Known as a 'Plume,' but a New Standard Hopes to Clear the Air  
CTV News at 6:00 (CFTO-TV) Toronto  
March 18, 2009, Length 00:02:55  
Ref # 11f6e05-17, Time: 06:33pm | Reporter: Christine Bentley | Reach: 280,000

Plume Scavenging Coverage – “When you think of smoking, the hospital probably doesn’t come to mind, but for decades many health-care workers have been exposed to dangerous smoke in the operating room.”

<http://watch.ctv.ca/news/health/lifetime-with-monica-matys/#clip151484>

Dr. John Semple, Surgeon and Dr. Steven Dain, The University of Western Ontario

#### **Dr. Achal Dhir**

- M3 Seminars  
Pre Anesthetic Checkup  
April 7, 2009  
January 6, 2009  
September 16, 2008
- Resident Teaching  
Core Knowledge Lecture: Heart Failure  
November 26, 2008
- Resident Academic Day  
Co-ordinator/Moderator  
Anesthesia for Off-Pump CABG (OPCAB) Surgery by Dr. Danielle Stothart  
November 26, 2008
- PACU/OR Nurses’ In-Service/Talks  
PAC Nurses at Victoria Hospital: Good Health and Graceful Aging  
September 10, 2008
- OR Nurses’ In-Service  
Patient Safety Issues in Perioperative Care  
August 13, 2008
- TEE Rounds Presenter  
Advanced Diastolic Dysfunction and its Management  
May 27, 2009
- Diastolic Function and Dysfunction  
May 6, 2009
- Comprehensive 2D TEE Exam  
April 1, 2009
- 2D Comprehensive TEE Examination  
December 10, 2008
- Department Rounds Presenter  
Pick Pockets in Anesthesia  
July 23, 2008
- Workshop (Lab) Conductor and Demonstrator on Simulator  
Fanshawe College, London, ON

- Heart Disease and Anesthesia  
April 17, 2009
- Induction of Anesthesia  
March 13, 2009
- Workshop Organizer  
Canadian Medical Hall of Fame, UWO  
May 8, 2009
- Workshop Conductor  
Canadian Medical Hall of Fame, UWO  
May 8, 2009

#### **Dr. Shalini Dhir**

- Core Seminar for Anesthesia Residents  
Outcomes After Regional Anesthesia  
Current Research in Regional Anesthesia at UWO  
June 3, 2009
- Anesthesia Residents' Thursday Morning Rounds  
Complications of Regional Anesthesia  
May 14, 2009
- Complications of Regional Anesthesia  
December 11, 2008
- Nerve Injuries After Peripheral Nerve Blocks  
December 4, 2008
- Anesthesia for EXIT Procedures  
November 20, 2008
- HULC Seminar for Orthopedic and Plastic Surgery Residents  
Postoperative Analgesia for Peripheral Orthopedic Surgery  
July 31, 2008
- Anesthesia Assistant Program  
Local Anesthetics and Regional Anesthesia  
Fanshawe College and The University of Western Ontario  
March 27, 2009

### **Dr. Sugantha Ganapathy**

- Ultrasound Guided Blocks in Fresh Cadavers Followed by Dissection of the Cadavers at CSTAR  
Hands on Workshop Session  
Organizer  
Drs. Armstrong, Dhir, Rachinsky and Tureanu were teachers at this workshop  
this anatomy session has been incorporated into the curriculum of the Varkey Workshop since this was the first of its kind in Canada  
September 6, 2008

### **Dr. Jeff Granton**

- Anesthesia Residency Training Program  
Program Director  
The University of Western Ontario
- Canadian Critical Care Society  
Education Chair
- Cardiac Physiology, Community Health, Emergency Care and Resuscitation Medicine  
Undergraduate Lecturer  
Schulich School of Medicine & Dentistry

### **Dr. Ngozi Imasogie**

- Resident Rounds
- Heart and Circulation  
Week 1 'Cause we are Living in a Multicultural World  
February 13, 2009  
Week 2 Nature, Nurture and Prevention  
February 20, 2009  
Week 3 Congenital Heart Disease  
February 27, 2009
- Neonatal Anesthesia  
PDA, TOF, Diaphragmatic Hernia, Gastroschisis, Omphalocele  
January 22, 2009
- Neonatal Anesthesia  
Basics  
January 15, 2009

- PCCIA  
Respiration and Airways  
Week 1 Tobacco Use  
January 8, 2009  
Week 2 Palliative Care/Euthanasia  
January 15, 2009  
Week 3 Obstructive Sleep Apnea  
January 22, 2009  
Week 4 Hoarseness  
January 29, 2009  
Week 5 Cleft Lip and Palate  
February 6, 2009
- Neonatal Anesthesia  
PDA, TOF, Diaphragmatic Hernia, Gastroschisis, Omphalocele  
September 18, 2008
- Neonatal Anesthesia  
Basics  
September 11, 2008

#### **Dr. Philip Jones**

- UH Departmental Rounds  
When Should Tricuspid Regurgitation be Repaired?  
June 2009
- UH Departmental Rounds  
Anesthesia for Tran Catheter Aortic Valve Replacement  
June 2009
- TEE Rounds  
Paravalvular Leak Following AVR  
November 2008
- TEE Rounds  
Hypoxemia Following CABG  
October 2008
- Grand Rounds  
Tight Glucose Control in the Perioperative Period, Yes or No?  
Department of Anesthesia and Perioperative Medicine  
September 2008



**Dr. Ian McConachie**

- Southwestern Ontario Airway Workshop  
Gum Elastic Bougie  
London, ON
- Assessing Cardiac Risk for Non-Cardiac Surgery  
Resident Lecture  
London, ON
- Reducing Cardiac Risk for Non-Cardiac Surgery  
Resident Lecture  
London, ON
- Quality and Complications Following Ambulatory Anesthesia  
Resident Lecture  
London, ON
- Maximizing Efficiency and Effectiveness in Ambulatory Anesthesia  
Resident Lecture  
London, ON

**Dr. Patricia Morley-Forster**

- Hypogonadism with Chronic Opioid Therapy  
Endocrine Update  
London Hospitals  
April 2009
- Management of Pain in the Head and Neck Region  
ENT Resident's Seminar  
March 2009
- Topical Analgesics, Chronic Pain Refresher Course  
Canadian Pain Society, Toronto, ON  
February 2009
- Developments in Treatment of CRPS  
Citywide Department of Anesthesia Rounds  
January 2009
- Abdominal Wall Pain – An Unrecognized Source of Chronic Pain  
In-Service to 8N, University Hospital Surgical Nurses and Residents  
January 2009
- Treatment of Chronic Pain Problems in the Emergency Department  
Meds IV Pain and its Management Selective  
2008

### **Dr. John Murkin**

- UH Site Specific Rounds  
Clinical Cerebral Oximetry Program  
Patient Selection and an Algorithm for Intervention  
Lecture  
April 8, 2009
- UH Site Specific Rounds  
Genetic Susceptibility to Neurocognitive Injury: An Investigation  
Lecture  
October 8, 2008

### **Dr. Valerie Schulz**

- End of Life Care Education  
Critical Care Lectures on Palliative and End of Life Care  
The lectures are provided to physicians, fellows, residents, and medical students through routine lectures, individual teaching and consultations in Critical Care at London Health Sciences Centre, at both University Hospital and Victoria Hospital, and the Schulich School of Medicine & Dentistry
- Lead Undergraduate Palliative Medicine Educator  
Schulich School of Medicine & Dentistry
- Palliative/End of Life Care (P/EOLC) in Critical Care Workshop  
Speaker  
Hospice Palliative Care Conference  
April 21, 2009

### **Dr. Indu Singh**

- Obstetric Anesthesia PCL Rounds to SJHC Anesthesia Residents  
Anesthesia for the Morbidly Obese Parturient  
May 12, 2009
- Lecture to Anesthesia Residents  
Neuraxial Anesthesia  
May 6, 2009
- Obstetric Anesthesia PCL Rounds to SJHC Anesthesia Residents  
Anesthetic Management of the Parturient with Aortic Stenosis  
April 21, 2009
- Obstetric Anesthesia PCL Rounds to SJHC Anesthesia Residents  
Anesthesia for Non-Obstetrical Surgery in the Pregnant Patient  
March 10, 2009

- Obstetric Anesthesia PCL Rounds to SJHC Anesthesia Residents  
Anesthetic Management of the Parturient with Abnormal Placentation  
February 3, 2009
- Lecture to Schulich School of Medicine Undergraduate Students  
Nonsurgical Management of Upper Airway Obstruction  
January 27, 2009
- Obstetric Anesthesia PCL Rounds to SJHC Anesthesia Residents  
Anesthesia for Fetal Distress  
November 18, 2008
- Obstetric Anesthesia PCL Rounds to SJHC Anesthesia Residents  
Anesthetic Management of the Bleeding Parturient  
November 4, 2008
- Obstetric Anesthesia PCL Rounds to SJHC Anesthesia Residents  
Anesthesia for the Parturient with MS  
October 21, 2008
- Lecture to Obstetric Residents  
Management of Peripartum Hemorrhage  
October 8, 2008
- Obstetric Anesthesia PCL Rounds to SJHC Anesthesia Residents  
Anesthesia for the Parturient with Marfan Syndrome  
September 30, 2008
- Obstetric Anesthesia PCL Rounds to SJHC Anesthesia Residents  
Management of PDPH  
September 8, 2008
- Obstetric Anesthesia PCL Rounds to SJHC Anesthesia Residents  
Anesthesia for Non-Obstetrical Surgery in the Pregnant Patient  
August 26, 2008
- Lecture to Anesthesia Residents  
Principles of Research Ethics  
August 25, 2008
- Obstetric Anesthesia PCL Rounds to SJHC Anesthesia Residents  
PCA Remifentanyl for Labour  
August 12, 2008

#### **Dr. Luminita Tureanu**

Anesthesia Residents – OB Teaching Session

- Cesarean Section in the Parturient with Recent Cocaine Intake  
May 26, 2009

- The Management of the Parturient with Failed Epidural Block  
April 28, 2009
  - The Preeclamptic Parturient with a Non-reassuring FHR Pattern  
March 31, 2009
  - The Parturient with Peripartum Cardiomyopathy  
March 17, 2009
  - The Parturient with Multiple Sclerosis  
March 3, 2009
  - The Preeclamptic Parturient with a Non-reassuring FHR Pattern  
December 9, 2008
  - Cardiac Arrest in Pregnancy  
November 25, 2008
  - The Management of the Parturient with Failed Epidural Block  
October 28, 2008
  - Anesthesia for Nonobstetric Surgery in Pregnancy  
September 23, 2008
  - Cesarean Section in the Parturient with HIV and Cocaine Intake  
September 9, 2008
  - Anesthetic Considerations for the Parturient with Multiple Gestations  
August 19, 2008
  - Anesthetic Management of Placenta Accreta  
August 5, 2008
- Anesthesia Residents – Thursday Rounds
- Nitrous Oxide, A Review of the Biologic Effects  
May 7, 2009
  - Local Anesthetic Toxicity  
April 9, 2009
  - Local Anesthetic Toxicity  
November 27, 2008

#### **Dr. Timothy Turkstra**

- Southwestern Ontario Anesthesia Airway Conference  
Instructor and Course Organizer  
Instruction and Supervision of Novel Intubation Techniques  
The University of Western Ontario
- Department Journal Club, Co-ordinator
- Anesthesia Question of the Week, Co-ordinator
- Friday Morning Resident Case Rounds  
Instructor

