

**Department of  
Anesthesia &  
Perioperative Medicine  
2013/2014**



**Schulich School of Medicine  
& Dentistry  
Western University,  
London, Ontario, Canada**

# ANNUAL REPORT



**Department of Anesthesia & Perioperative Medicine**

Schulich School of Medicine & Dentistry

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# Message from the Department Chair and Chief

Welcome to the Department of Anesthesia & Perioperative Medicine at the Schulich School of Medicine & Dentistry, Western University. Our Department provides clinical service to over 40 operating rooms daily (35,000 surgical procedures per annum) at the London Teaching Hospitals (London Health Sciences Centre – University Hospital and Victoria Hospital, and St Joseph's Health Care London).

We deliver the spectrum of medical care from conducting preoperative anesthesia assessment to performing the most advanced life-supporting techniques in all perioperative settings such as ambulatory surgery, subspecialty surgery, obstetrics, pediatric care, out-of-OR interventional procedures (cardiology, neurology, electric convulsion therapy), acute and chronic pain management, blood conservation management, post-anesthetic care unit, cardiac surgery recovery unit, intensive care units and palliative medicine in acute care.

Our Department is amongst the top five academic anesthesiology departments in Canada and has an international reputation for academic excellence in Research and Education. Our 82 faculty, 47 residents and 14 clinical fellows are committed to patient-centered quality care.

**RESEARCH:** The Cardiac Anesthesia Program continues to be among the leading research programs in the clinical advancement of minimally invasive and robotic cardiac surgery internationally. The Comprehensive Pain Program continues to be a leading multidisciplinary research and clinical program, and has been instrumental in establishing Pain as subspecialty at the Royal College of Physicians and Surgeons of Canada. The Evidence-Based Perioperative Clinical Outcomes Research (EPiCOR) Program and the Centre for Medical Evidence, Decision Integrity, and Clinical Impact (MEDICI) have

established our Department and Western University as an international and national Health Technology Assessment and evidence-based knowledge translation centre, with high impact to health care decision-making and patient care. The Department is also well known for its clinical and research excellence neuroanesthesia, transplantation, critical care, perioperative blood management and pain medicine.

**EDUCATION:** The Department provides clinical training and didactic teaching to undergraduate (UGE) and postgraduate (PGE) trainees in anesthesia and allied health care fields both at Western University and outreach community programs in Southwestern Ontario. The Anesthesia Simulation Program with a national reputation at CSTAR (Canadian Surgical Technologies & Advanced Robotics) led by Anesthesia provides training for UGE, PGE and allied health professionals in critical event management and opportunities for education research in this area. The Women and Children Hospital at LHSC is also the tertiary referral centre for over 6,000 obstetric delivery and pediatric/neonatology care at Southwestern Ontario.

The Department has been attracting clinical/research fellows and visiting scholars from around the world (Australia, New Zealand, UK, USA, Germany, Singapore, Korea, Japan, China, Thailand, Columbia, Egypt and Saudi Arabia) for training in anesthesia and perioperative medicine, as well as critical care medicine.

**LEADERSHIP:** The leadership of our faculty has been recognized nationally and internationally. They have been awarded Canadian Anesthesiologists' Society CAS Gold Medal (Wojciech Dobkowski, Patricia Morley-Forster), CAS Research Recognition Awards (John Murkin, Davy Cheng), CAS Clinical Teacher Award (John Fuller), CAS John Bradley Young Educator Award (Arif Al-Areibi), CAS Research Awards (Daniel Bainbridge, Ronit Lavi, Collin Clarke), YWCA Women of Distinction Award (Su Ganapathy), the Hind Ratten Award (Jewel of India) (Achal Dhir), Western Silcox-Fellow Mentorship Award (Lois Champion, Ivan Iglesias).

Faculty who has been inducted as Honorary Member of the German Society of Anaesthesiology and Intensive





Dr. Davy Cheng in WHO Headquarters, Geneva, Switzerland, 2014

Care Medicine (Davy Cheng), Fellow of the Royal College of Anaesthetists in Ireland (John Murkin), the Canadian Academy of Health Sciences (Davy Cheng), honored with an Outstanding Contribution Award for Chinese Anesthesiology in China (Davy Cheng), and honored with CCPE Credentials (Davy Cheng) by the Canadian Medical Association (CMA) and the Canadian Society of Physician Executives (CSPE).

They have been elected as Board of Trustee in the International Anesthesia Research Society (Davy Cheng), Board of Director in the Society of Cardiovascular Anesthesiologists (Davy Cheng), NIH Protocol Review Committee (John Murkin), Chair of Royal College of Physicians and Surgeons of Canada (RCPSC) Anesthesiology Examination Board (Sandra Katsiris), Past President of the Association of Canadian University Departments of Anesthesia (Davy Cheng), Past OMA Anesthesia Chair (James Watson), OMA Honor of Excellence in Palliative Care (Valerie Schulz), LHIN Regional Critical Care Lead (Michael Sharpe), SJHC London MAC Award (Geoff Bellingham, Bill Sischek) and Joint LHSC/SJHC MAC Award (Davy Cheng).

They have been appointed Chair of the Regional Advisory

Committee of the RCPSC (John Fuller), Member of the Canadian Task Force Addressing Tertiary Pain Clinic Wait time and leading the establishment of Pain Specialty Certification at the RCPSC (Pat Morley-Forster).

They have been invited to pen white papers to the Canadian Parliamentary Committee on Palliative and Compassionate Care (Valerie Schulz) and on Health Technology Assessment in Canada (Janet Martin).

Our faculty (Brian Church) serves in the NATO Role 3 Multinational Medical Unit which was awarded the Dominique-Jean Larrey Award, the highest NATO honor for medical achievements in Afghanistan with its highest survival rate in combat medical operation.

**DAVY CHENG, MD MSC FRCPC FCAHS CCPE**

## Faculty Recruitment

### JAMAL ALHASHEMI

**START DATE: NOVEMBER 2014**

Dr. Alhashemi comes to the Department from Montreal where he was working as an Associate Professor in the Anesthesia Department at McGill University, with clinical affiliation as a Staff Anesthesiologist at Royal Victoria Hospital. Jamal's work includes clinical, teaching, and research endeavors focused on Cardiac Anesthesia and Critical Care. With studies and training completed in Saudi Arabia, Ottawa (University of Ottawa), and here in London (Western), before coming back to Canada, Jamal was a Professor of Anesthesiology and Critical Care Medicine at King Abdulaziz University in Saudi Arabia. Jamal has an extensive research background, with numerous publications in North America and Internationally. We're happy to welcome such an experienced, well-rounded consultant to the team.

### DAVID SOMMERFREUND

**START DATE: SEPTEMBER 2014**

Dr. Sommerfreund comes from a dynamic background including completing his high school days in here in London, a couple years studying Zoology at the University of Guelph, and a degree in Physiotherapy from Queens University - all followed by the completion of his MBBS in Australia. Since the completion of his medical degree, Dr. Sommerfreund has completed an internship at the Prince of Wales Hospital in Australia, his residency here at Western University, and a paediatric anesthesia fellowship in Australia. Even David's employment background is dynamic holding positions as a Physiotherapist in Nova Scotia, Vancouver, as a Liver Transplant Tech in Australia, and even as a Tennis instructor. We're excited to welcome such a positive addition to the Department.

### QUTAIBA TAWFIC

**START DATE: OCTOBER 2014**

Dr. Tawfic comes to the Department with over 8 years of experience in Anesthesia and Intensive Care. Qutaiba completed his formal education across three continents – in Iraq, France, and Canada. Following the completion of an Acute Pain fellowship at The Ottawa Hospital, Dr. Tawfic then came to Western University to complete a complimentary clinical fellowship in Chronic Pain. With experience presenting research at international conferences and numerous publications already in press,

the Department expects Dr. Tawfic to be an essential asset to the team.

### KAMAL KUMAR

**START DATE: JULY 2014**

Dr. Kumar is a young doctor that came to the Department as a fellow initially, interested specifically in obstetric anesthesia. Before making his way to Canada, Kamal was a consultant and assistant professor at Christian Medical College in India; an undergraduate and postgraduate university teaching hospital affiliated with Dr. MGR Medical University. Dr. Kumar has hands-on experience teaching medical students, post graduate students, and paramedical staff (including operating department assistants and nurses) as well as participating in teaching seminars, lectures, journal clubs, and producing several publications. Dr. Kumar's excellence in education was recognized with a gold medal award for Best Outgoing Student for both his Diploma in Anesthesia and in his MD program. Welcome to the team Kamal!

### RAKESH VIJAYASHANKAR

**START DATE: JULY 2014**

Dr. Vijayashankar has been hired as a consultant in the department after completing a clinical fellowship here at Western University. Before coming to the Department, Rakesh completed his education in India, and focused his studies and practical training on pediatric and obstetric regional anesthesia. For such a young doctor, he has numerous publications already (including co-authoring a book chapter), and has presented papers, posters, and lectures at a number of conferences; earning him several awards for these presentations. Rakesh has also been involved in various volunteer activities with India's National Health Programs as well as World Health Organization programs such as malaria control, universal immunizations, and pulse polio programs. We're happy to be able to keep such a talented anesthetist in the Department.

### AHMED HEGAZY

**START DATE: JULY 2014**

Dr. Ahmed Hegazy has been with the Department since he began his residency here in 2009. He followed up the 4 year residency with three consecutive fellowships focusing on Cardiac Anesthesia, Neuroanesthesia, and Adult Critical Care.

Before coming to Canada Ahmed studied, and was a resident in, Anesthesia and Intensive Care at Ain Shams University in Cairo, Egypt. With several publications, poster presentations, oral presentations, and awarded grants already under his belt, Ahmed is a promising young doctor in the Department.

#### **STEPHEN MORRISON**

**START DATE: JULY 2014**

Calgary native Steve Morrison comes from a background in emergency medicine. Dr. Morrison completed his EMT training in both paramedic and ambulatory care at the Southern Alberta Institute of Technology in Calgary, followed by a degree in Kinesiology from the University of Calgary. Steve then went on to obtain his MD from the same University, completing his anesthesia residency here at Western. Steve has worked as both a paramedic and an EMT, and before finishing his schooling worked as a groundskeeper and labourer. Steve has great chemistry with the existing team of anesthesiologists in the Department, and we are happy to welcome him into the Department as he pursues his specialization in Liver Transplant.

#### **RAJU POOLACHERLA**

**START DATE: JANUARY 2014**

Dr. Poolacherla comes to the Department with an already extensive resume in pediatric anesthesia. Raju has completed his formal education in India, and has received anesthesia training in India as well as in several hospitals in the United Kingdom. Before coming to London, Raju was working as a pediatric anesthesia consultant at Frenchay Hospital in Bristol, gaining experience in several facets of administration and management by leading specialty groups, acting as an educational supervisor, and as a linkman for APAGBI. With several publications already in press, many presentations given, and multiple teaching & training activities completed, we expect Raju to be a very productive member of the Department.

#### **JASON CHUI**

**START DATE: DECEMBER 2013**

Dr. Chui joins the Department as a very well educated professional, which is evident in the amount of designate letters that follow his name. Dr. Chui completed two fellowships at the Toronto General Hospital / University of Toronto – one in Cardiac Anesthesia and one in Neuroanesthesia - before coming here to Western in 2013. Jason also has practical experience as an

associate consultant and specialist resident at the Princess Margaret Hospital in Hong Kong. Holding several administrative roles throughout his education as well as producing a number of publications, Jason is well suited to his role in the Department. In his spare time Jason enjoys swimming, hiking, and generally being outdoors.

#### **JONATHAN BORGER**

**START DATE: JULY 2013**

At the University of Winnipeg, Dr. Borger completed a triple major in biology, biochemistry, and physics earned himself a gold medal for highest overall standing in Physics as well as a silver medal for the second highest standing in science overall. After earning his MD designation, Jon went on to do a Family Medicine rotation at the University of Saskatchewan before coming to Western to complete his PGY2-5 in Anesthesia and Perioperative Medicine. Dr. Borger has a Specialist Certificate in Anesthesiology and has also completed a fellowship in Critical Care Medicine at Western. With several teaching ventures and research presentations already under his belt, we are excited to welcome Jon to the team as a consultant.



**Dr. Raju Poolacherla**



## DEPARTMENT ORGANIZATION

### 2013-2014

#### EXECUTIVE

Davy Cheng, Chair/Chief

William Sischek, St. Josephs Health Care London Site Chief, and City-wide Clinical Coordinator

Chris Harle, University Hospital Site Chief

Ramiro Arellano, University Hospital Site Chief, as of July 2014

George Nicolaou, Victoria Hospital Site Chief

Lois Hayter, Manager, Administration of Finance

#### DEPARTMENT COUNCIL

Davy Cheng (Chair)

Christopher Harle, term ended June 2014

Ramiro Arellano, as of July 2014

Ahmad, Mohamad

Arango, Miguel

Al-Areibi, Arif

Armstrong, Kevin

Bainbridge, Daniel

Bellingham, Geoff

Butler, Ron

Cherry, Richard

Dhir, Achal

Gros, Michelle

Herrick, Ian

Katsiris, Sandra

Murkin, John

Nicolaou, George

Sischek, William

#### ACADEMIC AFFAIRS COMMITTEE

Kevin Armstrong (Chair)

Davy Cheng, Dept. Chair

Ramiro Arellano

Fiona Ralley

Collin Clarke

Sandra Katsiris

Ronit Lavi

Geoff Bellingham, term ended March 31 2014

#### UNDERGRADUATE

Michelle Gros, Director

Jonathan Brookes

Pravin Batohi

Lori Dengler

#### POSTGRADUATE

Jeff Granton Program Director, term ended June 2014

Arif Al-Areibi, Associate Program Director, Director as of July 2014

Davy Cheng, Dept. Chair

Linda Szabo, Education

Coordinator

Sean Loughheed, Chief Resident

Rosemary Craen, Site Coordinator University Hospital

Pod Armstrong, Site

Coordinator St. Joseph's Hospital

Kevin Teague, Site Coordinator Victoria Hospital

Indu Singh, Resident Research Coordinator

Richard Cherry, Simulation and Information Technology Director

Nicole Campbell, Community (St. Thomas) and SWOMEN

Ed Roberts, Community (Windsor) and SWOMEN

Colin Phillips, Resident Representative

Nicole Quigley, Resident Representative

#### CONTINUING MEDICAL EDUCATION

Ian Herrick, (Chair)

Erin Cecchini

#### FELLOWSHIP

Miguel Arango, Program Director

Andrea Fragassi, Program Coordinator

Achal Dhir, Liver Transplant

George Nicolaou, Thoracic and Vascular

Indu Singh Obstetric

Pat Morley-Forster, Pain Management

Ramiro Arellano, Cardiac

Richard Cherry, Simulation

Su Ganapathy, Regional

#### CARDIAC SURGERY RECOVERY (CSRU)

Ron Butler (Director)

Daniel Bainbridge

Davy Cheng

Jeff Granton

Philip Jones

#### RESEARCH COMMITTEE

John Murkin, (Chair)

Daniel Bainbridge

Davy Cheng, Dept. Chair

Richard Cherry

Collin Clarke

Philip Jones

Craig Railton

Indu Singh

Timothy Turkstra

Erin Cecchini

#### AAPP FINANCE MANAGEMENT COMMITTEE

William Sischek (Chair)

Chris Harle

Davy Cheng, Dept. Chair

Ian McConachie

Lois Hayter

Sandra Silverthorn

Jason Hoogstra

Marc St-Amand

Ron Butler

George Nicolaou



**ANESTHESIA QUALITY ASSURANCE, CITY-WIDE**

Ian Herrick, Director  
 Geoff Bellingham (SJHC)  
 Indu Singh (SJHC)  
 Michelle Gros (VH)  
 Christopher Harle (Site Chief Rep.)  
 Ronit Lavi (UH)  
 Craig Railton (VH)  
 Rebecca Ashcroft (Anesthesia Resident)  
 Anne Marie McIlmoyle (Director, Perioperative Services, SJHC)  
 Silvie Crawford (VP, Patient Centred Care, LHSC)

**SITE ROUNDS COORDINATORS**

Achal Dhir (UH)  
 Gary Simon (VH)  
 Paidrig Armstrong (SJHC)  
 Shalini Dhir (Regional)

**EQUIPMENT**

Jason Hoogstra

**JOURNAL CLUB CONVENERS**

Philip Jones  
 Timothy Turkstra

**ADMINISTRATIVE SUPPORT STAFF**

Jamie Allaer  
 Ola Bienkowski  
 Kathy Bilton  
 Erin Cecchini  
 Andrea Fragassi  
 Linda Gibson  
 Kim Harrison  
 Lynn Hinchcliffe  
 Brie McConnell  
 Shannon McConnell  
 Jessica Moodie  
 Cathy Pollard  
 Val Rapson  
 Amanda Schwindt

Linda Szabo  
 Marilyn Twiddy  
 Christina White  
 Cathy Worsfold



Undergraduate Students at Anesthesia Bootcamp, 2014

# Clinical Leadership

## Dr. Bill Sischek, City-wide Clinical Coordinator

The Department of Anesthesia and Perioperative Medicine has had a very busy 2013-14. The focus on the academic aspects of the department this past year have allowed us to proceed with deliberate, strategic recruitment into a number subspecialty faculty positions in Pediatrics, Acute and Chronic Pain, Neuro, Obstetric and Transplant Anesthesia for a total of 10 new faculty recruitments since July of 2013. The multi-sited aspects of the practice in our city allow individuals to bring their subspecialty interests and skills to bear in varied clinical areas with excellent patient care being the outcome. We are delighted by the addition of the many new consultant staff this year and continue to actively recruit new faculty to join our vibrant department.

As we grow, we must also bid farewell to colleagues. Drs. Michael Currin and Trevor Lobb both retired in May 2014 following rich, productive careers in the clinical and academic sectors of the department. We wished them both well in the years to come at a celebratory department reception in early June, attended by many well wishers.

Our current very positive challenge is that despite the growth in our faculty overall we continue to strive to meet the many diverse demands for our clinical services across our city. The old adage "Success begets success" certainly seems to be holding true as we continue to be approached for an ever increasing variety of service provision for sedation, analgesia and anesthesia. We are regularly scheduled in multiple "out-of-OR" settings in our four hospital sites for these services- endoscopy, pediatric and adult imaging, therapeutic services in chronic pain, dental clinics, acute pain services... and the list goes on. While we anticipate the outcome of the government of Ontario initiatives on Independent Health Facilities and have explored cooperative initiatives in that realm and to date have not made plans to move in that direction, no doubt they will form part of our workload. The future looks busy!

This past summer has seen a change in the composition of the Department Executive with the turnover in site chief position at University Hospital, allowing us to thank Dr. Chris Harle for over six years of dedicated service with us and bringing Dr. Ramiro Arellano to the group. Dr. Arellano has a diverse background, having worked in several Canadian academic centres before joining our department in 2012 and we are looking forward to his contributions to the leadership, particularly at the University Hospital site. He has already begun several new efforts to address operational issues at the site and we anticipate positive results in some quarters early on.

As we look forward to 2014-15, there are many exciting changes on the horizon. A new dental operating suite opening in the Schulich School of Medicine and Dentistry is anticipated and the move of the Regional Mental Health Centre from its current Highbury Avenue site to the new Parkwood site on Commissioners Road in November are only two. The negotiation process for a "fleet overhaul" of anesthesia delivery units (gas machines) will bring us two new units during the next several months, laying the foundation for the wholesale update of our equipment across the city. We are in active negotiation with several new recruits, anticipating their arrival over the next twelve months. The promise of ever improving prospects for our university department continues.



# Clinical Sites:

## Reports from the Site Chiefs

Victoria Hospital, London Health Sciences Centre (LHSC), University Hospital LHSC, and St. Joseph's Health Care London



**Dr. Ramiro Arellano, University Hospital Site Chief**

### UNIVERSITY HOSPITAL, LHSC

#### **Dr. Ramiro Arellano, Site Chief**

University Hospital is a major quaternary referral center and teaching facility within the University of Western Ontario. Consultants provide anesthesia for cardiac surgery, neurosurgery, general surgery, orthopedic surgery, sports medicine, plastic surgery, urological surgery and ear nose and throat surgery. University Hospital is a regional transplantation center and the Department of Anesthesia and Perioperative Medicine provides services for cardiac transplantation, liver transplantation and kidney and pancreas transplantation. In addition, we also provide anesthetic support for procedures in the interventional radiology, the cardiac catheter and the electrophysiology suites. Departmental members also provide clinical services in the medical / surgical critical care units and the cardiac surgery recovery unit. We also provide ongoing support for a busy pre-admission clinic. There is ongoing work to enhance the regional anesthesia program and acute pain service. We have a dedicated perioperative Trans Esophageal Echocardiography Service.

We train Residents and Fellows in Cardiac Anesthesia, Perioperative Trans Esophageal Echocardiography, Neuro-Anesthesia, Acute Pain Management, Regional Anesthesia, Airway Management and Liver Transplantation. We also train residents at all levels of training in general anesthesia both from within our own residency program and from other disciplines.

Anesthesia at the University Hospital is practiced using the Anesthesia Care Team model with the support from Anesthesia Assistant colleagues in the Operating Rooms, the Block Room and in our Out-of-Operating Room anesthesia. Administrative assistants supporting the Departmental Chair, fellowship program, residency program, undergraduate education, and clinical program are situated at University Hospital. In addition, research assistance is provided by an on-site Departmental librarian and research assistant.

The University Hospital site is the base for many ongoing research projects in cardiac anesthesia, neuro-anesthesia, transplant anesthesia and regional/acute pain management.



## ST. JOSEPH'S HEALTH CARE LONDON

### Dr. William Sischek, Site Chief

The St. Joseph's Health Care (SJHC) site of the Department of Anesthesia and Perioperative Medicine is in evolution. With the transfer of most of its inpatient care in 2011 SJHC reached a threshold in its growth and development as an ambulatory care centre for London. Accordingly our department moved in concert with it and today's services reflect that change.

The staffing plan of our department has been to provide reliable, high caliber anesthetic services to St. Joseph's by having our city wide consultant faculty provide care to patients there. This brings the expertise of the wide variety of Anesthesia subspecialists present in London to the domain of the centre. In concert with those subspecialists, the staffing of the Chronic Pain, Regional and new Pain program complement the coverage of the ambulatory surgery centre, the endoscopy clinic, the cataract suite and pre-admit clinic. This year has seen growth of the initial of out-of-OR urological procedure clinic coverage started last year. The enhanced patient comfort, safety and satisfaction as well as surgical clinic staff support has helped make this new endeavor a great success. While being approached incrementally, the trend will be to increase our efforts in the lower intensity, lower cost areas of the centre to address system demands for high quality, lower cost care for the patients we serve.

In addition, we are participating in the MOHLTC initiatives for quality based funding care, looking to optimize our impact on patient care in important areas such as our Cataract Suite and Endoscopy Unit. The participation of the Anesthesia Care Teams in those units is contributing to the improved patient safety and quality of care and we are striving to improve efficiencies to meet that part of the matrix of care.

The previously mentioned new Pain program, headed by Dr. Geoff Bellingham, came into full swing July 1, 2014 with the entrance of its first two trainees. The Royal College of Physician and Surgeons of Canada certified program is based out of SJHC and is one of the first in the country. It will be training physicians from a variety of base training backgrounds to care for the growing number of patients presenting for chronic pain care in our communities. St. Joseph's, already home to the Department's Chronic Pain clinical program, was a natural fit when the new program required a home site. We look with great anticipation to the Pain program to also complement the Department's Comprehensive Pain Management Program (CPMP). The

CPMP combines the expertise of the Chronic Pain, Acute Pain, Regional and Palliative programs in collaboration to attempt to provide the patients of London and region the best care possible with respect to pain management.

As said before, we see St. Joseph's Health Care evolving and growing with the mandate it was given many years ago when its course was set as an ambulatory care centre and we remain supportive and engaged with its growth going forward.

## VICTORIA HOSPITAL, LHSC

### Dr. George Nicolaou, Site Chief

The Department of Anesthesia and Perioperative Medicine at the Victoria Hospital, provides clinical service for vascular, thoracic, orthopaedic (trauma and spine), plastic (including craniofacial), ENT, urologic, oncologic, general surgical, robotic and pediatric (ENT, general, thoracic, urologic, neurosurgical and plastic) surgery. We also have a well-established palliative, acute and chronic pain service. In addition, we provide anesthetic services for 'out-of-OR' procedures such as endoscopy/ colonoscopy, MRIs, CT scans, interventional radiology, diagnostic/therapeutic lumbar punctures, bone marrow aspirates, kidney biopsies, bronchoscopies and any other 'out-of-OR' procedures that might require sedation. Victoria Hospital also provides anesthesia services for all obstetrical patients in the city of London. The site's emphasis is the clinical teaching of residents, medical students, fellows and allied health professionals. This includes the use of a well-established anesthesia simulator program.

**The Operating Suites at Victoria Hospital are undergoing major renovations and reconstruction. When completed there will be eighteen state of the art Operating Suites equipped with the latest anesthesia and surgical technological advances.**





## ANESTHESIA OFFICE RESOURCES

The Anesthesia office space continues to be modernized with updated computer equipment, an up to date medical library, and a formal classroom/team room that utilizes 'smart-board' technology.

## ANESTHESIA OPERATING ROOM RESOURCES

Anesthesia resources include a transesophageal echocardiography machine with 3-D capabilities, a transthoracic echocardiography machine, multiple ultrasound machines for vascular access and for regional anesthesia and state of the art airway equipment.

## THORACIC/VASCULAR ANESTHESIA

Both thoracic and vascular subspecialties have flourished and remain popular as resident rotations and as fellowship training programs. Vascular surgery at Victoria Hospital has become a world leader in the endovascular management of thoracic aortic disease. Thoracic surgery has also become a world leader and boasts one of the largest series in Video Assisted Thoracic Surgical procedures. 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. With respect to vascular anesthesia, our preliminary results have shown that spinal oximetry detects decreases in spinal cord blood flow early, allowing for the early initiation of preventive treatment spinal cord protection strategies. A previous project led to a change in the postoperative epidural analgesia solution utilized.

## PEDIATRIC ANESTHESIA

This pediatric division is under the guidance of Program Director, Dr. Mohamad Ahmad, with input from members of the Pediatric Anesthesia Subspecialty Group. We currently support three dedicated pediatric surgery operating rooms on a daily basis. In addition, we are increasing our involvement in 'out-of-OR' settings which include endoscopy/colonoscopy, MRIs, CT scans, interventional radiology, diagnostic/therapeutic lumbar punctures, bone marrow aspirates and any other procedure that is amenable to sedation.

**We have also implemented a 'Parental Presence at Induction' Program in conjunction with the hospital's 'Child Life Program' and have expanded pediatric preoperative assessment and postoperative pain management services.**

Pain management on the ward in pediatric patients with epidurals is both offered and supported. We are also in the process of developing the first pediatric, multi-disciplinary chronic pain program in South Western Ontario. Interested staff continue to participate in the nationwide telemedicine conferences hosted by the Hospital for Sick Children, Toronto, ON.

## 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, PCEA and postoperative pain management. With the consolidation of all obstetrical services at Victoria Hospital in London, the volume of births in this level 3 unit has increased to over 6,000 deliveries per year. This makes Victoria Hospital the second busiest obstetrical unit in the province.

#### SIMULATION

The Simulation Program continues to thrive and expand under the guidance of Dr. Richard Cherry. The program continues to deliver simulation-based crisis management training to anesthesia and critical care residents, as well as expanding the program to include more undergraduate medical students and surgical residents. Research collaboration is gaining momentum along with the general awareness and interest in healthcare simulation.

#### ANESTHESIA ASSISTANT PROGRAM

Our Anesthesia Assistant program has been a great success and has been well received by all disciplines. It has allowed us to increase our 'out-of-OR' commitments for all procedures that require sedation. This has led to an increase in patient safety and satisfaction, more efficient

use of resources allowing for an increased utilization of our services. The Anesthesia Assistant program has been beneficial for all, is well supported and continues to expand.

#### ACUTE AND CHRONIC PAIN

Our multi-disciplinary pain program is well established and continues to expand.

We have recruited two new nurse practitioners to help with all aspects of pain including research and opioid addiction.

A pain database has been developed for recording patient data, which is used for quality assurance and research purposes. Our interventional pain management program is well established and has expanded to include pediatric patients.