- Physics for Anesthesia  
Anesthesia Resident Teaching Rounds  
April 2009
- Anesthesia for Neurovascular Cases  
Anesthesia Resident Teaching Rounds  
February 2009
- Resident Research  
Anesthesia Resident Teaching Rounds  
November 2008
- Anesthesia Update  
London Health Sciences Centre Anesthesia Rounds  
October 2008



Fellowship Training





# FACULTY AWARDS, CERTIFICATIONS AND RECOGNITIONS

## **Dr. Daniel Bainbridge**

- 2009 Awards for the Canadian Anesthesiologists' Society  
New Investigators Award (CAS-018-2009)  
Dr. Ronit Lavi and Dr. Daniel Bainbridge, Department of Anesthesia and  
Perioperative Medicine, London Health Sciences Centre  
Dr. Shahar Lavi, Division of Cardiology, London Health Sciences Centre  
January 8, 2009

## **Dr. Davy Cheng**

- The Outstanding Contribution Award  
Honoured at the 30<sup>th</sup> Anniversary Meeting of the Chinese Society of  
Anesthesiology & Chinese Medical Association  
For the Outstanding Contribution to the Development of Anesthesiology in China  
2009

## **Dr. Rosemary Craen**

- Fellow Teacher of the Year Award  
2009

## **Dr. Steven Dain**

- CSA Member Appreciation Award  
Presented by Canadian Standard's Association, President Suzanne Kiraly  
Recognition of 16 Years of Leadership Excellence and Participation in the  
Development of the Canadian National and International Standards for Medical  
Equipment and Clinical Engineering  
March 1, 2009

- Joint Canadian Psychiatric Association-COPCE Award  
Award for Most Outstanding Continuing Education Activity in  
Psychiatry in Canada (Community/Rural)  
Awarded by Canadian Psychiatric Association  
Collaborator in the Development of the DVD “Understanding Pain” (Chronic Pain)  
Through a DVD and Supporting Website, to Educate Residents in Training,  
Practicing Psychiatrists and Other Clinicians About the History of Chronic Pain  
and Current Management Approaches  
Collaborators: Dr. Harold Merskey and Dr. Laurence Jerome  
July 2008

#### **Dr. Sugantha Ganapathy**

- Recipient of the London YMCA Women of Distinction Award in the Area of  
Health, Science and Technology

#### **Dr. Jeff Granton**

- Canadian Anesthesiologists’ Society, John Bradley Young Educator Award  
June 2009

#### **Dr. Ronit Lavi**

- Canadian Anesthesiologists’ Society, David S. Sheridan Research Award

#### **Dr. John Murkin**

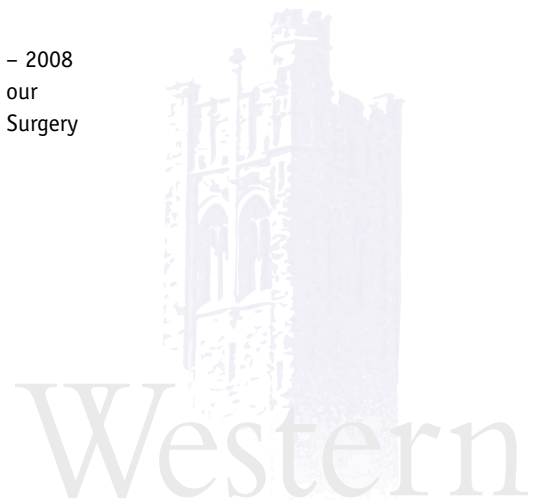
- Canadian Anesthesiologists’ Society – Research CAS Recognition Award – 2008  
In Recognition of Outstanding Contributions to the Knowledge Base of our  
Specialty Through Research into Protection of the Brain During Cardiac Surgery

#### **Dr. Indu Singh**

- Certificate of Recognition for Exemplary Leadership as a Member of  
Core Team From MORE OB

#### **Dr. Timothy Turkstra**

- 2008 Society for Airway Management Annual Meeting  
Top Research Presentation



# FACULTY PARTICIPATION NATIONALLY AND INTERNATIONALLY

## CONFERENCE CHAIR/MODERATOR/ ORGANIZER

### **Dr Miguel Arango**

- Colombian Congress of Anesthesia  
Co-chair  
Neuroanesthesia Module  
Medellin, Colombia  
March 2009
- Second Congress of Neuroanesthesia, Neurocritical Care and Neurosurgery Meeting  
Session Moderator  
Medellin, Colombia  
December 2008

### **Dr. Daniel Bainbridge**

- The Winter Cardiac Team Meeting 2009  
Member, Scientific Committee  
Moderator, Session I - Mitral Valve and Minimal Access Surgery  
Mont-Tremblant, QC  
February 13 - 15, 2009
- Bedside Ultrasound in the ICU  
Member, Organizing Committee  
London, ON  
December 15, 2008
- 4<sup>th</sup> Annual Southwestern Ontario Anesthesia Meeting  
Airway Workshop  
Member, Organizing Committee  
London, ON  
October 25, 2008



### **Dr. Davy Cheng**

- Canadian Anesthesiologists' Society Annual Meeting  
Co-chair  
Resident Research Competition  
Vancouver, BC  
June 29, 2009
- International Medical Congress on Perioperative Care for the Geriatric Patient  
Co-chair  
Cardiac Surgery 2  
Co-chair  
Poster Sessions  
Mt. Sinai School of Medicine, New York, USA and  
Czech Society of Anaesthesiology and Intensive Care Medicine  
Prague, Czech Republic  
June 15, 2009
- Best of Meeting Abstract Session  
Co-chair and Judge  
IARS Meeting  
San Diego, CA, USA  
March 16, 2009
- The Winter Cardiac Team Meeting  
Moderator and Judge  
Resident/Fellow Abstract Competition  
Moderator  
Pharmacologic Strategies  
Mont-Tremblant, QC  
February 15, 2009
- 27<sup>th</sup> Annual Symposium  
Clinical Update in Anesthesiology, Surgery and Perioperative Medicine  
Moderator  
Cardiac Anesthesia and Surgery  
Fajardo, Puerto Rica  
January 23, 2009

- 11<sup>th</sup> International Congress of Cardiothoracic and Vascular Anesthesia  
Co-chair and Judge  
Best Abstract Prize Competition – Oral Presentation Session  
Session Chair  
Fast Track Cardiac Anesthesia Techniques and Recovery: Same in All Countries?  
Berlin, Germany  
September 17, 2008
- 11<sup>th</sup> International Congress of Cardiothoracic and Vascular Anesthesia  
Workshop Chair  
What You Need to Know About Evidence-Based Publications  
and Their Translation into Practice  
Berlin, Germany  
September 14, 2008

#### **Dr. Steven Dain**

- Outcomes XIII Barbados  
Director  
Multimedia and Organizing Committee  
Barbados, West Indies  
May 27 - 30, 2009
- The Winter Cardiac Team Meeting 2009  
Director  
Multimedia, Scientific Committee  
Member  
Organizing Committee  
Session V Moderator  
Mont-Tremblant, QC  
February 12 - 15, 2009

#### **Dr. Shalini Dhir**

- Master Class  
Torso Workshop  
Canadian Anesthesiologists' Society Annual Meeting  
Faculty Instructor  
Vancouver, BC  
June 26 - 30, 2009

- Ultrasound Guided Regional Block Workshop  
Instructor  
Jai Prakash Narayan Apex Trauma Centre  
All India Institute of Medical Sciences  
New Delhi, India  
February 14, 2009
- TEE and Ultrasound Guided Nerve Blocks  
Guest Faculty and Instructor  
Banaras Hindu University, India  
February 12, 2009
- 1<sup>st</sup> International Conference on Recent Advances In Anaesthesiology  
Guest Faculty and Overseas Co-ordinator  
New Delhi, India  
January 30 - February 1, 2009
- Ultrasound Guided Regional Anesthesia Workshop  
Instructor  
Indian Society of Anaesthesia Annual Meeting  
Jodhpur, India  
December 26 - 29, 2008
- Ultrasound Guided Nerve Blocks  
Preconference Workshop  
Instructor  
Jodhpur, India  
December 25, 2008
- CSTAR's Varkey Ultrasound Guided Anesthesia and Anatomy Update  
Co-chair and Instructor  
The University of Western Ontario  
November 29 - December 1, 2008
- 53<sup>rd</sup> Annual Ontario Anesthesia Meeting  
Instructor  
Niagara Falls, ON  
October 3 - 5, 2008
- Introductory Fresh Cadaver Dissection Workshop  
Instructor  
The University of Western Ontario  
September 6, 2008

### **Dr. Sugantha Ganapathy**

- Master Class On “Torso”  
Chair  
Canadian Anesthesiologists’ Society Annual Meeting  
Vancouver, BC  
June 29, 2009
- Oral Poster Session on Regional Anesthesia and Acute Pain  
Moderator/Facilitator  
Annual ASA Meeting  
Orlando, FL, USA  
October 18, 2008
- Reorganized the Scientific Committee of the Varkey Workshop and incorporated Professor Chan from the University of Toronto in the organizing group and scientific committee of the workshop. CSTAR co-ordinated this program in their world class facility. Key international faculty taught at this workshop with major collaboration with the Department of Anatomy. Professor Bernhard Moriggl from Innsbrook, Austria and Dr. Marjorie Johnson from the UWO Department of Anatomy, played a major role in the anatomy sessions and dissections. The invited faculty included Professor Andre Boezaart, Dr. Peter Cheng, Dr. Jose Carvalho, Dr. Anahi Perlas and Prof Krishna Boddu. The contents of the workshop were much appreciated by the registrants who considered this workshop as a one of a kind.

### **Dr. Jeff Granton**

- Canadian Critical Care Review Course  
Co-chair  
May 2009
- National Critical Care Resident’s Day  
Co-chair  
October 2008

### **Dr. Ngozi Imasogie**

- Refresher Course 4  
Chair  
The Triple Challenge of Ambulatory Anesthesia Education  
Surgeons, Residents and Staff  
Canadian Anesthesiologists’ Society Annual Meeting  
Vancouver, BC  
June 2009

**Dr. Ian McConachie**

- Ambulatory Program  
Organizer  
Canadian Anesthesiologists' Society Annual Meeting  
Vancouver, BC  
June 2009
- Debate  
Single Shot Blocks Should Not be Performed in the Ambulatory Patient  
Chair  
Canadian Anesthesiologists' Society  
Vancouver, BC  
June 2009
- Ambulatory Poster Session  
Chair  
Canadian Anesthesiologists' Society  
Vancouver, BC  
June 2009

**Dr. Patricia Morley-Forster**

- Royal College Accreditation of Pain Medicine as a Subspecialty  
Chair  
Task Force  
2008

**Dr. John Murkin**

- The Winter Cardiac Team Meeting 2009  
Meeting Chair/Organizer  
Mont-Tremblant, QC  
February 12 - 15, 2009
- The Winter Cardiac Team Meeting 2009  
Moderator  
The National Residents and Fellows Competition  
Mont-Tremblant, QC  
February 13 - 15, 2009

- Outcomes XIII Barbados  
Co-organizer  
Moderator  
Abstract Discussion II, Abstract Discussion II & V  
Session Chair  
Session 4: CNS Outcomes and Session 6: Overview  
Barbados, West Indies  
May 27 - 30, 2009

#### **Dr. Valerie Schulz**

- Palliative Care Pain Conference SWOMEN  
Conference Planning Committee  
Windsor, ON  
June 5, 2009
- 6<sup>th</sup> Annual Advanced Learning in Palliative Medicine Conference  
Canadian Palliative Medicine Meeting  
Conference Planning Committee  
February 26 - 28, 2008