Dr. William Sischek, City-wide Clinical Coordinator, and SJHC Site Chief



Dr. George Nicolaou, Victoria Hospital LHSC Site Chief

# Quality Assurance

**Dr. Ian Herrick, Director**

**Ms. Erin Cecchini, Manager**

The Department of Anesthesia and Perioperative Medicine has a tradition of high quality care. Complementing the key role of the individual practitioner in the provision of quality care, the Department has a quality assurance program and Quality Committee with the following mandate:

- Assist Chief/Chair and Site Chiefs with monitoring and promoting high quality anesthesia care.
- Selectively monitor and/or respond to opportunities to enhance the quality and safety of care.
- Provide a forum for the post hoc systematic review of critical incidents and events impacting of anesthesia care.
- Support education by encouraging the engagement of department members and trainees in projects to assess and enhance quality care.
- Support research activities aligned with the objectives of the departmental QA framework and relevant to the quality or safety of anesthesia care.

The Committee met quarterly. Mr. Rob Mayer, research assistant, provided support for some audit activity.

## HIGHLIGHTS FOR 2013-14

### CLINICAL SURVEILLANCE

The Quality Committee undertook an extensive review of the quality assurance program since its formal inception in 2009. The current quality framework has focused on establishing departmental QA surveillance indicators and audit activity (including mortality, chart quality, random screening) and has undertaken several clinical projects (e.g., perioperative temperature management, consultation quality and central line infections) as well as a departmental policy review (perioperative management of obstructive sleep apnea).

Building on the existing framework, the Committee identified several areas for strategic focus for the next 3-5 years:

1. Quality Assurance Infrastructure Development - refining audit/surveillance panel structure, process, and outcomes and exploring options for expansion to clinical divisions.
2. Education - expanding postgraduate trainee engagement and developing resident/fellow audit activity/skills.
3. Further Engage SJHC – explore the development of an Anesthesia surveillance/audit program for the ambulatory perioperative setting.
4. Future Needs – evaluate QA data needs and opportunities as the London Hospitals progress with the implementation of the electronic health record.

### RESEARCH

The Committee, through the OSA working group, presented the results of its review and recommendations related to perioperative care for patients with sleep apnea at a department staff meeting in January 2014.

### EDUCATION

## Resident Core Lectures

**Quality Assurance – Anesthesia. Quality Assurance Update presented as resident half-day lecture, June 9, 2014. Drs. Magda Terlecki and Ian Herrick**



## International Conference

**Standards of Quality in Anesthesia. Dr Ian Herrick. 1st LatinAmerican Congress for Neuroanesthesia, November 6-8, 2014. Medellin, Columbia.**






# Clinical Statistics



 Adult Day/InPatient	LHSC University Hospital	LHSC Victoria Hospital	 and Pediatric Day/InPatient
General Surgery	1,756	3,095	
Cardiac	1,454	03	
Dental	167	528	
Neurologic	1,216	152	
Obstetric and Gynecologic	0	3,150	
Ophthalmologic	0	290	
Orthopedic	4,091	2,814	
Otolaryngologic	393	1,577	
Plastic	455	789	
Thoracic and Vascular	05	1,792	
Urologic	449	899	
Total Surgical Procedures Requiring Anesthesia/Analgesia	<b>9,986</b>	<b>15,089</b>	
Grand Total for 2013/14 Academic Year	<b>25,075</b>		





 Adult & Pediatric Day/InPatient 	
General Surgery	896
Dental	166
Litho	12
Obstetric and Gynecologic	695
Ophthalmologic (OR)  Cataract Suite	484 4,041
Orthopedic	1,394
Otolaryngologic	730
Plastic	489
Urologic	1,354

Total Surgical Procedures Requiring  
Anesthesia/Analgesia for 2013/14

**10,261**

# Education Programs

**Undergraduate, Postgraduate (Residency, and Pain Medicine Residency Programs, Continuing Medical Education, and Fellowship**

## UNDERGRADUATE EDUCATION

**Dr. Michelle Gros, Director**

Anesthesia is a mandatory 2 week core rotation that all third year medical students complete as part of their surgery block at Western. Six students are on Anesthesia at any one time throughout the city. In the past, two students would each be assigned to one of the three teaching hospitals in London. This past year, we have increased flexibility, so that clerks spend time at more than one hospital. This allows for better exposure to the wide variety of anesthetics delivered at these sites.

Clerks spend each day of their rotation assigned to a staff supervisor, providing for exceptional one-on-one teaching. As a result of learner feedback, this past year we have added an additional assignment to the rotation. Each clerk spends one day of their rotation in the cataract suite, where they are paired with a staff anesthesiologist for the day to develop IV insertion skills. This has been very well received.

An updated medical student handbook was purchased for our department last year. Each medical student rotating through is given this book and encouraged to read it during their rotation. We are also continuing to add useful learning tools and links to our website for the students to use. We are working to expand this website over the next year.

Another welcome addition to the Anesthesia rotation is Anesthesia Bootcamp in the CSTAR Simulation Centre. Each group of students spends one day of their two week rotation in the simulator with a simulation fellow, and/or staff anesthetist. They are introduced to some basic skills and aspects of our specialty, so that when they come to the operating room, they feel more comfortable. Presentations include preoperative assessments, the anesthesia machine and monitoring, airway management, and drug administration. They then have the opportunity to run through some case-based scenarios. The students are very enthusiastic about this highly-rated opportunity, and state that it has eased their transition into the operating room.



Dr. Michelle Gros

We also have a significant number of Western and visiting elective students from Canada and abroad that rotate through the Anesthesia program. As a result of student feedback, during the current academic year we will be attempting to enhance their experience by providing more consistency through consultant pairing. They will also be given the opportunity to meet with the program director to discuss the program at Western during their rotation.

For the 2013-2014 academic year, we had 127 clerks, 52 elective students, and 25 observers rotate through our program in London.

We have welcomed Lori Dengler this past year to our department, in the role of Undergraduate Education Coordinator. She has become a great resource for the students rotating through Anesthesia.

## 2013-14 UGE Committee

**Dr. Michelle Gros, Chair**

**Lori Dengler**

**Dr. Jonathan Brookes**

**Dr. Pravin Batohi**

Dr. Jeff Granton's term as PGE Program Director concluded in 2014. The Department would like to both commend and thank Dr. Granton for his tremendous efforts ....

## POSTGRADUATE MEDICAL EDUCATION

**Dr. Jeff Granton, Director**

**Dr. Arif Al-Areibi, Director as of July 2014**

The past academic year has been another successful one for the Anesthesia Residency Training at the Schulich School of Medicine and Dentistry. Our program in 2013-14 included forty six residents in the Royal College of Physicians and Surgeons program and one resident in the Family Medicine/Anesthesia Enhanced Skills Program. We are also very proud to continue the training of Physician Assistants from the Canadian Forces.

The clinical services at London Health Sciences Centre and St. Joseph's Health Care span the spectrum of primary to tertiary surgical and medical care.

This gives our anesthesia trainees the opportunity participate in a wide array of operative and non-operative patient care encounters that are required to become a well rounded anesthesiologist. Specialty rotations offered to residents include:

ACUTE PAIN MANAGEMENT	AIRWAY ANESTHESIA
CARDIAC ANESTHESIA AND POSTOPERATIVE CARE	CHRONIC PAIN MANAGEMENT
CRITICAL CARE	NEUROANESTHESIA
OBSTETRICAL ANESTHESIA	PALLIATIVE MEDICINE
PEDIATRIC ANESTHESIA	PERIOPERATIVE MEDICINE
REGIONAL ANESTHESIA	THORACIC ANESTHESIA
TRANSPLANT MEDICINE	VASCULAR ANESTHESIA

Simulation and training in Crisis Resource Management continues to be a strength of the Anesthesia Training Program at Schulich. Residents routinely undertake full days of simulation based training, allowing them to get exposure to situations and themes that, once practiced in the simulator, will allow them to better approach these

challenges in a clinical setting. In the end this will enhance their education and patient safety. The purchase of a new, state of the art, simulator has only served to strengthen the program further.

Research and having residents learn how to perform and evaluate research is increasing in its importance, both at the Schulich School of Medicine and Dentistry and also nationally. This past year was another successful year for our residents in research.

A special thanks to all the members of the Anesthesia PGE Committee (noted below) for their dedication to improving the training of our Anesthesia Residents. An extra special thank you to Linda Szabo, for her tireless work as the program's administrator.

At the conclusion of this academic year Drs. Craen and Singh have stepped down from the PGE Committee. They have provided outstanding leadership and vision to the committee and department over the years. Welcome to Peter Mack and Ronit Lavi, as the UH Resident Coordinator and Resident Research Coordinator

Dr. Arif Al-Areibi will be taking over as Program Director as of the 2014/15 academic year. I am confident Arif will do an outstanding job and guide the residency program through the changes ahead, as nationally we move towards a competency based curriculum. A personal thanks to all the staff, faculty and residents for their dedication and support during my six years as Program Director

### 2013-14 PGE COMMITTEE

Jeff Granton – Program Director

Davy Cheng – Chair of Department of Anesthesia and Perioperative Medicine

Arif Al-Areibi – Associate Program Director

Sean Loughheed – Chief Resident

Rosemary Craen – Site Coordinator University Hospital

Pod Armstrong – Site Coordinator St. Josephs Hospital

Kevin Teague – Site Coordinator Victoria Hospital

Indu Singh – Resident Research Coordinator

Richard Cherry – Simulation and Information Technology Director

Nicole Campbell – Community (St. Thomas) and SWOMEN

Ed Roberts – Community (Windsor) and SWOMEN

Colin Phillips – Resident Representative

Nicole Quigley – Resident Representative

Linda Szabo - Administrator

### RESIDENT RESEARCH

#### DR. RONIT LAVI

The McMaster-Western Resident Research Day was held on Friday, May 30th, and hosted by Western's Department of Anesthesia and Perioperative Medicine at St. Joseph's Health Care London. The day's schedule was full of fantastic presentations from McMaster and Western Anesthesia Residents, all of whom have our commendation for their innovative research! Needless to say, the research presented prompted some excellent discussion and direction for future initiatives.

Dr. Philip Jones, Associate Professor with the Department of Anesthesia and Perioperative Medicine, Western, delivered the guest lecture, "Openness" in Research.

This engaging lecture elicited a lively discussion, which complimented the overall learning objectives of the day. The McMaster and Western Anesthesia Residency Programs would like to extend their sincere gratitude to Dr. Jones for his presentation!

In addition, thank-you to the Judges, Dr. Philip Jones (Western), Dr. James Paul (McMaster), and Dr. Tim Turkstra (Western), and to Dr. Rosemary Craen, who moderated the discussions and presentations. Furthermore, many thanks to Dr. Indu Singh (Western Anesthesia's Resident Research Coordinator), Dr. Jeff Granton (Western Anesthesia Residency Program Director), and Ms. Linda Szabo (Western Anesthesia's Residency Program Coordinator), for making this day possible!

## Awards

The judges had their work cut out for them as there were many excellent presentations, but at the end of the day, three presentations were identified for excellence.

First place was awarded to Ada Hindle, Suzanne Lambert (PGY4), and Susan Jo (PGY4) of McMaster University. – "Intrathecal Morphine for Spine Surgery"

In second place, Elaheh Adly and Padmali Jayatilaka of McMaster University – "Chronic Pain Following TKR and the Impact of Gabapentin"

Third place was awarded to Amanda Jasudavicius (PGY3) of Western University – "A Systematic Review of TTE and TEE in Non-Cardiac Surgery."



## PAIN MEDICINE RESIDENCY PROGRAM

### DR. GEOFF BELLINGHAM, DIRECTOR

Pain Medicine was recognized by the Royal College of Physicians and Surgeons of Canada as a designated subspecialty in March 2014 and, with the first program of its kind in Canada, Schulich Anesthesia & Perioperative Medicine enrolled its first two Pain Medicine Residents in July of 2014. The twenty-six block, two-year program will train candidates to be experts in the prevention, evaluation, diagnosis, treatment, and rehabilitation of painful conditions across the spectrum of acute pain, cancer pain and chronic non-cancer pain.

During the program, residents will also be exposed to unique experiences surrounding the treatment of chronic pain in the community such as ODSP advocacy and Opioid Dependence.

**Visit us online for the complete Pain Medicine Residency Handbook:**

<https://www.schulich.uwo.ca/anesthesia/education/>

There is a mandatory core of 13 blocks in the St. Joseph's multidisciplinary pain clinic.

There are 7 blocks of mandatory rotations :

Acute Pain Service (1)

Addiction Medicine (1)

Cancer pain (1)

Neurology (1)

Outpatient Psychiatry (2)

Pediatric pain (1)

Psychiatry / Rheumatology (1)



Windsor University's Medical Education Building

## CONTINUING MEDICAL EDUCATION

**DR. IAN HERRICK, DIRECTOR**

**ERIN CECCHINI, MANAGER**



Dr. Ava Jean-Baptiste, Dr. Meena Cherian (WHO), Dr. Davy Cheng, Jessica Moodie, and Dr. Janet Martin

Under the auspices of the Continuing Professional Development Office at the Schulich School of Medicine and Dentistry, the Department of Anesthesia and Perioperative Medicine Continuing Medical Education Program supports a variety of high quality continuing education events aimed at practicing anesthesiologists and affiliated health care professionals.

Current activities include departmental rounds (held as monthly city-wide forums across London hospitals); weekly site rounds (held at each hospital site and designed to address issues and topics of local interest) and subspecialty rounds and seminars (organized to meet the educational needs of subspecialty groups e.g., cardiac anesthesia, neuroanesthesia, obstetrical anesthesia, etc).