#### **Dr. Michael Sharpe**

- Critical Care Canada Forum  
Moderator  
Hormones and Supplements  
Toronto, ON  
November 11, 2008
- Delegate, Organ Donation and Transplantation Syntegration  
Canada Blood Services  
Gatineau, QC  
September 22 - 24, 2008

#### **Dr. Indu Singh**

- Canadian Anesthesiologists' Society Annual Meeting  
Judge  
Resident Competition  
Vancouver, BC  
June 29, 2009

- Mac-Western Resident Research Day  
Judge  
June 12, 2009
- Society of Anesthesia and Perinatology (SOAP) Annual Conference  
Moderator  
Residents Session 1  
April 30, 2009
- Midwest Anesthesia Residents' Conference (MARC) 2009  
Moderator  
Obstetric Session  
March 18, 2009
- Varkey Workshop  
Instructor  
Infraclavicular Brachial Plexus Block and Transversus Abdominis Plane Blocks  
November 30, 2008

#### **Dr. Luminita Tureanu**

- CSTAR's Varkey Ultrasound-Guided Regional Anesthesia and Anatomy Update  
Workshop Demonstrator  
The University of Western Ontario  
November 29 - December 1, 2008
- Ultrasound Workshop  
53<sup>rd</sup> Annual Ontario Anesthesia Meeting  
Workshop Demonstrator  
October 5, 2008
- CSTAR's Introductory Ultrasound-Guided Regional Anaesthesia and Anatomy Lab  
Workshop Demonstrator  
The University of Western Ontario  
September 6, 2008

## INVITED LECTURES/VISITING PROFESSORSHIPS/WORKSHOPS

### **Dr. Miguel Arango**

- Colombian Congress of Anesthesia  
Lecture  
Near Infrared Spectrometry in Neuroanesthesia  
Lecture  
Intraoperative Complications in Neuroanesthesia  
Lecture  
Problem Based Learning Discussion in Head Injury  
Cundinamarca, Colombia  
March 19, 2009
- Second Neuroanesthesia, Neurocritical Care and Neurosurgery Meeting  
Lecture  
Intraoperative Ischemia in Neuroanesthesia  
Lecture  
Anesthesia for Head Injury Patients  
Medellin, Colombia  
December 7, 2008
- Airway Workshop  
Invited Speaker  
Workshop Demonstrator  
Fiberoptic  
London, ON  
October 2008

### **Dr. Kevin Armstrong**

- Canadian Anesthesiologists' Society Annual Meeting  
Pro/Con Debate  
Singleshoot Peripheral Nerve Blocks Should Not be Performed on  
Ambulatory Patients  
Vancouver, BC  
June 28, 2009



**Dr. Daniel Bainbridge**

- The Winter Cardiac Team Meeting 2009  
Lecture  
What's Hot and What's Not: A Review of Literature From 2008  
Case Conference  
Challenges in Minimal Access Surgery: TEE for Minimally Invasive Mitral Valves  
Mont-Tremblent, QC  
February 13 - 15, 2009
- Anaesthetic Management for Heart Transplantation  
Invited Speaker  
Max Healthcare Institute  
New Dehli, India  
January 2009
- 1<sup>st</sup> Annual INCRAA  
Invited Speaker  
Management of Low CO in the ICU  
Anesthesia for Robotic Surgery  
Glycemic Control in the ICU  
New Dehli, India  
January 30, 2009
- 6<sup>th</sup> Annual Toronto Perioperative TEE Symposium  
Invited Speaker  
Intraoperative Stroke and TEE  
Toronto, ON  
November 2008
- Ontario Anesthesia Meeting, Regional Meeting  
Invited Speaker  
The Naturopathic Anesthesiologists: Designing the All Natural Anesthetic  
for the 'Green' Generation  
The Bainbridge Report  
Niagara Falls, ON  
October 3 - 5, 2008
- ICCVA 2008  
Invited Speaker  
Robotic Coronary Revascularization and Hybrid Procedures  
TEE for Percutaneous Mitral Valve Procedures: Experience from Applications  
in Animals  
Berlin, Germany  
September 14 - 18, 2008

### Dr. Davy Cheng

- Canadian Journal of Anesthesia Symposium  
Improving the Reporting of Clinical Research  
Lecture  
Applying Levels of Evidence in Scholarly Publications  
Canadian Anesthesiologists' Society Annual Meeting  
Vancouver, BC  
June 28, 2009
- International Medical Congress on Perioperative Care for the Geriatric Patient  
Lecture  
OPCAB Surgery in Geriatric Patients: Evidence of Benefits?  
Mount Sinai School of Medicine, New York, NY, USA and  
Czech Society of Anaesthesiology and Intensive Care Medicine  
Prague, Czech Republic  
June 14 - 16, 2009
- 5<sup>th</sup> International Chinese Cardiovascular Anaesthesia Forum (ICCAF)  
Invited Honourable Speaker  
Plenary Lecture  
Controversies of Antifibrinolytic Agents in Cardiac Surgery  
Plenary Lecture  
TEE Certification for Anesthesiologists: A Formality or a Necessity?  
Panel Speaker  
Echocardiography Workshop Transesophageal Echocardiography in a Nutshell  
Certification: Expert Panel Discussion  
Hong Kong, China  
May 2 - 3, 2009
- 31<sup>st</sup> Society of Cardiac Anesthesiologists (SCA) Annual Meeting and Workshops  
Refresher Course Speaker  
Lecture  
Cardiac Surgery and Anesthesia: Past, Present and Future  
San Antonio, TX, USA  
April 18 - 22, 2009
- American College of Cardiology's Innovation in Intervention: i2 Summit  
Invited Presentation  
Endovascular Versus Open Surgical Repair of Thoracic Aortic Disease: A Meta-Regression Analysis (Video Interview by the Cardiosource Video Network - CVN)  
American College of Cardiology's 58<sup>th</sup> Annual Scientific Meeting  
Orlando, FL, USA  
March 30, 2009

- The Winter Cardiac Team Meeting 2009  
Lecture  
The Aprotinin Story  
Mont-Tremblant, QC  
February 15, 2009
- Mount Sinai School of Medicine 27<sup>th</sup> Annual Symposium  
Clinical Update in Anesthesiology, Surgery and Perioperative Medicine  
Lecture  
Cardiac Surgery: Past, Present and Future  
Fajardo, Puerto Rico  
January 19 - 24, 2009
- European Workgroup of Cardiothoracic Intensivists Annual Meeting  
Lecture  
Controversy of Antifibrinolytic Agents in Cardiac Surgery  
Lecture  
Perioperative Management and Recovery in Hybrid Robotic Coronary  
Revascularization Surgery  
Lecture  
Robotic Surgery: When, Why and Are We There Yet?  
Martinique, Fort de France  
November 29 - December 2, 2008
- ISMICS Winter Meeting  
Lecture  
OPCAB Surgery – Clinical Outcomes and Management  
Okinawa, Japan  
November 13 - 16, 2008
- American Society of Anesthesiologists (ASA) Annual Meeting  
Panel Speaker  
Lecture  
Off Pump and Robotic CABG - What is the Evidence of Benefit?  
Orlando, FL, USA  
October 20 - 22, 2009
- International Symposium on Hybrid Approach to Heart Diseases  
Lecture  
Perioperative Management and Recovery of Hybrid Coronary  
Revascularization Surgery  
Beijing, China  
October 15 - 19, 2008

- 11<sup>th</sup> International Congress of Cardiothoracic and Vascular Anesthesia (ICCVA)  
Lecture  
Past, Present and Future of Cardiac Surgery and Anesthesia  
Lecture  
Indication for Antifibrinolytic Agents: Lessons Learned from the  
Aprotinin Story  
Lecture  
Interpreting Research Data and Study Design  
Lecture  
Fast Track Cardiac Anesthesia in North America  
Berlin, Germany  
September 15 - 19, 2008
- 2009 Yonsei International Symposium of Critical Care  
Visiting Professor  
Lecture  
Right Ventricular Failure  
Severance Hospital, Yonsei University College of Medicine  
Seoul, Korea  
July 5, 2008
- Cardiac Anesthesia Annual Meeting  
Lecture  
Fast Track Perioperative Management in CABG, OPCAB and Robotic Surgery  
Anesthesia Agents and Techniques  
The Korean Society of Anesthesiologists  
Seoul, Korea  
July 4, 2008
- Kyongbuk National University Hospital  
Visiting Professor  
Lecture  
Fast Track Perioperative Management in CABG, OPCAB and Robotic Surgery  
Taegu, Korea  
July 3, 2008

#### **Dr. Rosemary Craen**

- Lecture  
Making a Mark  
Neuroanesthesia  
Toronto, ON  
February 2009

- Lecture  
Second Congress of Neuroanesthesia, Neurosurgery, and Neuro Critical Care  
Anesthesia for Supratentorial Tumors  
Hypothermia in Neuroanesthesia  
Medellin, Colombia  
December 2008

#### **Dr. Steven Dain**

- COACH Meeting  
Abstract Presentation by Dr. Steven Dain and Dr. Julian Goldman  
The Need for Interoperability of Medical Devices and the Electronic Health  
Record: Extending the Reach  
Vancouver, BC  
May 4, 2009
- Educational Presentation  
Physicians, Research and Development Engineers  
ISO Technical Committee 121 Subcommittee 3  
Application of Health Informatics to Critical Care Ventilators, Liaison Report  
With IHE, International Organization for Terminology in Anesthesia and HL7  
Kyoto, Japan  
January 27, 2009
- 1<sup>st</sup> Annual Biomedical - Information Management Leadership Forum  
Invited Speaker  
Presentation  
Applying Human Factors Engineering Principles to Strengthen  
Technology Management  
London Health Sciences Centre  
London, ON  
November 18, 2008
- Continuing Medical Education Presentation  
Visiting Professor  
Lecture  
What's New in Fluid Management?  
Hôtel-Dieu Grace Hospital  
Windsor, ON  
July 4, 2008

### **Dr. Achal Dhir**

- Visiting Professor  
Perioperative TEE Exam  
Department of Anesthesiology, Banaras Hindu University  
Varanasi, India  
February 12, 2009
- Visiting Professor  
Postoperative Cardiac ICU Care  
Department of Cardiothoracic and Vascular Surgery, Ram Manohar Hospital  
New Delhi, India  
February 3 - 4, 2009
- Visiting Professor  
Anesthesia for Orthotopic Liver Transplantation  
Max Hospital  
Saket, New Delhi, India  
February 3, 2009
- 1<sup>st</sup> International Conference on Recent Advances in Anaesthesia  
Lecture  
Simulators in Anesthesia Training  
All India Institute of Medical Sciences  
New Delhi, India  
January 30, 2009
- 1<sup>st</sup> International Conference on Recent Advances in Anaesthesia  
Lecture  
What's New in Liver Transplantation  
All India Institute of Medical Sciences  
New Delhi, India  
January 30, 2009
- Department of Cardiothoracic and Vascular Surgery, Ram Manohar Hospital  
Visiting Professor  
Trans Esophageal Echocardiography  
New Delhi, India  
October 11, 2008
- G B Pant Hospital  
Visiting Professor  
Recent Advances in Anesthesia  
New Delhi, India  
October 6, 2008

#### **Dr. Shalini Dhir**

- Ultrasound Guided Regional Blocks  
Jai Prakash Narayan Apex Trauma Center  
All India Institute of Medical Sciences  
New Delhi, India  
February 14, 2009
- TEE and Ultrasound Guided Nerve Blocks Workshop  
Recent Advances in Obstetric Anesthesia  
Banaras Hindu University  
Varanasi, India  
February 12, 2009
- Ultrasound Guided Regional Anesthesia  
Recent Advances in Postoperative Pain Management  
1<sup>st</sup> International Conference on Recent Advances in Anaesthesiology  
New Delhi, India  
January 30 - February 1, 2009

#### **Dr. Sugantha Ganapathy**

- Teaching Faculty  
Advanced USGRA Workshops and Lectures  
Lecture and Demonstrations  
A Number of Advanced Blocks Such As LFCN, IIN, TAPB and Obturator Blocks  
University of Toronto  
Toronto, ON  
June 21 - 22, 2009
- Blockit Workshop  
Visiting Professor and Guest Faculty  
Lecture  
Upper Limb and Lower Limb Ultrasonographic Anatomy for Regional Anesthesia  
Workshop  
Clinically Demonstrated on Patients Upper Limb, Lower Limb and  
Ilioinguinal Nerve Blocks as a Live Demonstration  
University of Hull  
Hull, UK  
June 17 - 18, 2009

- Ultrasound Esoterica Workshop  
Lecture and Workshop  
LFCN, Obturator and Saphenous Nerves Ultrasonographically  
Canadian Anesthesiologists' Society Annual Meeting  
Vancouver, BC  
June 2009
- Excellence in Regional Anesthesia  
Workshop  
Ultrasound Guided Regional Anaesthesia  
Organized by American Society of Regional Anesthesia and Pain Medicine  
San Francisco, CA, USA  
May 30 - 31, 2009
- Visiting Professor - Ultrasound and Anesthesia  
Lecture  
Ultrasound Guided Regional Anaesthesia – Grand Rounds  
University of Calgary  
May 27 - 29, 2009
- Advanced Regional Anesthesia 2009  
Invasive Pain Management Techniques and Regional Anesthesia  
Hands on Workshop  
Lecture  
Ultrasound and Regional Anesthesia  
Workshop  
Paravertebral, Lateral Femoral Cutaneous and Spine Imaging  
Organized by Wayne State University  
Wayne State University, Detroit, MI, USA  
May 2009
- American Society of Regional Anesthesia and Pain Medicine Meeting  
Lecture  
Ultrasound Guided Saphenous, Obturator, LFCN Blocks and Ultrasound Guided  
TAPB, IIN And IH Blocks  
Workshop  
Supervised Hands On Workshop of the Same Topics  
May 3, 2009



- International Symposium on Spine and Paravertebral Sonography  
for Anaesthesia and Pain Medicine  
Lecture  
Periarticular Infiltration Analgesia for Arthroplasty  
Chinese University of Hong Kong  
Shatin, Hong Kong  
April 9 - 11, 2009
- American Society of Regional Anesthesia and Pain Medicine Annual Meeting  
Guest Faculty  
Workshop  
Lower Limb and Truncal Blocks  
Phoenix, AZ, USA  
April 2009
- Advanced Ultrasound Guided Regional Anesthesia Workshops  
Teaching Faculty  
Lecture and Workshop  
Number of Advanced Blocks Such As LFCN, IIN, TAPB and Obturator Blocks  
University of Toronto  
Toronto, ON  
April 24 - 25, 2009
- Ultrasound Guided Regional Anesthesia  
Hands On Workshop  
Regina, MB  
January 2009
- Annual Orthopedic Anesthesia, Pain and Rehabilitation Society Pre American  
Society of Anesthesiologists Meeting  
Lecture  
A Pro/Con Lecture on Wound Infiltration Analgesia  
Workshop  
Guest Faculty Teacher  
Ultrasound Guided Lower Limb and Neuraxial Imaging  
University of Toronto  
Toronto, ON  
October 17, 2008

- Regional Anesthesia and Pain Medicine Conference  
Teaching Faculty  
Lecture  
Periarticular Infiltration for Fast Track Lower Limb Arthroplasty  
Pro/Con Debator  
Workshop  
Neurostimulation Guided Upper Limb Blocks  
University of Toronto  
Toronto, ON  
September 2008

#### **Dr. Ngozi Imasogie**

- Canadian Anesthesiologists' Society Annual Meeting  
Workshop Presenter  
Basic Ultrasound Guided Regional Anesthesia - Lower Limb  
Vancouver, BC  
June 2009
- Varkey Regional Anesthesia  
Workshop Presenter  
The University of Western Ontario  
London, ON  
December 2008

#### **Dr. Philip Jones**

- Lecture  
Currents in Critical Care - Heparin-Induced Thrombocytopenia  
London Health Sciences Centre  
London, ON  
February 2009
- Making a Mark  
Examiner  
February 2009

#### **Dr. Ian McConachie**

- Canadian Anesthesiologists' Society Annual Meeting  
Laryngeal Mask Airways Should Not be Used for Controlled Ventilation - A Debate  
Vancouver, BC  
June 2009

- Grand Rounds  
Blackpool Victoria Hospital  
Anaesthesia for Robotic Surgery  
Blackpool, UK  
April 2009
- 1<sup>st</sup> International Conference on Recent Advances in Anaesthesiology  
Recent Advances in Ambulatory Anesthesia  
New Delhi, India  
January 2009
- 1<sup>st</sup> International Conference on Recent Advances in Anaesthesiology  
Identification of Deterioration in the Perioperative Period  
New Delhi, India  
January 2009

#### **Dr. John Murkin**

- Canadian Anesthesiologists' Society Annual Meeting  
Lecture  
Navigating Through the Funding Agencies for Research Dollars  
Vancouver, BC  
June 27, 2009
- Outcomes XIII Barbados  
Lecture  
Cerebral Oximetry and Outcomes in Cardiac and Vascular Surgery  
Lecture  
Panvascular Inflammation: Perioperative CNS Outcomes 20 Years On  
Barbados, West Indies  
May 27 - 30, 2009
- Annual Swedish Cardiovascular Spring Meeting  
Distinguished Speaker – 2009 Lars Werkö Lecture  
Neurological Outcomes After Cardiac Surgery: What Have We Learned and  
Where to From Here  
Hosted by the Swedish Heart Association  
Uppsala, Sweden  
April 22, 2009

- The Winter Cardiac Team Meeting 2009  
Lecture  
Genetics: The Role in Perioperative Injury in Cardiac and Vascular Patients?  
Lecture  
Applied Neuromonitoring in Cardiac Surgery  
Mont-Tremblant, QC  
February 12 - 15, 2009
- Dalhousie University  
Visiting Professor  
Cerebral Oximetry and Systematic Outcomes in Cardiac Surgery  
Halifax, NS  
May 20, 2009
- 7<sup>th</sup> Current Trends in Aortic and Cardiothoracic Surgery  
Hosted by  
Baylor College of Medicine and the  
Texas Heart Institute  
Continuing Medical Education Presentation  
Neurocognitive Dysfunction Following Cardiac Surgery  
Houston, TX, USA  
May 2, 2009
- 6<sup>th</sup> International Course on Extracorporeal Perfusion Technologies (INTERCEPT)  
Hosted by the IRCSS Policlinico S. Donato Milanese - Milano  
Continuing Medical Education Presentation  
Near-Infrared Spectroscopy for Brain Function Monitoring  
Lecture  
One Year Without Aprotinin  
Milan, Italy  
April 16 - 17, 2009
- Mount Sinai School of Medicine  
Continuing Medical Education Presentation – Grand Rounds  
Cerebral Oximetry and Systematic Outcomes in Cardiac Surgery  
New York City, NY, USA  
April 1, 2009

- New Horizons in Anesthesiology  
Emory University School of Medicine - The Department of Anesthesiology  
Lecture  
Genetic Susceptibility to Cognitive Injury, Inflammation  
and Adverse Outcomes  
Lecture  
The Ventilator: PaCO<sub>2</sub> and the Clinical Implications of Ventilatory Management  
Lecture  
Near Infrared Cerebral Monitoring  
Lecture  
The Aprotinin Story  
Cozumel, Mexico  
March 23, 2009
- 3<sup>rd</sup> International Congress on Aortic Surgery and Anesthesia  
How To Do It  
Hosted by San Raffaele Congress Centre, Department of Cardiovascular &  
Thoracic Surgery  
Lecture  
Near-Infrared Spectroscopy (NIRS) Monitoring in Aortic Arch Surgery  
Milan, Italy  
December 11 - 13, 2008
- Leonard M. Miller School of Medicine at the University of Miami  
Department of Anesthesiology  
Continuing Medical Education Presentation – Grand Rounds  
Cerebral Oximetry Improves CNS and Systematic Outcomes in  
Cardiac Surgery  
Miami, FL, USA  
October 23, 2008
- 2<sup>nd</sup> Biennial Meeting – Cardiac Surgery Care 2008  
Neuroprotection During Cardiac Surgery  
Hosted by the University of Lübeck  
Department of Anesthesiology and Department of Cardiac Surgery  
Lecture  
Cerebral Oxygenation Monitoring  
Lecture  
Perfusion Concepts to Decrease Neurological Complications – Best Practice  
Bypass  
Lübeck, Germany  
October 3 - 4, 2008

- Evening Dinner Presentation  
Lecture  
Cerebral Oximetry Improves CNS and Systematic Outcomes in Cardiac Surgery  
Chattanooga, TN, USA  
August 19, 2008
- Perfusion Downunder Winter Meeting 2008  
Lecture  
NIRS - A Standard Care For CPB?  
Lecture  
Biovariability of Pulsatile Perfusion During CPB?  
Lecture  
Genetic Susceptibility to Inflammatory Injury and Various Adverse Outcomes  
Queenstown, New Zealand  
August 7 - 10, 2008

#### **Dr. Valerie Schulz**

- Palliative Care Pain Conference  
Lecture  
Difficult Palliative Care Cases  
SWOMEN  
Windsor, ON  
June 5, 2009

#### **Dr. Michael Sharpe**

- Increasing Access and Reducing Wait Times for Transplantation in Ontario  
The Path Forward  
The MaRS Centre  
Donation after Cardiocirculatory Death  
Toronto, ON  
May 4, 2009
- Critical Care Grand Rounds  
Vancouver General Hospital  
Donation after Cardiocirculatory Death  
Vancouver, BC  
December 11, 2008

- Critical Care Canada Forum  
Continuous EEG Monitoring in the ICU  
Toronto, ON  
November 11, 2008
- Trillium Gift of Life Provincial Clinical Co-ordinators  
Teleconference Lecture  
Neurological Determination of Death and New Ancillary Testing Guidelines  
London, ON  
August 27, 2007

### **Dr. Indu Singh**

#### Poster Presentations

- Kruger P, Singh SI  
Anesthetic Management For Cesarean Delivery in a Parturient with  
Andersen-Tawil Syndrome  
2009 Midwest Anesthesia Residents Conference  
Chicago, IL, USA  
March 2009  
Mac-Western Resident Research Day 2009  
Hamilton, ON  
June 12, 2009  
Canadian Anesthesiologists' Society Annual Meeting 2009  
June 2009  
Vancouver, BC
- Silva M, Singh SI  
Propsective Feasibility Study of Low Dose Hyperbaric Spinal Bupivacaine for  
Cesarean Section  
2009 Midwest Anesthesia Residents Conference  
Society for Obstetric Anesthesia and Perinatology Annual Meeting 2009
- Silva M, Arango M, Singh SI  
Anesthetic Management of Cerebellar AVM During Pregnancy: A Case Report  
2009 Midwest Anesthesia Residents Conference  
Chicago, IL, USA  
March 2009  
Society for Obstetric Anesthesia and Perinatology Annual Meeting 2009  
Washington, DC, USA  
April 29 - May 3, 2009