In addition, the CME Program hosts several lectureships and accredits local, national or international conferences and workshops supported by the Department and organized by its members. In 2013/2014, the Department was pleased to host a number of distinguished guests including:

- Dr. Donald Miller, Editor-in-Chief – Canadian Journal of Anesthesia; Professor and Interim Chair of Anesthesia, University of Ottawa; Interim Head of

Anesthesiology, The Ottawa Hospital

- Dr. Beverly Orser, Professor, Anesthesia and Physiology, University of Toronto; Staff Anesthetist, Director of Research, Department of Anesthesia, Sunnybrook Health Sciences Centre
- **Dr. Meena Nathan Cherian, Emergency & Essential Surgical Care (EESC) program; Service Delivery and Safety Department (SDS), Health Systems & Innovation, World Health Organization**
- Dr. Catherine Smyth, Pain Medicine Residency Program Director, University of Ottawa; Staff Anesthesiologist, The Ottawa Hospital
- Dr. Jeanne Teitelbaum, Associate Professor of Neurology, McGill University; Neurologist and Neuro-Intensivist, Montreal Neurological Institute and MUHC
- Dr. Eric Jacobsohn, Professor and Head, Department of Anesthesia; Professor of Internal Medicine, University of Manitoba
- Dr. Manoj Karmakar, Professor, Director of Paediatric Anesthesia, The Chinese University of Hong Kong; Secretary General of the Asian Oceanic Society of Regional Anaesthesia
- Dr. David Mazer, Vice Chair, Research, Department of Anesthesia, University of Toronto; Anesthesiologist, St. Michael's Hospital, Toronto
- Dr. Robin McLeod, Division of General Surgery, University of Toronto
- Dr. Stuart McCluskey, Department of Anesthesia and Pain Management, University of Toronto

Several projects have been undertaken by the CME work group in 2013/14, including the development and implementation of an online CME event evaluation and attendance form for City-Wide and Site Specific rounds; as well as the continued coordination and refinement of a videoconferencing platform that enables the broadcast of rounds events to remote locations across the city.

# CME Activities and Events, the year in review

## CITY-WIDE ROUNDS – 2013/2014

### September 4, 2013

Speaker: Dr. Philip Jones,  
Anesthesia & Perioperative  
Medicine

Title: Reproducible  
Research and Open Data

### November 6, 2013

Speaker: Dr. Catherine  
Smyth, Pain Medicine  
Residency Program  
Director, University  
of Ottawa; Staff  
Anesthesiologist, The  
Ottawa Hospital

Title: The Use of Neuraxial  
Analgesia in Complex  
Cancer Pain Management

### November 27, 2013

Speaker: Dr. Daniel  
Bainbridge, Anesthesia &  
Perioperative Medicine

Title: Death in the  
OR: A Brief Review of  
Perioperative Mortality

### February 5, 2014

Speaker: Dr. Michael  
Sharpe, Anesthesia &  
Perioperative Medicine

Title: Donation after  
Cardiac Death (DCD):  
Impact on Donor and  
Transplant Activity

### March 19, 2014

Speaker: Dr. David Mazer,  
Vice Chair, Research,  
Department of Anesthesia,  
University of Toronto;  
Anesthesiologist, St.  
Michael's Hospital, Toronto

Title: Transfusion Triggers  
in Cardiac Surgery

### March 26, 2014

Speaker: Mr. Andrew  
Nemirovsky, Physician  
Information Specialist –  
HUGO

Dr. Bobbi-Jo Morrell, Dr.  
Kevin Armstrong, & Dr.  
Ian Herrick, Anesthesia &  
Perioperative Medicine

Title: HUGO Order Set  
Update for Anesthesia

### May 7, 2014

Speaker: Dr. Bobbi-  
Jo Morrell, Dr. Kevin  
Armstrong, & Dr. Ian  
Herrick, Anesthesia &  
Perioperative Medicine

Title: HUGO Revisited

### June 24 & 25, 2014

Speaker: Dr. Manoj  
Karmakar, Professor,  
Director of Paediatric  
Anesthesia, The Chinese  
University of Hong Kong;  
Secretary General of the  
Asian Oceanic Society of  
Regional Anaesthesia

Title 1: Ultrasound Guided  
Regional Anaesthesia  
Beyond the Horizon

Title 2: Ultrasound Imaging  
of the Airway

Title 3: Spinal Sonography  
and Ultrasound Guided  
Central Neuraxial Blocks

### September 3, 2014

Speaker: Dr. Colin Phillips,  
Dr. Philip Jones, and  
Dr. Ramiro Arellano,  
Anesthesia & Perioperative  
Medicine

Title: Reviewing London's  
Perioperative NPO  
Guidelines

### October 1, 2014

Speaker: Dr. Eric  
Jacobsohn, Professor  
and Head, Department  
of Anesthesia;  
Professor of Internal  
Medicine, University of  
Manitoba

Title: Behaviour and  
a Culture of Safety in  
the OR: A Canadian  
Perspective

### November 26, 2014

Speaker: Dr. Ian  
McConachie, Anesthesia &  
Perioperative Medicine

Title: Fit for Surgery?  
Perioperative Optimization:  
Historical Perspectives and  
Future Possibilities

## PERIOPERATIVE ROUNDS 2013/2014

### September 11, 2013

Speakers: Dr. Robin McLeod, Division of General Surgery, University of Toronto

Dr. Stuart McCluskey, Department of Anesthesia and Pain Management, University of Toronto

Title: iERAS Combined Rounds

### September 18, 2013

Speaker: Dr. Guy DeRose, Surgery

Dr. Chris Harle, Anesthesia & Perioperative Medicine

Edward McGowan, OR Coordinator, London Health Sciences Centre

Anne Marie McIlmoyl, Director, Perioperative Services, St. Joseph's Health Care London

Tracy Rau, RN, OR Charge Nurse Orthopedic Sports Medicine

Title: Surgical Safety Checklist: How Can We Make It Safety

### January 15, 2014

Speaker: Dr. Alejandro Lazo-Langner, Departments of Medicine, Oncology, and Epidemiology and Biostatistics

Title: Venous Thromboembolism Prophylaxis in the Perioperative Setting

### May 21, 2014

Speaker: Dr. Qutaiba Tawfic, Anesthesia & Perioperative Medicine

Dr. Elizabeth Saettler, London Regional Cancer Centre, Surgical Oncology

Title: Progression From Acute To Chronic Pain: Can We Stop It?

### September 17, 2014

Speaker: Ruth Bullas, Chief Privacy & Risk Officer, St. Joseph's Health Care London

Pat Colosimo, Coordinator, Perioperative Services, St. Joseph's Health Care London

Larry Lalone, Addiction Education Consultant, Organizational Development & Learning Services, St. Joseph's Health Care London

Brenda Maxwell, ISS/PACU Coordinator, St. Joseph's Health Care London

Dr. Bill Sischek, Citywide Clinical Coordinator and Site Chief, St. Joseph's Health Care London, Anesthesia & Perioperative Medicine

Title: To Disclose or Not to Disclose – Why the Question?

## WORLD ANESTHESIA DAY – 2013 AND 2014

October 23, 2013

Speaker: Dr. Donald Miller, Editor-in-Chief – Canadian Journal of Anesthesia; Professor and Interim Chair of Anesthesia, University of Ottawa; Interim Head of Anesthesiology, The Ottawa Hospital

Title 1: Reporting Transparency in Biomedical Publication: What We, As Readers, Should Know

Title 2: Tips and Pearls for Low Flow Anesthesia

### October 22, 2014

Speaker: Dr. Meena Nathan Cherian, Emergency & Essential Surgical Care (EESC) program; Service Delivery and Safety Department (SDS), Health Systems & Innovation, World Health Organization

Title 1: Global Challenges in Surgery and Anesthesia

Title 2: Global Health Surgery Internship at the World Health Organization

## AITKEN LECTURE – 2013 AND 2014

### December 10 & 11, 2013

Speaker: Dr. Beverly Orser, Professor, Anesthesia and Physiology, University of Toronto; Staff Anesthetist, Director of Research, Department of Anesthesia,

Sunnybrook Health Sciences Centre

Title 1: Anesthetics: Erasing and Salvaging Memory

Title 2: Anesthetics: Unprecedented Biological Probes

### December 9 & 10, 2014

Speaker: Dr. Jeanne Teitelbaum, Associate Professor of Neurology, McGill University; Neurologist and Neuro-Intensivist, Montreal Neurological Institute and MUHC;

Program Director for Neurocritical Care, Montreal Neurological Institute; Director of Stroke Service, Montreal Neurological Institute and Hospital & Royal Victoria Hospital

Title 1: Subarachnoid hemorrhage: contemporary management. Emphasis on newer more controversial aspects of diagnosis, monitoring, and treatment

Title 2: Status epilepticus: contemporary management. Emphasis on treatment with 3rd and 4th line drugs and a new algorithm



## FELLOWSHIP

### Dr. Miguel Arango, Director

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

## Obstetric (OB) Anesthesia fellow Dr. Ramesh Vedagiri Sai wins best OB paper at CAS

Thursday, June 26, 2014

Congratulations to Drs. Vedagiri Sai, Indu Singh, Philip Jones, and Kamal Kumar of the Department of Anesthesia and Perioperative Medicine, who won Best Obstetrics Paper at this year's annual meeting for the Canadian Anesthesiologists' Society.

The poster, SYSTEMATIC REVIEW OF TRANEXAMIC ACID FOR BLEEDING IN CESAREAN SECTION (39201), was presented on June 15th.



## Fellows

**ARWA ALZHRANI**  
Simulation (VH)  
Saudi Arabia

at Monash Medical  
Centre, Southern  
Heath.

**JENNIFER VERGEL  
DE DIOS**

**MARIA VELASQUEZ**  
Neuro (UH)Columbia

**RIZQ ALAMRI** is  
doing a one year  
Neuro Fellowship.  
He is from Saudi  
Arabia where he  
is working as an  
Anesthesiologist at  
King Fahad General  
Hospital

**ASHISH MALIK**  
Transplant (UH)  
India

**ERIKA DUTZ**  
Simulation (VH)  
Australia

**KAMAL KISHORE**  
is doing a one  
year Transplant  
Fellowship. He is  
from Lucknow,  
India where he is an  
Assistant Professor  
in the Department of  
Anesthesia

**MAURICIO GIRALDO**  
Cardiac (UH)  
Columbia

**DAVID JOHNSTON**  
is doing a one year  
Regional Fellowship.  
He is from Northern  
Ireland, United  
Kingdom where he  
is working as an  
Anesthesiologist

**FATEMAH DANYAN  
AL-SALAH**  
Transplant (UH)  
Saudi Arabia

**KAMAL KUMAR**  
Obstetrics (VH) India

**NELSON GONZALEZ**  
Is doing a one year  
Cardiac Fellowship.  
He is from  
Colombia where  
he is working as an  
Anesthesiologist at  
Hospital San Vicente  
de Paul.

**STEPHEN  
MORRISON**  
Transplant (UH)  
Canada

**DENNIS LEE** is doing  
a one year Vascular/  
Thoracic Fellowship.  
He is from  
Southbank, Victoria,  
Australia where he is  
working

**FATEMAH QASEM**  
is doing a one  
year Obstetrical  
Fellowship. She is  
from Kuwait, Saudi  
Arabia.

**KHALID HANISH**  
Cardiac (UH) U.K.

**PARVINDER SODHI**  
is doing a one year  
Regional Fellowship.  
She is from Halifax,  
Nova Scotia  
where she is Staff  
Anesthesiologist  
with the Capital  
District Health  
Authority. She will  
start on July 14,  
2014.

**SUZANNE FLIER**  
is doing a one year  
Cardiac Fellowship.  
She is from The  
Netherlands  
where she has just  
completed her  
Anesthesiology  
Training in April  
2014. She also  
has a Masters in  
Epidemiology and is  
completing her PhD

**HILDA ALFARO**  
Cardiac (UH)  
Columbia

**KIRK DUGUAY**  
Cardiac (UH) Canada

**QUTAIBA TAWFIC  
HAMODI** Chronic  
Pain (UH) Oman

**SZE YING THONG**  
Regional (UH &  
SJHC) Singapore

**JAVIER GIRALDO**

**VISHAL UPPAL**

**RAKESH  
VIJAYASHNAKAR  
SONDEKOPAM**  
Regional (UH &  
SJHC) India

**YASSER HAMMAD**  
Transplant (UH)U.K.

**RAMESH VEDAGIRI**  
SAI Obstetrics (VH)  
U.K.



OB Fellow, Dr. Fatemah Qasem

# Residents

AL-GHAZALY,  
Samer PGY4

GAI,  
Nan PGY2

LUDWIG,  
Nathan PGY3

SCHINDEL,  
Mark PGY4

**PAIN MEDICINE  
RESIDENTS**

BANASCH,  
Matthew PGY3

GALLAGHER,  
Caitlin PGY1

MANJI,  
Farah PGY4

SCHULZ,  
William PGY2

**BADER  
Amjad**

BEBBINGTON,  
Fraser PGY3

ISMAIL,  
Mohamed PGY2

MELTON,  
Natalie PGY1

SMALLWOOD,  
Jennifer PGY3

**PARISER  
Michael**

BEHBEHANI,  
Hasan PGY1

JAKOBOWSKI,  
Luke PGY2

McFARLING,  
Matthew PGY5

TAAM,  
Lindsay PGY5

BULATOVIC,  
Ranko PGY2

JASUDAVISIUS,  
Amanda PGY3

MYSLIWIEC,  
Bart PGY3 FMA

TERLECKI,  
Magda PGY1

CHIN,  
Melissa PGY3

JIANG,  
Jessica Ming PGY2

NGUYEN,  
Don PGY2

THORNTON,  
Alistair PGY4

CHOW,  
Mike PGY1

KHALAF,  
Roy PGY2

PARISER,  
Michael PGY5

VERGEL DE DIOS  
Jennifer PGY5

CUSANO,  
Fiorenzo PGY4

LANDRY,  
Jennifer PGY5

PHILLIPS,  
Colin PGY3

VETHANAYAGAM  
Adrian PGY4

DAHROUJ,  
Dalal PGY2

LAPIERRE,  
Danielle PGY1

QUIGLEY,  
Nicole PGY2

YOUSSEF,  
Hesham PGY3

FISHER,  
Kyle PGY1

LEE,  
Hwa PGY1

RACINE,  
Jennifer PGY5

ZHOU,  
Ray PGY4

FREYTAG,  
Alex PGY2

LIN,  
Bill PGY3

REWARI,  
Abhitej PGY3

FRIDFINNISON,  
Jason PGY2

LOUGHEED,  
Sean PGY4

RIDDELL,  
James PGY5



## ANESTHESIA ASSISTANTS PROGRAM

**Dr. James Watson, Director**

The Department of Anesthesia and Perioperative Care continues to build on the success of the Anesthesia Care Team. We have continued with the development of this program. The two major teaching hospitals in London, London Health Sciences Centre and St. Joseph's Health Care London, and the Department of Anesthesia and Perioperative Medicine have invested more resources into this program to increase the number of Anesthesia Assistants, and increase the number of areas the department can integrate care. Anesthesia Assistants have been integrated in to work routines and clinical care 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 AA's 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 sixth class began in September and was fully subscribed. 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 Respiratory Therapy Department. 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 participate in teaching these courses and workshops. Residents and the participating faculty members have found this to be a rewarding training experience. Enrollment has begun for next year's class.