## BOARDS/COMMITTEES/OTHER

### **Dr. Robert Banner**

- Canadian Journal of Integrative Medicine  
Editorial Board
- Applying Functional Medicine in Clinical Practice, San Antonio, TX, USA  
Qualification in Functional Medicine
- Ontario Society of Physicians for Complementary Medicine  
President Elect
- Journal of Prolotherapy  
Editorial Board
- American Holistic Medical Association  
Member

### **Dr. Davy Cheng**

- International Anesthesia Research Society (IARS) Board of Trustees  
Teaching Awards Committee  
Research Awards Committee  
Scientific Program Committee
- Society of Cardiovascular Anesthesiologists (SCA)  
International Committee
- Canadian Society for the Advancement of Blood Management (SABM)  
Editor-in-Chief  
Selection Committee  
Board of Directors  
Chair, Bylaws Task Force  
Communications Committee Member  
Co-editor, Newsletter
- Council on Cardiovascular Surgery and Anesthesia  
Member
- Council on Cardiopulmonary, Critical Care, Perioperative and Resuscitation  
Member
- American Stroke Association  
Member
- American Heart Association  
Member
- Association of Canadian University Departments of Anesthesia (ACUDA)  
Secretary-Treasurer



- Safety and Monitoring Committee, Multi-Centers POISE Trial  
Member
- Canadian Anesthesiologists' Society Cardiovascular and Thoracic Section  
Executive Committee
- Schulich Council, The University of Western Ontario  
Executive Committee Member
- Chair/Chief Department of Surgery, Schulich School of Medicine & Dentistry,  
The University of Western Ontario  
Selection Committee
- Admissions and Student Affairs, Schulich School of Medicine & Dentistry,  
The University of Western Ontario  
Advisory Committee on Assessment of Associate Dean
- Equity and Gender Issues, and Faculty Health, Schulich School of Medicine &  
Dentistry, The University of Western Ontario  
Advisory Committee on Assessment of Associate Dean
- Medical Advisory Executive Committee, LHSC  
Member
- Anesthesia Care Team Evaluation Panel  
Ministry of Health and Long-Term Care (MOHLTC)
- Canadian Surgical Technologies & Advanced Robotics (CSTAR)  
Education Committee Member
- South West LHIN Health Human Resources Advisory Group  
Member
- Ontario Blood Advisory Committee to the Ministry of Health and  
Long-Term Care (MOHLTC)  
Member
- Seminars in Cardiothoracic and Vascular Anesthesia  
Editorial Board
- Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery  
Editorial Board  
Official Journal of the International Society for Minimally Invasive Cardiac  
Surgeons (ISMICS)
- Canadian Journal of Anesthesia  
Editorial Board
- Journal of Cardiothoracic and Vascular Anesthesia  
Editorial Board
- Anesthesiology Clinics  
Guest Editor

**Dr. Ian McConachie**

- CPD Anaesthesia  
Editorial Board
- Canadian Anesthesiologists' Society Ambulatory Section  
Chair
- Canadian Anesthesiologists' Society  
Abstract Review Committee

**Dr. Patricia Morley-Forster**

- OMA Committee on Guidelines  
Chair  
May 2009
- National Opioid Use Guideline Group (NOUGG)  
Invited Member
- National Task Force Addressing Tertiary Pain Clinic Wait Times  
Invited Member
- OMA Section of Chronic Pain Physicians  
Elected to Executive
- Royal College Accreditation of Pain Medicine as a Subspecialty Task Force  
Chair

**Dr. Michael Sharpe**

- Premier's Organ and Tissue Transplantation Wait Times Expert Panel  
Ministry of Health and Long-Term Care  
Member

**Dr. Jim Watson**

- OMA Section of Anesthesiology  
Executive Member



# FACULTY PUBLICATIONS

## PEER-REVIEWED PUBLICATIONS

1. **Arango MF, Bainbridge D**  
Magnesium for Acute Traumatic Brain Injury. Cochrane Database Syst Review 2008 Oct; 8 (4): CD005400
2. **Badner N**, et al and the ANZCA Trials Group  
Nitrous Oxide and Perioperative Cardiac Morbidity (ENIGMA-II) Trial: Rationale and Design. Am Heart J. 2009 Mar; 157 (3): 488 - 494
3. **Bainbridge D, Cheng, D**  
Minimally Invasive Direct Coronary Artery Bypass and Off Pump Coronary Artery Bypass Surgery: Anesthetic Considerations  
Anesthesiol Clin. 2008 Sep; 26 (3): 437 - 52
4. **Bainbridge D, Cheng DC**  
Stress-Induced Cardiomyopathy in the Perioperative Setting  
Can J Anesth 2009 Jun; 56 (6): 397 - 401
5. Khalifah N, **Bainbridge D**, Lownie S, Quantz M, **Craen RA**  
The Use of Near-Infrared Spectroscopy (NIRS) in Surgical Clipping of Giant Cerebral Aneurysm. Eur J Anaesthesiol. 2008 Oct; 25 (10): 866 - 8
6. Karkouti K, Wijeyesundera DN, Yau TM, Callum JLC, **Cheng DC**, Crowther M, Dupuis JY, Fremes SE, Kent B, Laflamme C, Lamy A, Legare JF, Mazer CD, McClusky SA, Rubens FD, Sawchuk C, Beattie WS  
Acute Kidney Injury After Cardiac Surgery: Focus on Modifiable Risk Factors  
Circulation, 2009; 119 (4): 495 - 502
7. Karkouti K, Beattie WS, Arellano R, Aye T, Bussieres JS, Callum JL, **Cheng D**, et al  
Comprehensive Canadian Review of the Off-Label Use of Recombinant Activated Factor VII in Cardiac Surgery. Circulation. 2008 Jul 22; 118 (4): 331 - 8

8. Turina M, Shennib H, Dunning J, **Cheng D**, **Martin J**, et al  
EACTS/ESCVS: Best Practice Guidelines for Reporting Treatment Results in the Thoracic Aorta. *Euro J Cardiothorac Surg*. 2009 Jun; 35 (6): 927 - 30
9. Pepper J, **Cheng D**, **Martin J**, et al  
Stentless Versus Stented Bioprosthetic Aortic Valves: A Consensus Statement of the International Society of Minimally Invasive Cardiothoracic Surgery (ISMICS) 2008  
*Innovations: Technology and Techniques in Cardiothoracic Vasc Surg* 2009; 4 (2): 49 - 60
10. **Cheng D**, Pepper J, **Martin J**, et al  
Stentless Versus Stented Bioprosthetic Aortic Valves: A Systematic Review and Meta-Analysis of Controlled Trials. *Innovations: Technology and Techniques in Cardiothoracic Vasc Surg* 2009 Mar; 4 (2): 61 - 73
11. **Dhir S**, **Tureanu L**, Stewart SA  
Axillary Brachial Plexus Block Complicated by Cervical Disc Protrusion and Radial Nerve Injury. *Acta Anaesthesiol Scand* 2009 Mar; 53 (3): 411
12. **Dhir S**, **Ganapathy S**  
Comparative Evaluation of Ultrasound-Guided Continuous Infraclavicular Brachial Plexus Block with Stimulating Catheter and Traditional Technique: A Prospective Randomized Trial. *Acta Anaesthesiol Scand*. 2008 Sep; 52 (8): 1158 - 66
13. **Dhir S**, Balasubramanian S, Ross D  
Ultrasound-Guided Peripheral Regional Blockade in Patients with Charcot-Marie-Tooth Disease: A Review of Three Cases. *Can J Anaesth*. 2008 Aug; 55 (8): 515 - 20
14. Landis RC, Arrowsmith JE, Baker RA, de Somer F, **Dobkowski WB**, Fisher G, Jonas RA, Likosky DS, **Murkin JM**, et al  
Consensus Statement: Defining Minimal Criteria for Reporting the Systemic Inflammatory Response to Cardiopulmonary Bypass. *Heart Surg Forum*. 2008 Oct; 11 (5): E316 - E322
15. Kiaii B, **Dobkowski W**, **Jones PM**, **Bainbridge D**, **Iglesias I**, **Murkin JM**, **Cheng D**, et al  
Simultaneous Integrated Coronary Artery Revascularization with Long-Term Angiographic Follow-Up. *J Thoracic Cardiovasc Surgery*. 2008 Sep; 136 (4): 702 - 708
16. **Granton J**, **Cheng D**  
Risk Stratification Models for Cardiac Surgery. *Semin Cardiothorac Vasc Anesth*. 2008 Sep; 12 (3): 167 - 174

17. **Imasogie NN, Singh SI, Watson JT**, Hurly D, **Morley-Forster P**  
Ultra Low-Dose Naloxone and Tramadol/Acetaminophen in Elderly Patients Undergoing Joint Replacement Surgery: A Pilot Study. *Pain Res & Manage* 2009 Mar; 14 (2): 103 - 108
18. **Jones PM, Armstrong KP, Armstrong PM, Cherry RA, Harle CC, Hoogstra J, Turkstra TP**  
A Comparison of GlideScope® Videolaryngoscopy to Direct Laryngoscopy for Nasotracheal Intubation. *Anesth Analg*. 2008 Jul; 107 (1): 144 - 8
19. Kiaii B, McClure RS, Stewart P, **Jones PM**  
Simultaneous Integrated Coronary Artery Revascularization with Long-Term Angiographic Follow-Up. *J Thorac Cardiovasc Surg*. 2008 Sep; 136 (3): 702 - 8
20. Zhu XY, Daghini E, Chade AR, **Lavi R**, et al  
Disparate Effects of Simvastatin on Angiogenesis During Hypoxia and Inflammation. *Life Sci*. 2008 Dec 5; 83 (23-24): 801 - 9
21. Chade AR, Zhu X, **Lavi R**, et al  
Endothelial Progenitor Cells Restore Renal Function in Experimental Renovascular Disease. *Circulation*. 2009 Feb 3; 119 (4): 547 - 57
22. **Lavi R**, Segal D, Zise A  
Predicting Difficult Airways Using the Intubation Difficulty Scale. A Study Comparing Obese to Non-Obese. *J Clin Anesth*, 2009 Jun; 21 (4): 264 - 7
23. Clarke C, **McConachie I, Banner R**  
Lidocaine Infusion as a Rescue Analgesic in the Perioperative Setting. *Pain Research and Management*. *Pain Res Manag*. 2008 Sep-Oct; 13 (5): 421 - 3
24. Dunning J, **Martin J**, Shennib H, **Cheng D**  
Is it Safe to Cover the Left Subclavian Artery when Placing an Endovascular Stent in the Descending Thoracic Aorta? *Interact Cardiovasc Thorac Surg*. 2008 Aug; 7 (4): 690 - 7
25. **Murkin JM**  
Applied Neuromonitoring and Improving Central Nervous System Outcomes Artificial Organs. 2008 Nov; 32 (11): 851 - 5
26. Landis RC, **Murkin JM**, Stump DA  
Introduction: Outcomes 2008. *Heart Surg Forum*. 2008; 11 (5): E304
27. **Murkin JM**  
Lessons Learned in Antifibrinolytic Therapy: The BART Trial. *Semin Cardiothorac Vasc Anesth*. 2009 Jun; 13 (2): 127 - 31
28. Watling CJ, Kenyon CF, Zibrowski EM, **Schulz V**, Goldzsmidt M, **Singh I**, et al  
Rules of Engagement: Residents' Perceptions of the In-Training Evaluation Process. *Acad Med*. 2008 Oct; 83 (10 Suppl): S97 - 100