The role of Anesthesia Assistants is generally becoming widespread in Ontario and Canada and has been recently adopted by the Canadian Anesthesiologists' Society.

Currently, we are developing new models of care in areas where previously, 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 has demonstrated a cost effective, safe and accepted model of care. We have continued to receive funding from the Ministry of Health that continues to support the ACT program. We will continue to explore ways to improve patient safety, efficiency and improve the working conditions for anesthesiologists.



## ACCTTS

### ANESTHESIA AND CRITICAL CARE TEACHING THROUGH SIMULATION

#### Dr. Richard Cherry, Director

ACCTTS FACULTY: R CHERRY (DIRECTOR), A ANTONIOU, I BRUNI, R BUTLER, L CHAMPION, B CHURCH, J GRANTON



During the past year, ACCTTS continued to deliver high quality simulation experiences for learners in our department. In the course of the year, ACCTTS faculty provided over 900 simulation instruction hours. Trainees continue to value this learning modality as one of their educational highlights.

Anticipating the increased demand for simulation activities and instructors, ACCTTS was pleased that Dr. Stephen Morrison joined us this year.

Dr. Morrison will be exploring opportunities to expand our simulation activities in cardiac and transplantation.

Dr. Arwa Alzahrani and Dr. Erika Dutz completed their simulation fellowships at midyear. Dr. Dutz has returned to Australia where she is helping establish simulation based training programs for anesthesia in the Melbourne area. Dr. Alzahrani has remained with us as a clinical fellow and continues to assist with the Clerkship Bootcamp. We are also anticipating the arrival of Dr. Grace Catalan (Philippines) and Dr. Abdullah Alraffa (Saudi Arabia) as our simulation fellows for 2015.

ACCTTS is preparing to deliver the first of the CanNASC

(Canadian National Anesthesia Simulation Curriculum) scenarios to our fourth year residents in the spring of 2015. These standardized scenarios have been developed in collaboration with other programs across the country and are positioned to provide objective assessment of resident performance in simulated clinical situations. This is a tremendous accomplishment for the academic anesthesia community nationally and ACCTTS has been pleased to be a part of this. Simulation based teaching and assessment is positioned to become an increasingly important component of training as the department transitions to a new paradigm of Competency By Design.

Again in 2014, ACCTTS was pleased to deliver the curriculum for the Anesthesia Clerkship Boot Camp, the CSTAR IPE Summer School, Surgery PGY1 Simulation and assist in the annual Emergencies in Otolaryngology course. We continued to create and deliver interprofessional simulation experiences for obstetrical emergencies under the guidance of Dr. Andreas Antoniou.

Our group continues to represent the department at notable national and international meetings. ACCTTS faculty continues to be involved with the Royal College Simulation Summit and the Simulator Educator Training Course. At the International Meeting for Simulation in Healthcare (IMSH San Francisco Jan 2014) Dr. Cherry collaborated in presenting two preconference workshops covering the topics: Faculty Development in Simulation and Managing the Difficult Debrief.



## CARDIAC SURGERY RECOVERY UNIT

### Dr. Ron Butler, Director

The Cardiac Surgery Recovery Unit (CSRU) is a 14 bed critical care unit that specializes in the care of the post-operative cardiac surgery patient. The CSRU is one of three teaching intensive care units under the leadership of the Critical Care Program.

Each year we care for over 1300 patients that undergo Cardiac Surgery including: coronary bypass, valve replacements, heart transplantation, minimally invasive and robotic cardiac surgery, trans-catheter valves and ventricular assist device placement.

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 staffed by critical care physicians with backgrounds that include cardiac anesthesiology, critical care medicine, and cardiac surgery. Resident trainees from anesthesia, cardiac surgery, cardiology, and critical care rotate through the unit along with cardiac anesthesia fellows. The CSRU has an Advanced Practice Nurse who works within the unit and provides a key link between the CSRU and Cardiac Surgery ward.

The CSRU provides excellent experience in postoperative cardiac surgery care both clinically and academically. One and two year Fellowship opportunities are available within the unit.

## OBSTETRIC ANESTHESIA

### Dr. Sandra Katsiris, Director

The Obstetrical Anesthesia Program at Western University is now fully established in the Grace Donnelly Women's and Children's Health Pavilion, at London Health Sciences Centre, Victoria Hospital. The Obstetrical Anesthesia Subspecialty group has been able to

cooperatively focus their efforts on patient care, teaching, and research, with routinely dedicated time spent in the Obstetrical Care Unit.

The volume of deliveries for the city was approximately 6000 this past year, higher than the prior year, and approaching the number anticipated (6500) for our consolidated unit. Approximately 60% of the deliveries were high-risk. The epidural rate was similar to last year at approximately 75%, and our use of patient controlled analgesia for labour was approximately 5%. The cesarean section rate was comparable to previous years at 22%. Approximately 90% of cesarean sections continue to be completed under regional anesthesia.

The core resident rotations through the Obstetrical Unit were fully subscribed again this year, with two residents most often assigned during each rotation block. In addition to core Western University trainees, there were also residents from other institutions that chose to come to London for elective experience in obstetrical anesthesia. Dr. Indu Singh has been coordinating these rotations. Dr. Andreas Antoniou has coordinated multi-disciplinary simulation sessions for the obstetrical care team. These sessions involve Anesthesiology, Neonatology, Nursing, Obstetrics, and Respiratory Therapy.

The development of a simulation room on-site has allowed these sessions to reach a multitude of participants each time they are run.

As in past years, obstetrical anesthesia was a common theme in trainee presentations at regional, national and international meetings. The obstetrical anesthesia program was honoured to have the abstract 'Systematic review of efficacy of tranexamic acid for decreasing blood loss during cesarean section' (authors R. Sai, I. Singh, K. Kumar, P. Jones) awarded best OB anesthesia research paper at the Canadian Anesthesiologists' Society Annual Meeting in 2014.

The Obstetrical Anesthesia Fellowship Program had Dr. R. Sai as a clinical fellow this past year. Dr. Sai presented at both the Canadian Anesthesiologists' Society Annual Meeting, as well as the Obstetric Anesthetists Association Annual Meeting. Drs. Fatemah Qasem and Ilana Sebbag are our new fellows for 2014-2015.

## PAIN MANAGEMENT

**Dr. Pat Morley-Forster, Director**

### CLINICAL CARE

Annual patient visits in 2014 for the SJHC Pain Management Program totaled approximately 6300, almost 2000 being new consultations. Over 1300 visits were for fluoroscopic-guided interventions or therapeutic infusions of ketamine and/or lidocaine.

In the summer of 2014, we were informed that St Joseph's had received increased funding for the Pain Management Program through a Ministry-funded Post-Construction Operating Plan. These funds allowed us to expand individual and group therapy programs for patients, provided by psychology, physical therapy and occupational therapy. The following new educational/therapeutic programs are now offered: Pain Management Group (10 sessions), plus "booster sessions" (4/yr), Depression Treatment Group (10 sessions), Mindfulness Meditation for Pain (4 sessions), and two Sleep Hygiene Groups.

Dr. Qutaiba Tawfic-Mahodi was appointed to the Department of Anesthesiology in the fall of 2014, after he had completed a one year fellowship in Pain Medicine at Western in July. His practice will focus on Interventions for Spinal Pain and he will also strengthen links between the Acute and Chronic Pain Services. Dr. Kate Ower was appointed Medical co-Director of the SJHC Pain Program taking over some administrative duties from Dr. Morley-Forster.

### EDUCATION

#### UNDERGRADUATE

The Meds IV Pain Medicine Selective has been revised at the request of the Schulich Curriculum Committee to 10 seminars of 1.5 hours each, involving a case-based approach and greater interactivity. In addition, there is now a mandatory case-based module for Meds IV focusing on Chronic low back pain with concurrent addiction.

#### POSTGRADUATE

Anesthesia residents rotate through the Pain Management Program for at least one block, more if

requested. We also offer Physical Medicine residents a two or three month rotation as part of their residency training requirements. Pain Management continues to be a popular selective with Family Medicine, and Psychiatry and residents from other medical schools.

Within the Western Anesthesia Residency Program, 6 academic half-days covering a variety of acute, chronic and cancer pain topics was offered to the Senior Resident group.

The Royal College Pain Medicine Subspecialty Program, a two year multidisciplinary training program, that includes blocks of Psychiatry, Addictions, Pediatrics, Neurology, Physical Medicine and Rehabilitation, and Rheumatology in the curriculum received official approval from the Royal College in June, 2013. Western was the first university to gain program accreditation under Dr Bellingham, as the Program Director. Dr Michael Pariser and Dr Amjad Badder started their training in July, 2014. As this training program is the first of its kind in Canada, it received wide national media attention on CBC radio and television. Academic teaching sessions for the PM residents are held every second Wednesday.

### CONTINUING MEDICAL EDUCATION

A conference entitled, "A Balanced Approach to Pain Management", accredited by Schulich was held at In-Medic Pain Management Centre on May 30-June 01, 2014. The planning committee was chaired by Dr. Patricia Morley-Forster who also moderated the three day event. Invited speakers included Drs. Geoff Bellingham and Collin Clarke. Thirty-eight were registered; feedback was excellent.

Interdisciplinary Clinical Pain Rounds (MAINPORT – accredited) were presented on Wednesday AM every three months, with an emphasis on Case Discussions. Upcoming topics/cases are announced on [www.westernpain.ca](http://www.westernpain.ca).

### PATIENT EDUCATION DAYS

Each day consisting of 4 multidisciplinary presentations were offered on March 28, July 11 and November 14. Forty to 50 patients attended each day, with very positive feedback.

A mandatory Patient Orientation introductory session which will be given by the Pain Medicine residents is being planned to start January 2015.

An interactive case-based workshop highlighting Guidelines for Neuropathic Pain Diagnosis and Management was held February 8th attended by 18 family physicians, pain specialists and allied health.

A Pain Update half-day session primarily targeting family physicians was offered April 24 at the London Club

## RESEARCH

Trainee grants of up to \$10,000 are available annually from the Earl Russell Chair in Pain Management and Research to provide seed funding for pain research projects initiated by trainees registered at Western University or Lawson Health Research Institute. In 2014, unfortunately no applications were received, so no awards were made.

An Interdisciplinary Research Program is led by Dr Dwight Moulin, the Earl Russell Chair of Research and Education in Pain Management. Further information is available in the Earl Russell Annual Report, available on [www.westernpain.ca](http://www.westernpain.ca).

## RESEARCH GRANTS HELD BY DEPARTMENT OF ANESTHESIA AND PERIOPERATIVE MEDICINE FACULTY

Dr. Qutaiba Tawfic-Mahodi, and Dr. Pat Morley-Forster. Low Dose Oral Ketamine Adjuvant Therapy in Chronic Pain Patients – A Pilot Study to Assess Safety. Internal Research Fund Award from Dept of Anesthesia and Perioperative Medicine: \$7,600.00

Near-infrared Spectroscopic Measurement of Tissue Oxygen Saturation and the Vascular Occlusion Test During Immobilization, Carpal Tunnel Syndrome, and Pre and Post-Stellate Ganglion Blockade for CRPS, Department of Anesthesia & Perioperative Medicine Schulich School of Medicine & Dentistry Internal Research Fund. John Murkin, Collin Clarke, Qutaiba Tawfic, Ruby Grewal, and Will Schultz: \$8,200.00



## PAIN MANAGEMENT CONTINUING MEDICAL EDUCATION & ACADEMIA

### MORLEY-FORSTER, PATRICIA K

#### Administrative Positions:

2011-2014: Chair, Specialty Committee Pain Medicine, Royal College of Physicians and Surgeons of Canada

2014: Member, Royal College of Physician and Surgeons for Canada Examination Board, Pain Medicine

#### Teaching Awards

2013 - 2014: Top 20% Clinical Teacher, Level: Undergraduate, Scope: Department, Western University, Schulich School of Medicine & Dentistry, Department of Anesthesia & Perioperative Medicine, London, Ontario, Canada

#### External Reviewer

External reviewer, MSc Clinical Sciences Thesis, "Chronic Pain, Opioids and Ovarian Hormones." Candidate, Ms. Samah Hassan, Collaborative Graduate Program in

Women's Health, University of Toronto

#### Invited Lectures

"Collaboration in action: Referral from primary care to the tertiary pain clinic" London, April 24, 2014

"Medical Marijuana/ Methadone for Pain: What Do I Need to Know?" 59th Annual Ontario Anesthesia Meeting. September 18-21, 2014

"Chronic Pelvic Pain- Emerging Views" Back and Pain Center, University of Michigan, Ann Arbor, MI. May 20, 2014.

"National Guidelines for Chronic Pain – The Patient Experience". Pain Management Program, St. Joseph's Health Care, London, ON. February 8, 2014.

Pain Medicine: An Update. Canadian Society of Anesthesiology Chronic Pain Section Meeting. St John's, June 15-19, 2014.



The Biology of Chronic Pain" Effective Pain Self-Management Session, Pain Management Program, St. Joseph's Health Care, London. March 28, 2014; July 11, 2014; November 14, 2014

### Postgrad Teaching Sessions

Chronic Pelvic Pain, December 3, 2014.