29. Savard M, Al Thenayan E, Norton L, **Sharpe MD**, Young B  
Continuous EEG Monitoring in Severe Guillain-Barré Syndrome Patients  
J Clin Neurophysiol. 2009 Feb; 26 (1): 21 - 3
30. Gofton TE, Chouinard PA, Young GB, Bihari F, Nicolle MW, Lee DH,  
**Sharpe MD**, et al  
Functional MRI Study of the Primary Somatosensory Cortex in Comatose  
Survivors of Cardiac Arrest. Exp Neurol. 2009 Jun; 217 (2): 320 - 7
31. Al Thenayan E, Savard M, **Sharpe MD**, Norton L, Young B  
Predictors of Poor Neurologic Outcome After Induced Mild Hypothermia  
Following Cardiac Arrest. Neurology. 2008 Nov 4; 71 (19): 1535 - 7
32. Mirsattari SM, Davies-Schinkel C, Young GB, **Sharpe MD**, Ives JR, Lee DH  
Usefulness of a 1.5 T MRI-Compatible EEG Electrode System for Routine Use  
in the Intensive Care Unit of a Tertiary Care Hospital. Epilepsy Res. 2009 Mar;  
84 (1): 28 - 32
33. **Taneja R**, Quaghebeur B, **Bainbridge D**, et al  
Evaluation of Epicardial Echocardiography in the Measurement of Transvalvular  
Flow Velocity Measurements During Aortic Valve Replacement. Journal of  
Cardiothoracic and Vascular Anesthesia. 2009 Jun; 23 (3): 292 - 7
34. **Taneja R**, Morris MR, Hallett MB  
Immature Circulating Neutrophils in Sepsis Have Impaired Phagocytosis and  
Aberrant Ca<sup>2+</sup> Signalling. Shock. 2008 Dec; 30 (6): 618 - 22
35. **Taneja R**, Fernades P, Marwaha G, **Cheng D**, **Bainbridge D**  
Perioperative Coagulation Management and Blood Conservation in Cardiac  
Surgery – A Canadian Survey. J Cardiothoracic Vasc Anesthesia. 2008 Oct;  
22 (5): 662 - 9
36. **Turkstra TP**, **Jones PM**  
Simplifying the Non-Cardiac Surgery Evaluation Pathway. Anesth Analg. 2009  
Jan; 108 (1): 383 - 4

## ABSTRACTS/CASE REPORTS

37. **Arango M**, Lownie S, **Murkin JM**  
Correlation of Measured Internal Carotid Stump Pressure and Regional Cerebral  
Oxygen Saturation using Near Infrared Spectroscopy in Patients Undergoing  
Carotid Endarterectomy: Preliminary Results [Abstract]. 2009 May 29;  
Outcomes XIII: Barbados, Barbados, WI (Presented)

38. Tran DTT, **Badner N, Nicolaou G, Sischek W**  
Arterial PCO<sub>2</sub> Changes During Thoroscopic Surgery with CO<sub>2</sub> Insufflation and one Lung Ventilation [Abstract]. 2009 Jun; CAS: Annual Meeting Vancouver, BC (Presented)
39. Prapaitrakool S, **Bainbridge D**, Klein G, Skanes A, **Lavi R**  
Anesthesia for Atrial Alation in Post Heart Transplant Patients [Abstract] 2009; The 2009 SCA Conference, Vancouver, BC (Presented); and the 2009 SCA Conference, San Antonio, TX, USA (Presented)
40. Wang G, **Bainbridge D, Martin J, Cheng D**  
Efficacy of Intraoperative Cell Saver During Cardiac Surgery: A Meta-Analysis of Randomized Trials [Abstract]. 2008 Oct; ASA 2008 Annual Meeting, Orlando, FL, USA (Presented)
41. Guiraudon GM, **Bainbridge D**, Peters T, Douglas L, **Jones PM**  
The Feasibility of Introducing and Positioning a Mechanical Aortic Valve Through the Left Ventricular Apex via the Universal Cardiac Introducer (UCI), Using Only Ultrasound Image-Guidance in the Off-Pump, Beating Pig Heart [Abstract]. 2009; ISMICS Abstract No. 34
42. Guiraudon GM, Jones DL, **Bainbridge D**, Skanes AC, Peters TM  
A Novel, Comprehensive, Minimally Invasive Surgical Approach for Atrial Fibrillation [Abstract]. 2008; CCS Abstract No. 0144 - 078
43. **Bainbridge D, Martin J**, Kim M, **Cheng D**  
Sevoflurane Safety Compared to Propofol/Inhalational Agents – A Meta-Analysis of Randomized Trials [Abstract]. 2008 Oct; ASA 2008 Annual Meeting, Orlando, FL, USA (Presented)
44. **Bainbridge D, Jones PM**, Guiraudon GM, Peters TM  
Ultrasound Image and Augmented Reality Guidance for Off-Pump, Closed, Beating, Intracardiac Surgery. Artif Organs. 2008 Nov; 32 (11): 840 - 5
45. Hurlock-Chorostecki CJ, **Butler R, Bainbridge D**, Novick RJ  
A Case-Control Analysis of Readmissions and Deaths within 48 Hours of Discharge from a Cardiac Surgery Recovery Unit [Abstract]. 2008; CCS Abstract No. 0264 - 184
46. **Cheng D**, Turina M, **Martin J**  
Endovascular Versus Open Surgical Repair of Thoracic Aortic Disease: A Meta-Regression Analysis [Abstract]. 2009 Mar; American College of Cardiology 58<sup>th</sup> Annual Scientific Session, Orlando, FL, USA (Presented)
47. **Dain S**, Goldman J  
The Need for Interoperability of Medical Devices and the Electronic Health Record: Extending the Reach [Abstract]. 2009 May



48. **Jones PM, Turkstra TP, Armstrong KP, Armstrong PM, Harle CC**  
Comparison of a Single-Use GlideScope® Cobalt Video-Laryngoscope with a Conventional GlideScope® for Orotacheal Intubation [Abstract]. 2009 Jun; Canadian Anesthesiologists' Society Annual Meeting (Presented)
49. **Lavi R**, Meineri M, Carroll J, Karski J, Djaiani G  
Diastolic Dysfunction and Postoperative Atrial Fibrillation in Patients Undergoing Coronary Revascularization Surgery [Abstract]. 2008; The CAS Conference, Vancouver, BC (Presented); and the CAS Conference, Halifax, NS (Presented)
50. Zhu XY, Chade AR, Krier JD, **Lavi R**, et al  
Endothelial Progenitor Cells Improve Renal Function in Experimental Atherosclerotic Renovascular Disease [Abstract]. 2008; The 62<sup>nd</sup> High Blood Pressure Research Conference, Atlanta, GA, USA (Presented)
51. Zhu XY, Chade AR, Krier JK, Daghini E, **Lavi R**, et al  
Inhibition of the Chemokine Monocyte Chemoattractant Protein-1 Decreases Recruitment of Circulating Fibrocytes to the Stenotic Porcine Kidney in Renovascular Hypertension [Abstract]. 2008; The 62<sup>nd</sup> High Blood Pressure Research Conference, Atlanta, GA, USA (Presented)
52. Lin J, Zhu X, Chade AR, Jordan KL, **Lavi R**, et al  
Monocyte Chemoattractant Proteins Mediate Myocardial Microvascular Dysfunction in Swine Renovascular Hypertension [Abstract]. 2008; The 62<sup>nd</sup> High Blood Pressure Research Conference, Atlanta, GA, USA (Presented)
53. **Lavi R**, Katznelson R, Carroll J, Karski J, Djaiani G  
Platelet Transfusion and Neurocognitive Dysfunction after Cardiac Surgery [Abstract]. 2008; The ASA, Orlando, FL, USA (Presented)
54. **Martin J, Bainbridge D, Cheng D**  
Off-Pump Versus On-Pump Coronary Artery Bypass Surgery: Do Elderly Patients Benefit the Most? [Abstract]. 2009 Jun; Int Congress on Perioperative Care for the Geriatric Patients, Prague, Czech Republic (Presented)
55. **Martin J**, Connelly S, Tsui E, Shortridge L, **Bainbridge D, Cheng D**  
Proton Pump Inhibitors Versus H2-Receptor Antagonists for Stress Ulcer Prophylaxis in Mechanically Ventilated Intensive Care Patients: A Meta-Analysis [Abstract]. Gastroenterology. 2009 May; 136 (5-Suppl 1): A-636
56. **Murkin JM**  
INVOS Cerebral Oximetry Monitoring in Diabetic Patients Undergoing Coronary Bypass Surgery Significantly Decreases the Incidence of Cognitive Dysfunction [Abstract]. 2009 Feb 14; The Winter Cardiac Team Meeting, Mont-Tremblant, QC (Presented)

57. **Murkin JM**, Slade H, Adams SA, Dihik P, Pardy E, Birkett K  
Preoperative Renal Impairment is a Risk Factor for Postoperative Cognitive Dysfunction [Abstract]. 2009 May 29; Outcomes XIII: Barbados, Barbados, WI (Presented).
58. **Nicolaou G**, Clarke C, **Murkin JM**, **Badner N**, Forbes T  
Use of Spinal Near-Infrared Spectroscopy (NIRS) for Monitoring Spinal Cord Perfusion in Endovascular Repair of Thoracoabdominal Aneurysm (TAAA) [Abstract]. 2009 May 29; Outcomes XIII: Barbados, Barbados, WI (Presented)
59. **Sharpe MD**, Haddara W, Harris C  
Predicting Successful Extubation is Not Just a Number [Abstract]. 2009; CCM (32): A136
60. Secor D, Li F, Ellis CG, **Sharpe MD**, Wilson JX, Tyml K  
Septic Impairment of Capillary Blood Flow Requires Activated Coagulation Pathway and is Reversed by Ascorbate Through eNOS-Dependent Dislodging of Platelets in Capillaries [Abstract]. 2009; FASEB (23): 593 - 6
61. Fernandes P, **Taneja R**, **Cheng D**, **Bainbridge D**, Marwaha G  
Perioperative Coagulation Management and Blood Conservation in Cardiac Surgery: A Canadian Survey [Abstract]. 2008 Oct 27; CCS, Toronto, ON (Presented)
62. **Turkstra TP**, **Ower KM**, **Gros ML**, **Jones PM**  
RCT: Comparison of Flex-It™ to Malleable Stylet During GlideScope® Use [Abstract]. 2009 Jun; Can. Anesthesiologists Society Annual Meeting (Presented)

## BOOKS/BOOK CHAPTERS/VIDEOS

1. Paez AF, **Arango MF**  
Electrocorticografia y Estimulacion Cortical (Chapter 4). In: Nino CM, Villaverde RM, Cohen D, eds. Neuromonitoria. Columbia: Distribuna Editorial; 2009 Feb.
2. **Bainbridge D**, **Cheng D**  
Evidence-Based Practice for Fast Track Cardiac Anesthesia – Is it Safe? (Chapter 61). In: Fleisher LA, ed. Evidence-Based Practice of Anesthesiology. 2<sup>nd</sup> Ed. USA: WB Saunders Publishers; 2009: 411 - 414
3. **Cheng DC**, Craig A, **Ralley F**  
Cardiac Surgery (Chapter 18). In: Waters J, ed. Special Surgical Management Bethesda, Maryland: AABB Press; 2008: 423 - 441