Overview of Abdominal Pain for the Pain Specialist, November 26, 2014

Topical Analgesic Agents, December 17, 2014

### CLARKE, COLLIN

#### Administrative Committees

CANADIAN ANESTHESIOLOGISTS' SOCIETY

2013 - present: Chair, Chronic Pain Section Committee

ROYAL COLLEGE OF PHYSICIANS AND SURGEONS OF CANADA

2013 - present: Pain Medicine Specialty Examination Committee

DEPARTMENT OF ANESTHESIA & PERIOPERATIVE MEDICINE, WESTERN UNIVERSITY

2011 - present Member, Research Committee

WESTERN UNIVERSITY

2012 - present: Member, Pain Medicine Residency Committee

2012 - present: Member, Anesthesia Academic Affairs Committee

2011 - present: Member, Pain Program Scientific Advisory Board

LONDON HEALTH SCIENCES CENTRE/ST. JOSEPH'S HEALTH CENTRE OF LONDON

2014 - present: Member, Integrated Community Care Committee for E-Governance

2013 - 2015: Member, City Wide Blood Transfusion Committee

2013 - 2014: Member, Look Alike, Sound Alike, Drug Committee

2013 - 2015: Board Member, Medical Emergency Response Committee

2013 - 2015: Vice Chair, Medical Advisory Committee

2013 - 2015: Board Member, Quality Committee of the Board

2013 - 2015: Board Member, Quality Council

#### Continuing Medical Education

INVITED LECTURER

2013 Sep 28: Ontario Anesthesia Society Meeting, Niagara Falls, Ontario, Canada, 'Prediction, Prevention and Management of Chronic Post-Surgical Pain'

2013 Oct 6: Ontario Hand and Upper Limb Symposium, Ontario, Canada, 'Complex Regional Pain Syndrome'

2013 Oct 16: Western University, London, Ontario, Canada, Principles of Surgery Curriculum. 'Pain Management in Surgical

Patients'

2014 Apr 22: London, ON, Oncology Grand Rounds, 'Pain and Palliative Care, where are we going,' Management of Pain Crisis in Palliative Care

2013 Apr 10: London, ON, Anesthesia Resident Lecture, 'Opioid Pharmacology'

### OWER, KATHERINE

#### Administrative/Education Positions:

Medical Co-Director, St Joseph's Health Care Outpatient Pain Program

Medical Director, Acute Pain Service, Victoria Hospital

Chair, Pain Clinic Advisory Committee, St Joseph's Health Care

Resident Education Coordinator, SJHC Outpatient Pain Program

### BELLINGHAM, GEOFF

Department of Anesthesia & Perioperative Medicine, Western University

- Academic Affairs Committee. Member. 2010 – Present.
- Chronic Pain Fellowship. Subspecialty Education Coordinator. 2012 Jul – Present.
- Quality Assurance Committee. Member. 2010 – Present.

Western Pain Medicine, Western University: Scientific Advisory Board for Western

Pain Clinic and Earl Russell Pain Chair. Board Member. 2012 – Present.

For his work in establishing the first Canadian residency in Pain Medicine, Dr Bellingham was awarded the 2014 SJHC Medical Affairs Committee award for outstanding contribution by a Credentialed Professional Staff member of St. Joseph's.

#### WORKSHOPS

July 17-19, 2014: University of Toronto Chronic Pain Fellow's Day: Lecturer and Workshop Demonstrator.

June 16, 2014: Canadian Anesthesiology Society Conference, St. John's, Newfoundland; Workshop Demonstrator: Piriformis Injection, Caudal Epidural Injection, Sacroiliac Joint injection via Ultrasound Guidance.

For a complete list of publications, including those authored by the Pain Management group, please refer to p. 44



## PALLIATIVE MEDICINE

### Dr. Valerie Schulz

Dr. Valerie Schulz is practicing in Palliative Medicine, in the Department of Anesthesia & Perioperative Medicine, London Health Sciences Centre (LHSC), Western University (UWO). Through the support of this department she has been able to contribute to clinical, educational, research and academic advances in Palliative Medicine during 2013-14.

Dr. Schulz participates clinically in LHSC's Critical Care Units, and in the renal dialysis unit at University Hospital. This service considers an approach to symptom management and goals of care and treatment options for patients with life threatening and/or life limiting illnesses.

Provincially, Dr. Valerie Schulz was invited to participate with Ontario Palliative Care leaders on the inaugural Provincial Hospice Palliative Care Clinical Council. This Clinical Council collaborates with the Provincial Hospice Palliative Care Steering Committee by developing strategic, scalable recommendations to systematically advance Palliative Care across Ontario.

In addition Dr. Schulz is the Co-Chair of the Ontario Renal Network (ORN) Palliative Care Working Group. This group has been established to lead the Palliative Care component of the next ORN Plan.

Nationally, Dr. Schulz participates on the Working Group in Palliative Medicine at the Royal College of Physicians and Surgeons of Canada's to develop the subspecialty certification in Palliative Medicine.

Drs. Valerie Schulz and Lorelei Lingard at the Centre for Research and Innovation (CERI) UWO, provide leadership for a multi-site, multi-province Palliative Care project exploring: Palliative care on the heart failure care team: Mapping patient and provider experiences and expectations. CIHR and AMOSO AFP Innovation Funding support this on-going project. This year's research focus created partnerships and dissemination of results at local, provincial, national and international conferences.

Palliative Care is advancing at a rapid pace across Ontario and Canada, and Dr. Valerie Schulz has dedicated her career to this laudable cause.

These contributions to Palliative Medicine were made possible through the support of Western's Department of Anesthesia & Perioperative Medicine.

## PEDIATRIC ANESTHESIA

### Dr. Mohamad Ahmad

2014 was a landmark year for our pediatric anesthesia program with the recruitment of two highly-qualified and dedicated pediatric anesthesiologists.

We welcomed Dr. Raju Poolacherla in January. Raju completed his pediatric anesthesia fellowship at Great Ormond Street Hospital for Sick Children in 2007 and then joined Frenchay Hospital in Bristol as a staff anesthesiologist. He has special interests in quality improvement and pediatric chronic pain. His clinical expertise and enthusiasm for teaching have been well-received.

Dr. David Sommerfreund completed his pediatric anesthesia fellowship at University of Sydney - Westmead and returned to London in September. David grew up in London and graduated from our residency program in 2013. We are all very proud of David and are happy to have him back. David has expressed an interest in pediatric simulation and acute pain.

Regrettably, the much admired Drs. Ian Anderson and Trevor Lobb retired this year. We eventually managed to cajole both these genuine professionals into letting us celebrate them. Their teaching excellence as skilled pediatric anesthesiologists will ensure their impact is felt for many years to come. Indeed, they have probably trained most of the anesthesia consultants in London and many others beyond.

Academic events of significance in 2014 include an invitation for greater research collaboration from our pediatric surgical colleagues. We have embarked on a multidisciplinary effort to study and improve the care of children with perioperative respiratory tract infections. We have also been invited to participate in the pediatric simulation program at Victoria Hospital. We look forward to making leading contributions.

The concentration of pediatric work into our subspecialty group continues to improve our ability to deliver excellent clinical care for our patients and learning experience for our residents. Although there is still

room for improvement, we have largely met all the recommendations of our last external review.

Clinically, our work in the OR has received a boost with the completion of new operating rooms near Pediatric Day Surgery. This along with shortening the workday to 3 pm has made child-friendly care easier. The shorter days have also facilitated establishment of a pediatric journal club in the afternoons.

We continue to expand our out-of-OR role including procedural sedation for which we are now considered the standard-bearers throughout the pediatric hospital. We have achieved this by providing great service, consultation and leadership. This program has expanded so much that it has become unwieldy in some ways and will require a structural redesign over the next year. We anticipate the near-term opening of the new operating rooms at the Western University dentistry school will increase demand for our services as well.

Additional challenges and goals for 2015 include increasing our academic productivity and aspiring to match the high quality simulation provided by our department at CSTAR. Finally, we want 2015 to be a year when we adopt new technologies in a big way for our clinical and teaching work, scheduling and quality improvement.



Dr. David Sommerfreund



## PERIOPERATIVE PATIENT BLOOD MANAGEMENT

FORMERLY THE PERIOPERATIVE BLOOD CONSERVATION PROGRAM

DR. FIONA RALLEY, DIRECTOR

The perioperative blood conservation program is changing its name to be more in line with similar programs in North America. Due to the diversity of services offered, this area of patient management has recently been referred to a Patient Blood Management (PBM). Therefore at the last meeting of the committee it was decided that we would also adopt this new name. It was agreed upon that as our main area of interest was in the perioperative period that the word perioperative would remain, leading to our new name of Perioperative Patient Blood Management (PPBM). However, only our name has changed and the major focus of the program remains to help patients who will be having an operation to decrease, or completely avoid, the need for blood transfusion.

ONTraC (Ontario Nurse Transfusion Coordinators) continues to be the main driving force of the program. Each year data is collected on specific patient populations (orthopedics (THJR and TKJR), cardiac (CABG and valve replacement), radical prostatectomy) and comparison is made between the 25 ONTraC sites as to transfusion avoidance and utilization of blood conservation strategies.

For several years LHSC has had one of the lowest transfusion rates in our orthopedic population, due mainly to the introduction of the routine use of Tranexamic Acid (both intravenous and intra articular) since 2008. As other centers have adopted a similar strategy their transfusion rates have also decreased.

This year data on non-cancer, open gynecological procedures was collected and reviewed. Unfortunately LHSC had one of the highest transfusion rates in this area compared to the other sites and this will be a main area for improvement over the next 12 months.



READ MORE:

Ralley FE. Erythropoietin and intravenous iron in PBM. Transfus Apher Sci. 2014 Feb;50(1):16-9.

One vs. two unit transfusion rates for red blood cells remains an ongoing challenge for the program as it takes a long time to alter practices that have been in place for many years. However slow but gradual improvement has been seen this year which may be due in part to the yearly presentations (now in its 4th year) on blood products and transfusion decisions, made to the first year surgical residents by members of the program. This year focus will also be directed to the appropriate use of fresh frozen plasma, which in a recent hospital audit showed a nearly 75% inappropriate use.

As in previous years the program continues to be very active in research with many members of the program involved in several projects/publications. The multidisciplinary nature of the program lends itself to this type of research across several specialties.

In addition, the program is involved in a multicenter study looking at the use of a point of care testing algorithm to direct transfusion decisions in patients bleeding after cardiac surgery.

As always the PPBM extends an invitation to anyone who wishes to enquire about any of our many patient blood management strategies to contact any member of the program.



## REGIONAL ANESTHESIA & ACUTE PAIN SERVICE

**Dr. Kevin Armstrong, Co-director**

**Dr. Sugantha Ganapathy, Co-director**

The RA and APS programs strive to be effective in three core areas.

1. Clinical: to provide our patients with optimal care.
2. Education: to provide our trainees the opportunity to develop knowledge and skill in management strategies which address both routine and complex peri-operative management issues.
3. Research: to be productive in the development and dissemination of knowledge related to these specialties.

### NEW MEMBERS OF THE APS

In 2013 we welcomed two nurse practitioners (NP) to the department and the APS. Heather Whittle (VH) and Charlotte McCallum (UH) graduated from the Nurse Practitioners' Programs in January. After an opportunity to develop a deeper understanding of the assessment and management of chronic pain with our chronic pain colleagues (Pat Morley Forster, Geoff Bellingham, Collin Clarke and Kate Ower), they joined the APS.

With these expanded skills and together with our nurse clinicians, Cindy Carnegie (UH), and Heather Fisher (VH), we now have greater resources to address patients who come to the hospital with pre-existing pain issues or those who develop challenges in the perioperative period.

The intention is to expand our reach to the patients pre-operatively as well as post operatively. Eventually these Nurse Practitioners will provide a bridge to both Chronic Pain and Palliative Care patients in the Comprehensive Pain Management Program.

### UNIVERSITY HOSPITAL

2013 saw us initiate the UH block room. There are a number of goals here, the first is to increase the ability to

offer patients who would benefit most, or those who wish to have regional anesthesia as part of their anesthesia and/or pain management.

Regional anesthesia takes time to both perform and learn. Although resources are required to maintain a block room, there will be gains for patient care, education and clinical research. The OR is a highly resourced environment and is subject to significant time restraints. The block room will improve overall efficiencies through reduced OR utilization when possible. It will allow a better environment for learning by our trainees. Similarly clinical research in RA often requires additional time for assessment pre-operatively, this is more readily achieved without impacting negatively on the time of the anesthesiology, surgery and OR nursing teams. Intended care and research includes lower and upper limb peripheral nerve block, central nerve blockade and spinal imaging. Development of an outpatient regional analgesia program for patients having a high tibial osteotomy is moving ahead.

### ST. JOSEPH'S HEALTH CARE LONDON

The St. Joseph's block room continues to be the location where patient care, and the education of our residents, and subsequent research related to upper limb regional anesthesia takes place simultaneously. Over the years it has become an efficient, and integral process of the operating room. From the surgical day care unit, the OR, the PACU and the day surgery or inpatient units, there are approximately 2000 procedures done here yearly. This requires a significant commitment by all stakeholders (anesthesia, nursing, surgeons and patients) to team work and communication. The outpatient regional program continues to allow patients from Middlesex and Elgin counties to be discharged home with regional analgesia.

### VICTORIA HOSPITAL

As in the past, our residents gain their greatest structured APS learning through exposure at the Victoria Hospital site. Under the direction of Kate Ower, the VH site has also served as a test site for the electronically generated electronic orders. This project will ease the transition to computer provider order entry in early 2014. For the past few years electronic charting at both LHSC sites, has been the norm for APS charting. As with electronic generated orders, when the electronic patient record becomes a reality there is hope the transition is smooth.

#### LHSC AND ENHANCED RECOVERY SERVICES (ERAS)

With the leadership of Chris Harle and Chris Schlachta (surgery) LHSC has entered into the ERAS program. This initiative is designed to assess the adherence and outcomes of evidence informed practices which improve recovery after colorectal surgery. In addition to some measures which affect traditional anesthesia management of these patients, there is an emphasis on pain management. These include intra-operative lidocaine infusions, epidural analgesia and multimodal analgesia. The APS and RA programs will contribute significantly in this project.

#### WEBSITE

The Acute Pain Service website (<http://www.lhsc.on.ca/priv/pain/algorithm.htm>) is managed by Cindy Carnegie. This provides visitors the opportunity to gain insight into topics related to acute and chronic pain management. Be it the assessment of pain, anatomy, mechanisms of pain, regional anesthesia, oral and parenteral agents or non-pharmacological methods.

This site serves as an educational portal for our consultants, trainees and nurses.

#### COMPUTER PROVIDER ORDER ENTRY

Bobbi Jo Morrell, Kate Ower, Heather Fisher and Ian Herrick through HUGO (Health UnderGoing Optimization) have provided great input to the anesthesia orders which will become part of the electronic ordering system. One aspect of the orders will be those orders used by the APS and RA groups. Over the coming year (early 2014), the implementation will be enhanced due to their contributions.

#### **Department Nurse Practitioner Heather Whittle, receives Nursing Alumni Award of Distinction at Homecoming**

Tuesday, September 23, 2014

Western's Nursing Alumni Chapter offers an annual award program that recognizes significant contributions by an alumnus to the university community, the Arthur Labatt Family School of Nursing and nursing profession. The recipient is a role model for those new to the profession and sets a standard of excellence to which others can aspire.