4. **Cheng DC, Bainbridge D**  
Postoperative Cardiac Recovery and Outcomes (Chapter 26). In: Kaplan JA, ed. Essentials of Cardiac Anesthesia. Philadelphia, PA: Elsevier; 2008: 629 - 642
5. **Cheng DC, Harle C**  
Transfusion Reaction (Chapter 35). In: Lobato EB, Gravenstein N, Kirby RR, eds. Complications in Anesthesia. 3<sup>rd</sup> ed., Philadelphia: Lippincott Williams & Wilkins; 2008: 507 - 519
6. **Dhir S, Ganapathy S**  
Pharmacological Management of Trauma (Chapter 34). In: Smith, CE., ed. Trauma Anesthesia. New York: Cambridge University Press; 2008: 528 - 543
7. **Dhir S, Ganapathy S**  
Trauma and Regional Anesthesia (Chapter 31). In: Smith, CE., ed. Trauma Anesthesia. New York: Cambridge University Press; 2008: 471 - 498
8. **McConachie I**  
ed. Anesthesia for the High Risk Patient. United States: Cambridge University Press; 2009
9. **Cheng D**  
Foreword In: **McConachie I**, ed. Anesthesia for the High Risk Patient  
United States: Cambridge University Press; 2009: vii
10. **Dhir S**  
Regional Anesthesia for the High-Risk Patient (Chapter 8): 109 - 119
11. **Granton J**  
Respiratory Risk and Complications (Chapter 6): 84 - 92
12. **Harle C**  
The Patient with Cardiac Disease Undergoing Noncardiac Surgery (Chapter 16): 241 - 262
13. **Jones PM, Turkstra T**  
Gastrointestinal Surgery (Chapter 18): 278 - 292
14. **McConachie I**  
Anemia, Coagulopathy and Blood Transfusion (Chapter 9): 120 - 134
15. **McConachie I**  
The Critically Ill Patient Undergoing Surgery (Chapter 14): 198 - 224
16. Vaughan S, **McConachie I, Imagosie NN**  
The Elderly Patient (Chapter 15): 225 - 240
17. Dean P, Cupitt J, **McConachie I**  
Identification of the Deteriorating Patient in the Perioperative Period (Chapter 12): 163 - 177

18. Sharma R, Dunkley C, **McConachie I**  
Lessons from Anesthetic Audits and Epidemiological Studies (Chapter 2):  
20 - 30
19. Evans G, **McConachie I**  
Smoking, Alcohol, and Recreational Drug Abuse (Chapter 11): 149 - 162
20. **McConachie I**  
Vascular Surgery (Chapter 17): 263 - 277
21. **Morley-Forster PK**, Clarke C  
Analgesia for the High-Risk Patient (Chapter 7): 93 - 108

## NON-PEER REVIEWED PUBLICATIONS/ LETTERS/EDITORIALS/REVIEWS

1. **Cheng DC** (Guest Ed)  
Cardiac Anesthesia: Today and Tomorrow. Anesthesiology Clinics. 2008; 26 (3):  
399 - 612
2. **Jones PM**  
Nasotracheal Intubation, Direct Laryngoscopy and the GlideScope® (reply)  
Anesth Analg. 2009 Feb; 108 (2): 674
3. **Jones PM**  
Perioperative glycemic control and postoperative cognitive dysfunction: an  
expression of caution. Can J Anaesth. 2008 Aug; 55 (8): 559 - 60;  
author reply 560
4. **Murkin JM** (Guest Ed)  
Introduction. Semin Cardiothorac Vasc Anesth. 2009 Jun; 13 (2): 77
5. **Murkin JM**  
NIRS: a standard of care for CPB vs. an evolving standard for selective cerebral  
perfusion? (Review). J Extra Corpor Technol. 2009 Mar; 41 (1): P11 - 4

## INTERNATIONAL STANDARDS PUBLICATIONS

Dr. Steven Dain is Head of the Canadian Delegation, Organization for International Standardization (ISO Technical Committee 121 Anaesthetic and Respiratory Equipment). He is also Chairman of the Canadian Advisory Committee to ISO TC 121. He sits on numerous national and international committees related to the writing of biomedical engineering standards for medical electrical equipment, and adoption of these international standards for the Standards Council of Canada. Such standards are used by manufacturers in the design, risk management and verification of performance of medical devices and equipment and by national regulatory agencies such as Health Canada and the US FDA for licensing purposes.

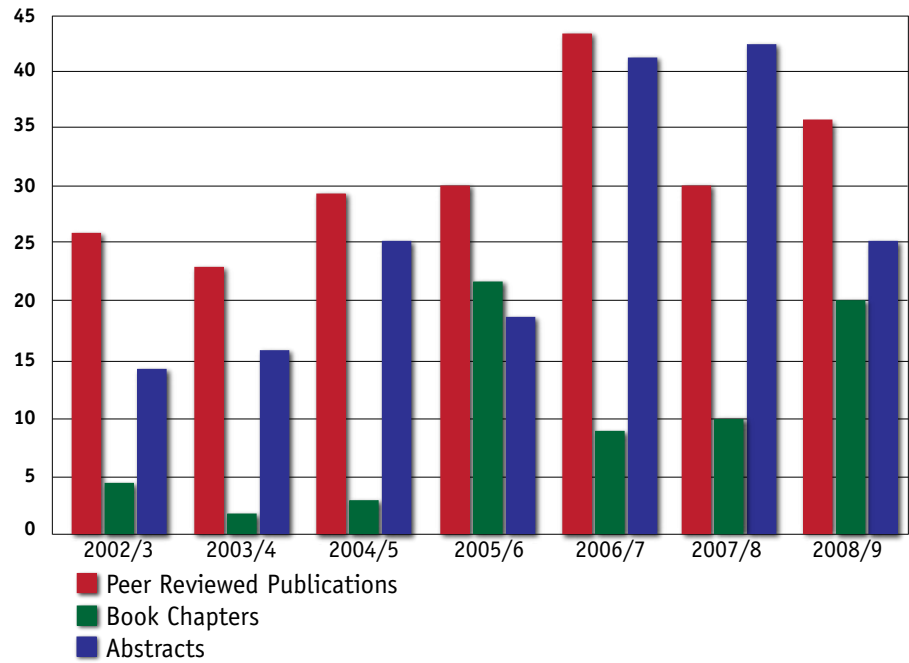
### International Standards Reviewed & Published

- IEC 80601-2-59:2008 - Medical electrical equipment - Part 2-59: Particular Requirements for Basic Safety and Essential Performance of Screening Thermographs for Human Febrile Temperature Screening
- ISO 11712:2009 - Anaesthetic and Respiratory Equipment - Supralaryngeal Airways and Connectors
- ISO 16628:2008 - Tracheobronchial tubes - Sizing and Marking
- ISO/TR 13154:2009 - Medical Electrical Equipment - Deployment, Implementation and Operational Guidelines for Identifying Febrile Humans Using a Screening Thermograph
- ISO 27427:2009 - Anaesthetic and Respiratory Equipment - Nebulizing Systems and Components
- ISO 5364:2008 - Anaesthetic and Respiratory Equipment - Oropharyngeal Airways
- ISO 80601-2-30:2009 - Medical Electrical Equipment - Part 2-30: Particular Requirements for Basic Safety and Essential Performance of Automated Non-Invasive Sphygmomanometers
- ISO 81060-2:2009 - Non-Invasive Sphygmomanometers - Part 2: Clinical Validation of Automated Measurements Type

### International Standards Written

- ISO 26825:2008 - Anaesthetic and Respiratory Equipment - User Applied Labels for Syringes Containing Drugs Used During Anesthesia - Colours, Design and Performance

## PUBLICATIONS SUMMARY



Operating Room  
University Hospital



# FACULTY RESEARCH GRANTS/FUNDING

## PEER REVIEWED GRANTS AND FUNDING

1. **Arango M** (Principal Investigator), **Craen RA**  
Comparison of Mannitol 20% vs Hypertonic Saline 7.5% Infusion in the Reduction of Brain Bulk and the Incidence of Hypovolemia and Hypokalemia in Elective Neurosurgical Procedures  
Bristol-Myers Squibb Canada-CAS Research Grant in Neuroanesthesia  
\$20,000 (\$3,333 Year 3)  
2008-2009; Academic Year
2. Duggal N, **Arango M**  
Endotracheal Tube Cuff Pressure Protocol to Reduce Dysphagia Following Anterior Cervical Spine Surgery, Co-Investigator
  - AANS/CNS Apfelbaum Research Award  
\$14,821 (\$5,557 Year 3)  
2008-2009; Academic Year
  - Lawson Health Research Institute, Research Fund  
\$13,821 (\$5,182/Year)  
2008-2009; Academic Year
3. St. Lawrence K, **Arango M**, Bolton M  
Reducing the Risk of Stroke During Aneurysm Surgery by Intra Operative Monitoring of Cerebral Blood Flow, Co-Investigator  
Lawson Health Research Institute  
\$15,000 (\$9,000 Year 2)  
2008-2009; Academic Year



4. **Badner N**  
ENIGMA-II Nitrous Oxide Anesthesia and Cardiac Morbidity After Major Surgery:  
A Randomized Controlled Trial, Collaborator and Site Principal Investigator  
Australian and New Zealand College of Anaesthetists Trial Group (ANZCA TG)  
and the NHMRC Centre for Clinical Research Excellence in Therapeutics  
\$10,000 (site)  
2008 - 2009; Academic Year
5. Patel RV, **Bainbridge D**, Kiaii B, Naish MD, Peters TM, Ross I  
An Optimal Planning Strategy for Robot-Assisted Minimally Invasive Cardiac  
Surgery, Co-Investigator
  - Canadian Institute of Health Research Grant  
\$66,681  
2008 - 2009; Academic Year
  - NSERC Grant  
\$66,682  
2008 - 2009; Academic Year
6. **Cheng D** (Principal Investigator), **Martin J**  
Evidence-Based Perioperative Drug Therapy: Getting Evidence into  
Policy and Practice  
The Academic Medical Organization of Southwestern Ontario (AMOSO)  
Ministry of Health & Long Term Care Innovation Fund  
\$205,000 (\$112,500 Year 1)  
2008 - 2009; Academic Year
7. **Dhir S**  
Success Rate of Infraclavicular Blocks: Comparison of Ultrasound vs.  
Neurostimulation Guided Catheter Placement, Principal Investigator  
Physicians Services Incorporated Foundation  
\$60,000 (\$30,000 Year 1)  
2008 - 2009; Academic Year
8. **Herrick I** (Principal Investigator), **Cheng D**  
Evidence Embedded Clinical Decision Support and Collaboration to Enhance  
Patient Safety and Outcomes  
The Academic Medical Organization of Southwestern Ontario (AMOSO)  
Ministry of Health & Long Term Care Innovation Fund  
\$415,000 (\$227,500 Year 1)  
2008 - 2009; Academic Year

9. **Imasogie NN** (Principal Investigator), **Singh I, Watson J, Morley-Forster PK**  
The Effect of the Combined Use of Naloxone Infusion and Oral Tramacet on Post-Operative Analgesia in Elderly Patients Undergoing Joint Replacement Surgery  
Lawson Health Research Institute, 2009 Spring Lawson IRF Award  
\$15,000  
2008 - 2009; Academic Year
10. **Imasogie NN** (Principal Investigator)  
Pain and Postoperative Cognitive Dysfunction in the Elderly  
The Academic Medical Organization of Southwestern Ontario, AMOSO Opportunities Fund  
\$52,000 (\$22,000 Year 3)  
2008 - 2009; Academic Year
11. Temple C, Ross D, **Imasogie NN**, Brackstone M  
Postoperative Cognitive Dysfunction After Major Reconstructive Surgery, Co-Investigator  
PSI Foundation Grant  
\$16,000  
2008 - 2009; Academic Year
12. **Lavi R** (Principal Investigator), Lavi S  
Sevoflurane Sedation During Primary Percutaneous Coronary Intervention A Randomized Pilot Trial  
The Academic Medical Organization of Southwestern Ontario (AMOSO) Grant for Randomized Pilot Trial  
\$195,000 (\$32,500 Year 1)  
2008 - 2009; Academic Year
13. Swartzman L, Lavinge G, **Morley-Forster P**  
Disentangling the Placebo Effect: The Relative Roles of Pharmacology and Response Expectancies in Pain and Sleep, Co-Investigator and UWO Collaborator  
Canadian Institute of Health Research, New Emerging Team Grant  
\$1,200,000 (\$248,000 Year 6)  
2008 - 2009; Academic Year
14. **Morley-Forster P** (Co-Investigator)  
Pain and Fatigue of Osteoarthritis, Canadian Arthritis Network  
\$1,500,000 (\$150,000 Year 5)  
2008 - 2009; Academic Year