Charlotte McCallum (left) and Heather Whittle (right), pictured with Dr. Vanessa Burkoski (centre), Vice President and Chief Nursing Executive, Quality, Patient Safety and Professional Scholarly Practice.

## THORACIC AND VASCULAR ANESTHESIA

**Dr. George Nicolaou**

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 Western University. 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 six times a week and thoracic surgery five 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 SURGERY

The robotic (da Vinci robot) and video-assisted thoracic surgical (VATS) programs 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. The majority of our adult and pediatric patients receive thoracic epidurals or paravertebral blocks for postoperative pain management.

### VASCULAR SURGERY

The Vascular Division of Surgery at Victoria Hospital continues to be a pioneer in endovascular stenting of abdominal and thoracic aneurysms and claims one of the largest series in North America. In April 2013, the construction of the hybrid vascular operating room was completed. This hybrid suite is equipped with numerous large, high-definition, flat-screen monitors for viewing images as well as the patient's vital signs. It combines the newest computer generated technology and the newest radiologic imaging in a sterile operating room environment. This gives the surgeons the ability to perform traditional, open surgery and minimally invasive, endovascular procedures on the same patient, at the same time, in the same place.

#### Patient benefits include the following:

- Shorter procedure times;
- Less radiation used during imaging;
- Reduced need for ICU care;
- Shorter hospital stays;
- Faster recovery.

Ruptured abdominal and thoracic aneurysms that have favourable 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 12 endovascular thoraco-abdominal aneurysm repairs. Preliminary results of one of our studies have shown that spinal oximetry detects decreases in spinal cord blood flow early, allowing for the early initiation of preventive spinal cord protection treatment strategies. We presented our results on spinal cord protection strategies at the 2012 International Forum of Cardiovascular Anesthesia in China.

#### TRANSESOPHAGEAL ECHOCARDIOGRAPHY (TEE)

Our Transesophageal Program is well developed with formal teaching and multidisciplinary weekly rounds. We have also acquired a new TEE machine with 3D capabilities. 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 anesthesiologist involved in vascular anesthesia is experienced in TEE, there is usually one anesthesiologist experienced in TEE available for guidance.

#### POINT-OF-CARE ULTRASONOGRAPHY

Recently, we have acquired a new ultrasound machine for point-of-care ultrasonography for use in the perioperative period. We are in the process of developing a formal basic and advanced teaching program for point-of-care ultrasonography for consultants, fellows and residents.

#### RESIDENT 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 PROGRAM

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.

#### SIMULATION

The integration of simulation scenarios on thoracic and vascular anesthesia for fellows and residents has been very successful and rewarding. This environment allows for better preparation in this clinically diverse patient population. We continue to develop in this frontier of enhanced learning.

#### RESEARCH PROJECTS IN PROGRESS

- The influence of CPAP and PEEP (with a recruitment maneuver) on PaO<sub>2</sub> during one lung ventilation, employing a lung protective ventilation strategy;
- Treatment modalities for spinal cord protection;
- Comparing Transcutaneous to Transdural Near-Infrared Spectroscopy for Detection of Regional Spinal Cord Ischemia in a porcine model;
- Biochemical markers of spinal cord ischemia in patients undergoing thoracic aortic endovascular repair.



## TRANSPLANT (LIVER) ANESTHESIA

**Dr. Achal Dhir, Director**

FACULTY: Dr. W Dobkowski, Dr. A. Vannelli, Dr. C. Harle, Dr. F. Ralley, and Dr. S Morrison

Liver transplantation program continues to provide excellent clinical care to patients for liver transplantation, liver resections and major Hepato-biliary surgeries. Dr. Stephen Morrison, after completing one-year of fellowship, joined the team in July 2014. He has also joined the simulation program and will explore the possibilities of simulation in transplantation anesthesia. His other area of focus is the ROTEM technology.

From July 2013 to December 2014, we provided services for 75 liver transplantations including many critically ill recipients from the ICU and one Kidney-Liver transplant combination. 59 livers came from brain dead donors while 15 were donations after cardiac death and one living related liver transplant. During the same period, the group also provided services to more than 100 major liver resections along with ALPPS procedures. The group is also involved with preoperative assessment and optimization of patients before they are listed for transplant waiting list. Since 2013, we have started using 'ROTEM' for assessing coagulation status. This technology is expected to change our practice of blood transfusion and decision-making.

We also run a successful fellowship program with 2 fellows. Dr. Ashish Malik completed his transplant fellowship and is now leading the liver transplant program in a center in Delhi, India. Dr. Aphichat Suphathamwit also has joined the liver transplant team in Bangkok, Thailand. Dr. Kamal Kishore joined the fellowship in July 2014 while Dr. Latha Naik will be joining in January 2015. Apart from getting excellent clinical training, fellows are also involved with research and academic activities. We are trying to incorporate Trans Esophageal Echocardiography basic training for liver fellows. Our sub-specialty also conducts monthly PBLDs and discussions on journal articles. Liver Transplantation Anesthesia group attends Bon-Mots Transplant rounds regularly and also participates in 'Liver assessment' and 'M & M' rounds conducted by Transplant surgeons & Hepatology colleagues.

Our group presented three interesting and clinically challenging case reports of liver transplantation / resection at the annual meeting of 'International Liver Transplantation Society' in London, UK.

The project on infusion of ketamine and Lidocaine for pain management after major liver resection is expected to complete this year. Our other project on 'Extended donor criteria and orthotopic liver transplantation – an outcome study of the Canadian system' is completed and the manuscript is being written. A multidisciplinary research project using ROTEM technology in major liver resections has just begun and we hope to start recruiting patients for the project of 'Peripheral circulation during end stage liver disease' soon.

For several years, Dr. Dhir and Dobkowski have been collaborating and organizing the 'Transplant symposium / session' during the annual CAS conferences. The session targets non-transplant anesthesiologists across Canada and focuses on transplant related issues.

Dr. Dhira delivered invited lectures on 'Coagulopathy of the liver disease' in 2014 CAS and on 'Intraoperative Hypotension during recipient surgery' in a Liver Transplant Symposium in New Delhi, India. Dr. Dhira was also a panelist on 'Pulmonary vascular abnormalities in ESLD' in the symposium. Drs. Harle & Morrison and Drs. Dhira & Suphathamwit contributed two book chapters in 'Anesthesia and Perioperative Care of the High-Risk patient' edited by Dr. Ian McConachie.



# MEDICI

## Centre for Medical Evidence, Decision Integrity, Clinical Impact

**Dr. Janet Martin, Program Director**  
**Dr. Davy Cheng, Medical Director**

The Centre for Medical Evidence, Decision Integrity, Clinical Impact (MEDICI) was established in 2011 with the support of the Schulich School of Medicine and Dentistry, London Health Sciences Centre, St. Joseph's Health Care London and Lawson Research. MEDICI is the first university and hospital-based, evidence-based health technology assessment program in Ontario. MEDICI has three key mandates:

1. To provide timely, contextualized evidence syntheses to enable evidence-based decision-making related to drugs, devices, procedures and programs in healthcare, with special focus on hospital based decision-making at the local level, but with relevance also to regional, national, and international healthcare decision-making;
2. To provide educational opportunities for local decision-makers and students to build capacity in evidence-informed decision-making and health technology assessment, and to expand educational opportunities nationally and internationally to enable improved decision-making globally regarding decision-making and knowledge translation regarding health technologies and programs in the developed and developing world; and
3. To conduct cutting-edge research to advance the front of health technology assessment, economic analysis, health policy analysis, decision-making sciences and knowledge translation.

In 2013, MEDICI became an EXCITE Methodology Centre and welcomed the addition of Dr. Ava John-Baptiste, a Health Economist. Ongoing MEDICI Research Programs: Know4Go: Combining Evidence + Ethics + Economics + "Everything Else" to inform value in health care

- Real World Robust Decision-Making
- Quantifying the Opportunity Cost
- Disinvestment Methodology
- Evidence Contextualization
- Relevance of health economics in the hospital setting



### HIGHLIGHTS

#### September 2013

MEDICI Program Director Dr. Janet Martin was invited to a Roundtable Meeting on Technological Innovation in Health Care with the Honorable Rona Ambrose, Federal Minister of Health in Toronto on September 9th 2013

**Dr. Martin was one of 9 invited leaders of innovation in health care, and presented on the Know4Go Decision Support Framework and the work of the MEDICI Centre**

Visiting Professors Dr. Myeongjong Lee (Konkuk University, Chungju Hospital) and Dr. Zhe Zhang (Fuwai Cardiovascular Hospital) joined the MEDICI Centre in 2013

Dr. Lee and Dr. Zhang participated in several MEDICI Projects and developed their skills in the systematic review and meta-analysis process. Projects included: Goal-Directed Therapy; Prehabilitation in Total Hip & Knee Arthroplasty; TAVI vs. Standard AVR; Ischemic Pre-conditioning

#### November 2013

In partnership with the Canadian Agency for Drugs and Technology in Health (CADTH), MEDICI co-hosted a Hospital/Regional HTA Symposium on Local Evidence-Based Decisions for Health Care Sustainability in Ottawa from November 18th-19th 2013

The symposium included leaders in hospital and regional-based health technology assessment from across Canada. Presentations are available online through CADTH's website: <http://www.cadth.ca/en/events/2013/hospitalregional-hta-symposium>

## February 2014

MEDICI was joined by our first Postdoctoral Fellow, Dr. (Angel) Fang Zhu. Dr. Zhu completed her training at the Chinese University of Hong Kong and brings her experience in systematic review and meta-analysis to the team.

## May - August 2014

We had an opportunity for several students to join us this year. Dr. John-Baptiste supervised three students over the summer (Young Zhou, Sivisan Suntheralingam, (Max) Yuan Qi) on a disinvestment project, and Amy Newitt (MLIS Candidate) joined the team in August.

## November 2014

MEDICI Program Director Dr. Janet Martin was invited to attend the Healthcare Innovation Panel with Dr. David Naylor and the Honorable Rona Ambrose, Federal Minister of Health in Toronto on November 25th 2014.

Dr. Martin was one of 35 stakeholders invited to a one-day regional consultation on healthcare innovation.

## December 2014

MEDICI Directors, Drs. Martin & Cheng, were invited by the World Health Organization to participate in rapid guideline development for patients with surgical conditions in the context of Ebola Virus Disease.



Dr. Myeongjong Lee, Dr. Zhe Zhang, Jessica Moodie, Dr. Ava John-Baptiste, Max Yang Qi, Dr. Fang Zhu, and Dr. Janet Martin

## THE TEAM

**Janet Martin, PharmD, MSc(HTA&M)**

Program Director

**Davy Cheng, MD, FRCPC**

Medical Director

**Avtar Lal, MD, PhD**

Systematic Reviewer

**Li Wang, MD, PhD**

Systematic Reviewer

**Ava John-Baptiste, PhD**

Health Economist

**Aiswarya Chandran, MD**

Research Associate

**Jessica Moodie, MLIS**

Program Coordinator &  
Information Specialist

## TRAINEES

**(Angel) Fang Zhu, MD, PhD**

Postdoctoral Fellow

**Myeongjong Lee, MD, PhD**

Visiting Professor

**Zhe Zhang, MD, MSc**

Visiting Professor

**Jennifer Vergel de Dios, MD, MPH**

Research Fellow

**Amy Newitt**

Project Assistant

**Young Zhou**

Summer Student

**Sivisan Suntheralingam**

Summer Student

**(Max) Yuan Qi**

S RTP Student



## PRESENTATIONS AND INVITED LECTURES

### Dr. Janet Martin

Application of a policy framework for the public funding of drugs for rare diseases, AHRQ Forum, special supplement to Journal of General Internal Medicine, Boston, USA, July 2013.

Bias in Decision-Making & Strategies to Overcome,

- Visiting Professor, Vanderbilt University, Tennessee, USA, Feb 2014.
- Visiting Professor & Invited Speaker, Queen's University Medical School, CORE Rounds, Kingston, ON, Sept 2013.

Colloids vs Crystalloids: An Evidence-Based Review, Asian Society of Cardiac Anesthesia (ASCA), Singapore, SI, Oct 2013.

Decision-Maker Dilemmas, Invited Speaker, Harvey Club. London, ON, Feb 2014.

Decision-Making Frameworks for HTA: Lessons from the Real World, Special Lecture, MSc HTA students, Health Policy, Management & Evaluation (HPME) University of Toronto, Toronto, ON, May 2014.

Decision-Making: Combining Evidence + Ethics + "Everything else" in the Real World Setting, Visiting Professor, Vanderbilt University. Tennessee, USA, Feb 2014.

Disinvestment: Proposing a taxonomy for assessment, Knowledge Translation Day, KT Canada, Quebec City, QC, June 2014.

Erythropoietin: An updated meta-analysis for Cardiac Surgery, Invited Speaker, 32nd Annual Symposium: Clinical Update in Anesthesiology, Surgery and Perioperative Medicine, Nassau, Bahamas, Jan 2014.

Establishing A Network of Hospital/Regional HTA in Canada, Chair & Invited Speaker, Inaugural Pan-Canadian

Hospital-Based Health Technology Assessment Meeting, Ottawa, ON, Nov 2013.

Evidence Based Decision Making & Health Technology Assessment for Anesthesia & Surgery: Building a Centre of Excellence

- Invited Speaker, Special Panel & Poster Presentation, Ministry of Health and Longterm Care AFP Innovation Showcase **Toronto, ON** Nov 2013.
- Invited Speaker, 14th International Congress on Cardiovascular Anesthesia and European Association of Cardiothoracic Anaesthesiologists (ICCVA-EACTA), Florence, Italy, Sept 2014.
- Invited Workshop Co-Chair & Speaker, Canadian Anesthesiology Society Annual Meeting St. Johns, Nfld, June 2014.
- Co-Chair & Keynote Speaker, IARS Education Symposium, Montreal, QC, May 2014.

Evidence in Context: Hospital-Based HTA adds Significantly to Arms-Length HTA in Canada Invited Speaker, Health Technology Assessment International (HTAi), Washington, DC, June 2014.