15. **Murkin JM**, Walley KR  
Genetic Determinants of Neurocognitive Dysfunction Following  
Cardiopulmonary Bypass, Principal Investigator  
Heart and Stroke Foundation of Canada  
\$258,592 (\$85,328 Year 1)  
2008 - 2009; Academic Year
16. **Railton C** (Principal Investigator), **Cheng D**  
Anesthesia and Clinical Pharmacology Academic Joint Recruitment Fund  
The Academic Medical Organization of Southwestern Ontario (AMOSO)  
\$120,000 (\$40,000 Year 3)  
2008 - 2009; Academic Year
17. Watling C, Zibrowski E, Kenyon C, Goldzsmidt M, **Schulz V**, **Singh I**, Lingard L  
Engagement in the In-Training Evaluation (ITE) Process: An Exploration of  
Faculty Perspectives, Co-Investigator(s)  
RCPSC 2008 Medical Education Research Grant  
\$13,200  
2008 - 2009; Academic Year
18. Hagan N, **Schulz V**  
A Multidisciplinary Cancer Pain Research Network to Improve the Classification,  
Assessment, and Management of Difficult Cancer Pain Problems  
Co-Investigator  
Canadian Institute of Health Research Grant  
\$1,363,586 (\$227,264 Year 5)  
2008 - 2009; Academic Year
19. Ellis CG, Goldman D, **Sharpe MD**  
Oxygen Supply Dependency: Mechanisms and Modulation, Co-Investigator  
Canadian Institute of Health Research (CIHR)  
\$255,330 (\$63,832 Year 3)  
2008 - 2009; Academic Year
20. **Sharpe MD**, Levstik M, House A, Butler R  
Treatment of Acute or Ahronic Liver Decompensation with Molecular Adsorbent  
Recirculation System (MARS) in Patients Awaiting Liver Transplantation  
Co-Investigator  
Physicians' Services Incorporated Foundation - \$83,000 (\$13,833 Year 3)  
2008 - 2009; Academic Year

## NON-PEER REVIEWED GRANTS AND FUNDING

1. Karkouti K, **Cheng D**  
A Randomized, Double Blind, Placebo-Controlled, Multi-Centre Study to Evaluate the Efficacy of Activated Recombinant Factor VII for Early Control of Memorrhage in High-Risk Cardiac Surgery (USA and Canada), Principal Investigator for Site  
Novo-Nordisk Inc. Grant for Clinical Trials  
\$15,000 (\$3,750 Year 3)  
2008 - 2009; Academic Year
2. Moulin DE, **Morley-Forster PK**, et al  
Multi-Centre Neuropathic Pain Database Study  
Long-Term Outcome of the Pharmacologic Management of Neuropathic Pain  
\$853,088 Over 3 Years, Pfizer Canada (\$284,362 Year 2)  
2008 - 2009; Academic Year
3. **Ralley F**  
ONTraC and Ontario Government  
Funding for Two Nurses  
Chart Review of Utilization of Allogeneic Blood  
Transfusion and Alternatives to Allogeneic Blood Transfusion in High Blood Loss Elective Surgical Procedures for ONTraC Off Site Database  
\$84,000/Year (2005 - 2010)  
2008 - 2009; Academic Year
4. **Sharpe MD** (Principal Investigator), Young GB, Butler R  
Development of an Automated, Bedside EEG Classification System  
GE-Healthcare Technologies  
\$128,560 (\$21,422 Year 3)  
2008 - 2009; Academic Year
5. **Sharpe MD** (Principal Investigator), Sprenger H  
The Use of Oxandrolone, an Anabolic Steroid, to Augment Positive Nitrogen Balance  
Medbuy Corporation Research, Education and Development Fund  
\$7,500 (\$3,750 Year 1)  
2008 - 2009; Academic Year

## INTERNAL GRANTS AND FUNDING

1. **Dhir S**  
Local Anesthetic Dilution for Peripheral Nerve Blocks, Principal Investigator  
Department Grant, Internal Research Fund  
\$5,500  
2008 - 2009; Academic Year
2. **Imasogie NN** (Principal Investigator), **Singh I, Watson J, Morley-Forester PK**  
The Effect of the Combined Use of Naloxone Infusion and Oral Tramacet on  
Post-Operative Analgesia in Elderly Patients Undergoing Joint Replacement  
Surgery  
Department Grant, Internal Research Fund  
\$10,000 (\$3,636 Year 2)  
2008 - 2009; Academic Year
3. **Lavi R** (Principal Investigator), **Bainbridge D**  
Remote Endothelial Preconditioning Before CABG  
Department Grant, Internal Research Fund  
\$10,000  
2008 - 2009; Academic Year
4. **Lavi R** (Principal Investigator), **Lavi S, Bainbridge D**  
Remote Ischemic Preconditioning Before Coronary Artery Bypass Grafting  
Surgery and the Prevalence of Perioperative Atrial Fibrillation  
Academic Development Fund, The University of Western Ontario  
\$8,500  
2008 - 2009; Academic Year
5. **Singh I** (Principal Investigator), **Dhir S**  
Multi-Centred Randomized Controlled Trial Examining the Effect of Small  
Versus Large Tuohy-Type Epidural Needles on the Incidence and Severity of  
Postdural Puncture Headache  
Department Grant, Internal Research Fund  
\$10,000 (\$5,000 Year 2)  
2008 - 2009; Academic Year
6. **Taneja R** (Principal Investigator)  
Focused Bedside Ultrasound Curriculum Development in the ICU  
The University of Western Ontario 2008, Instructional Innovation and  
Development Fund  
\$6,000  
2008 - 2009; Academic Year

7. **Turkstra T**

Comparison of Flex-It Stylet to Malleable Stylet for GlideScope Intubation

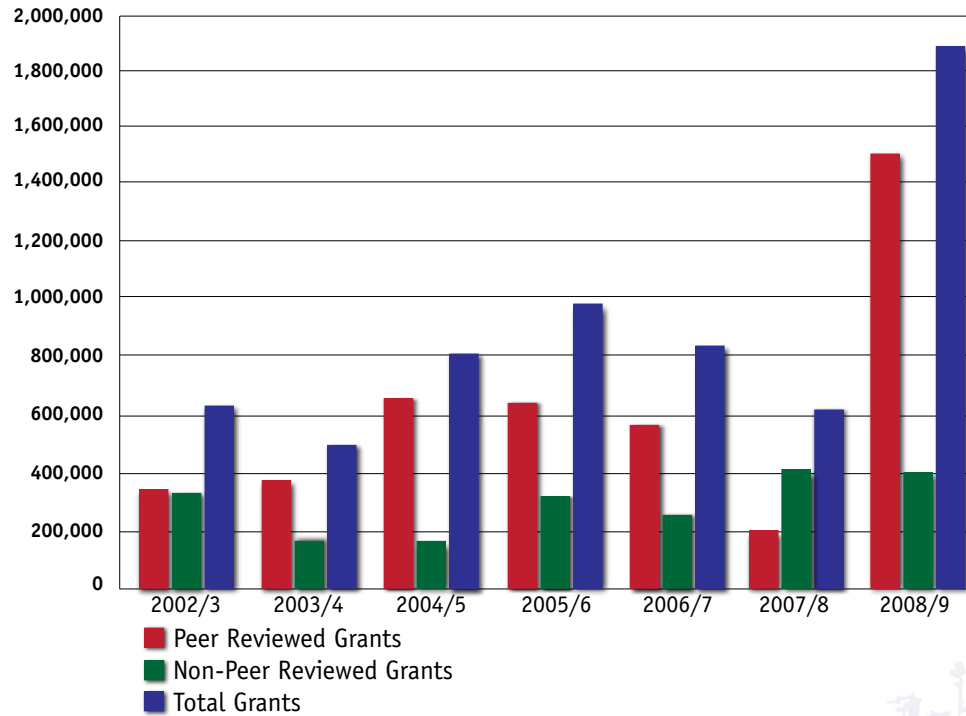
A Randomized Controlled Trial

Department Grant, Internal Research Fund

\$1,500

2008 - 2009; Academic Year

## GRANTS SUMMARY



# CONTACT INFO

## **Chair/Chief Dr. Davy Cheng**

Contact: Judy Butler  
Administrative Assistant  
University Hospital - C3-172  
339 Windermere Rd.  
London, ON  
Canada N6A 5A5  
(519) 663-3031  
(519) 663-3161 (Fax)  
Judy.Butler@lhsc.on.ca

## **Administrative Officer**

Lois Hayter  
University Hospital - C3-172  
339 Windermere Rd.  
London, Ontario  
Canada N6A 5A5  
(519) 663-3270  
(519) 663-3161 (Fax)  
Lois.Hayter@lhsc.on.ca

**Department of Anesthesia and  
Perioperative Medicine**  
[www.anesthesialondon.ca](http://www.anesthesialondon.ca)

**London Health Sciences Centre**  
[www.lhsc.on.ca](http://www.lhsc.on.ca)

**St. Joseph's Health Care, London**  
[www.sjhc.london.on.ca](http://www.sjhc.london.on.ca)

**Schulich School of Medicine  
& Dentistry**  
**The University of Western Ontario**  
[www.schulich.uwo.ca](http://www.schulich.uwo.ca)

**Site Chief**  
St. Joseph's Health Care, London  
Dr. Ian McConachie

Contact: Valerie Rapson  
Administrative Assistant  
St. Joseph's Health Care - A1-609  
268 Grosvenor St.  
London, ON  
Canada N6A 2V2  
(519) 646-6100 x64218  
Valerie.Rapson@sjhc.london.on.ca



**Site Chief**

University Hospital  
Dr. Christopher Harle

Contact: Linda Szabo  
Administrative Assistant  
University Hospital - B3-218  
339 Windermere Rd.  
London, ON  
Canada N6A 5A5  
(519) 685-8500 x33137  
Linda.Szabo@lhsc.on.ca

**Site Chief**

Victoria Hospital  
Dr. George Nicolaou

Contact: Julie Anderson  
Administrative Assistant  
Victoria Hospital - D2-315  
800 Commissioners Rd. E  
London, ON  
Canada N6A 5W9  
(519) 685-8500 x55115  
Julie.Anderson@lhsc.on.ca

**Fellowship Program Director**

Dr. Rosemary Craen

Contact: Jamie Allaer  
Fellowship Administrator  
University Hospital - C3-108  
339 Windermere Rd.  
London, ON  
Canada N6A 5A5  
Phone: (519) 663-3022  
Fax: (519) 663-2957  
Jamie.Allaer@lhsc.on.ca

**Resident Program Director**

Dr. Jeff Granton

Contact: Linda Szabo  
Education Co-ordinator  
University Hospital - B3-218  
339 Windermere Rd.  
London, ON  
Canada N6A 5A5  
(519) 663-3283  
(519) 663-3079 (Fax)  
Linda.Szabo@lhsc.on.ca