[Evidence Informed Decision Making for Patients with Surgical Conditions in the Context of Ebola Virus Disease \(EVD\). Recommendations Planning Proposal Meeting, World Health Organization, Geneva, Switzerland, December 2014.](#)

Evidence-Based Decision-Making and Knowledge Translation in Perioperative Medicine, Update in Clinical Anesthesiology, Surgery and Perioperative Medicine

- Co-chair & presenter, Las Vegas, Nevada, Oct 2013.
- Biennial WHO GIEESC Meeting, World Congress of Surgery, Obstetrics, Trauma and Anesthesia, Trinidad & Tobago, Oct 2013.
- World Congress of Surgery & Obstetric Anesthesia, WHO GIEESC, Port of Spain, Trinidad & Tobago, Nov 2013.

- Invited Presenter: Clinical Update in Anesthesiology & Perioperative Medicine, Las Vegas, Nevada, Nov 2013.
- Speaker, 32nd Annual Symposium: Clinical Update in Anesthesiology, Surgery and Perioperative Medicine, Nassau, Bahamas, Jan 2014,

Getting from Evidence to Action using Know4Go in the Hospital Setting: HTA in the Real World, Special Workshop, McGill University Hospitals, Montreal, QC, Oct 2013.

[Health Economics: Can we Afford to Ignore It? Invited Speaker, 14th International Congress on Cardiovascular Anesthesia and European Association of Cardiothoracic Anaesthesiologists \(ICCVA-EACTA\), Florence, Italy, Sept 2014.](#)

Health Technology & Decision-Making within Limited Resources (Know4Go), Invited Speaker, Ministry of Health of Mexico, Mexico City, Mexico, July 2014.

HES in Cardiac Surgery: Is it time to abandon ship?

- Visiting Professor, Invited Speaker, Cardiac Surgery Rounds Kingston, ON, Sept 2013.
- Visiting Professor & Invited Speaker, Grand Rounds, Kingston General Hospital, Kingston, ON, Sept 2013.

High throughput Hospital Platform for Pragmatic RCTs of common interventions and policies: A vision but not yet a plan, 'Trials within Cohorts' Symposium 2014. London School of Hygiene & Tropical Medicine, London, UK, Nov 2014.

Hospital Based Health Technology Assessment

- Invited Speaker, CIHR Planning meeting for Hospital-Based HTA, Quebec City, QC, June 2014.
- Invited Speaker, Health Technology Assessment International (HTAi), Washington, DC, June 2014.



High throughput Hospital Platform for Pragmatic RCTs of common interventions and policies: A vision but not yet a plan, 'Trials within Cohorts' Symposium 2014. London School of Hygiene & Tropical Medicine, London, UK, Nov 2014.

Inhaled Nitric Oxide: An Updated Meta-Analysis Asian Society of Cardiac Anesthesia (ASCA), Singapore, SI, Oct 2013.

Know4Go: Do you know what you're missing? The Economist, London, UK, March 2014.

MCDA across the continuum of decision: feedback and reflection from the field Invited Speaker, Health Technology Assessment International (HTAi), Washington, DC, June 2014.

MEDICI: Getting Evidence to Practice for Health Technologies in the Hospital Setting, Convenor & Speaker, London EXCITE Meeting, London, ON, Sept 2013.

Multicriteria Decision-Making: Reflections from the perspective of the Policymaker in the MoH and the Hospital Settings, Invited Speaker, Health Technology Assessment International (HTAi), Washington, DC, June 2014.

Ontario Ministry of Health, monthly presentations on selected drug policy recommendations based on clinical & economic evidence review (full list is confidential until policy decisions are made public) Invited presentations (1-2 per month) to the Committee to Evaluate Drugs (CED) & Executive Officer to the Minister of Health, Ontario Ministry of Health & Longterm Care, Toronto, ON, Ongoing,

Perioperative Mortality: Trends in Developing and Developed Countries Biennial WHO GIEESC Meeting, World Congress of Surgery, Obstetrics, Trauma

and Anesthesia Trinidad & Tobago, Oct 2013.

Pro/Con Debate: I can live without colloid, Invited Speaker, 14th International Congress on Cardiovascular Anesthesia and European Association of Cardiothoracic Anaesthesiologists (ICCVA-EACTA), Florence, Italy, Sept 2014.

Quantifying the Opportunity Cost (Know4Go), Invited Speaker, Special Roundtable for the Hon. Minister Rona Ambrose Toronto, ON, Sept 2013.

Real World Cases – Let's put you in the decision-maker seat, Resident Education Day, London, ON, April 2014.

Volunen: A meta-analysis & recommendations for practice, Invited Speaker, 32nd Annual Symposium: Clinical Update in Anesthesiology, Surgery and Perioperative Medicine, Nassau, Bahamas, Jan 2014.

### Dr. Davy Cheng

61st Brazilian Congress of Anesthesiology, Society of Anesthesiology Annual Meeting. Recife, Brazil. 2014 Nov. Invited Lecturer.

- Vasoplegic Syndrome Post CPB [lecture], Blood Management Strategies in Cardiac Surgery - Drugs, Techniques and Procedures [lecture], Blood Coagulation Disorders After Extracorporeal Circulation – Physiopathology [lecture]

34th Annual Meeting of Japan Society for Clinical Anesthesia (JSCA). Tokyo, Japan. 2014 Nov. Invited Lecturer.

- Knowledge Translation and Outcome Research Impacting on Clinical Practice in 2014 [lecture]

International Chinese Academy of Anesthesiology (ICAA), Panel on Clinical Outcome Research (US, Canada, China). ASA Annual Meeting. New Orleans. 2014 Oct. Invited Panel Speaker.

- Clinical Outcome Research and Knowledge Translation [lecture]

ICCVA-EACTA Annual Meeting. Florence, Italy. 2014 Sep. Invited Plenary Speaker.

- Health Technology Assessment and Knowledge Translation - Evidence to Guidelines to Practice: the road less traveled. [congress opening lecture] Cardiac Recovery and Practice Guideline [lecture]

The China Heart Congress (CHC) 2014, jointly organized by Chinese Medical Association (CMA) & National Center for Cardiovascular Diseases (NCCD). Beijing, China. 2014 Aug. Featured Speaker.

- Knowledge translation- New evidence impacting you practice in 2014 [lecture]

40th Annual Refresher Course. Mexican College of Anesthesiology & Perioperative Medicine. Mexico City, Mexico. 2014 Jul. Invited Speaker.

- Preoperative assessment of CAD patients for Non-Cardiac Surgery: What is in and What is out? [lecture]
- Colloids vs Crystalloids: An Update on the State of the Evidence [lecture]
- Transcatheter Aortic Valve Implantation (TAVI) Surgery: Perioperative Management & Outcomes [lecture]

Annual Meeting, Sun City, South Africa. 2014 Mar. Invited Speaker.

- Your Role As An Interdisciplinary Leader [panel]

Patient Safety Symposium, CAS Annual Meeting. St. John's, Newfoundland. 2014 Jun. Invited Panel Speaker.

- Education/Interactive Evidence-Based Decision-Making, Health Technology Assessment & Knowledge Translation for Anesthesia and Perioperative Medicine (EBDM, HTA & KT) [symposium]

### Dr. Cheng's Invited Lectures (cont.)

IARS Annual Meeting, Montreal, Quebec. 2014 Jun. T. H. Seldon Memorial Lecture Speaker.

Global Challenges in Anesthesia: Are We Doing Enough? [lecture]

WFSA Symposium on Global Quality and Patient Safety. European Society of Anesthesiologists Annual Meeting. Stockholm, Sweden. 2014 May-Jun. Invited Symposium Chair  
Global Quality and Patient Safety [symposium]

IARS Education Symposium, Montreal, QC. 2014 May. Co-Chair and Speaker. Evidence-based decision-making and knowledge translation in health technology assessment [symposium]

Grand Rounds, The German Society of Anaesthesiology and Intensive Care Medicine (DGAI). Leipzig, Germany. 2014 May. Invited Speaker.

- Cardiac surgery & anesthesia: Past, present & future [lecture]

Visiting Professorship, Queen's University Anesthesiology Research Day, Kingston, ON. 2014 Apr.

- Knowledge translation - Evidence to guidelines to practice: the road less traveled [lecture]

Pan-Canadian Health Technology Collaborative & Ottawa Hospital Research Institute, CADTH. 2014 Apr. Invited

Speaker.

- The development of a Canadian top 10 list of new and emerging health technologies [panel]

SCA 36th Annual Meeting, Problem-Based Learning Discussion, New Orleans, LA. 2014 Mar. Invited Speaker.

- Navigating off-pump CABG surgery [PBLD lecture]

CASSA and SASA National Annual Meeting, Sun City, South Africa. 2014 Mar. Invited Speaker.

32nd Annual Symposium: Clinical Update in Anesthesiology, Surgery and Perioperative Medicine, Atlantis Paradise Island, Bahamas. 2014 Jan. Invited Speaker.

- Health technology & knowledge translation: Evidence to guidelines to practice [special lecture]

Ministry of Health and Long Term Care, AFP Innovation Showcase Presentation: Evidence-Based Decision Making & Health Technology Assessment for Anesthesia & Surgery: Building a Centre of Excellence. 2013 Nov. Invited Speaker.

Pan-Canadian Health Technology Collaborative and the Ottawa Hospital Research Institute, CADTH. 2013 Nov. Invited Speaker.

Pan-Canadian Network for Hospital Technology Assessment - Next Steps [lecture]



**Medical Evidence  
Decision Integrity  
Clinical Impact**

**Dr. Avtar Lal**

**2nd International Conference  
of Indian Society of Rational  
Pharmacotherapeutics,  
Dayanand Medical College  
Ludhiana, India, Feb, 2014**

Delhi Chapter of Indian Journal of Endocrinology and Metabolism, Delhi, India, Feb 2014.

Govt. Medical College and Hospital, Amritsar, India, Feb, 2014

Bangalore chapter of Endocrinology, Bangalore, India, Feb, 2014

Member of Advisory Board of a Journal Journal of Rational Pharmacotherapeutics Research. 2013 – Present.

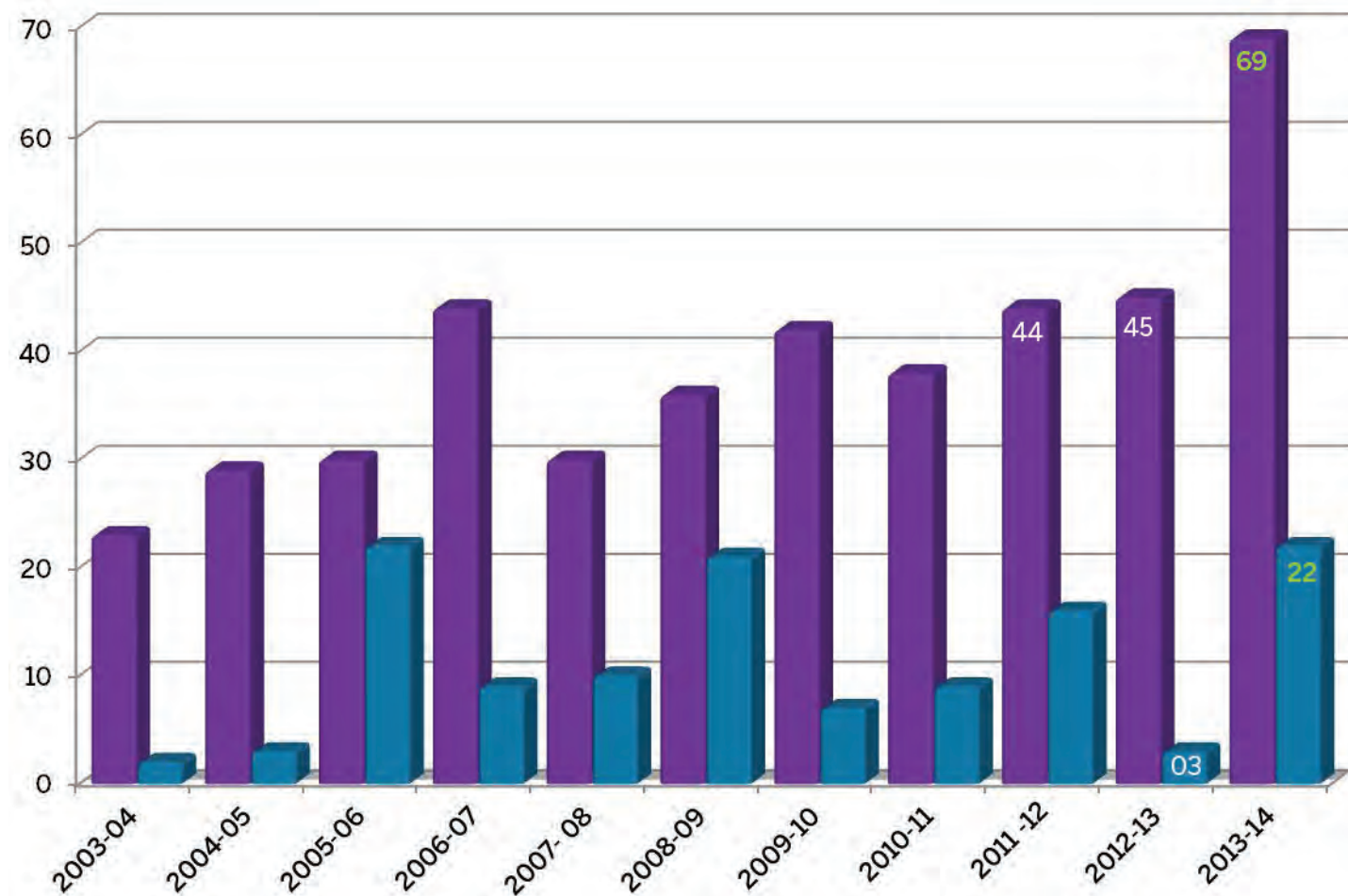


First edition of The Lancet (1823), at the Royal Society of Medicine (RSM), London, UK. Photo courtesy of Dr. Davy Cheng, RSM Fellow for 2014.

# Research and Academic Excellence

Publications, Grants and Funding

PEER-REVIEWED PUBLICATIONS PER ANNUM  
BOOKS AND BOOK CHAPTERS PER ANNUM





## Publications

### PEER-REVIEWED

- Acker MA, Parides MK, Perrault LP, Moskowitz AJ, Gelijns AC, Murkin J, et al. Mitral-valve repair versus replacement for severe ischemic mitral regurgitation. *N Engl J Med*. 2014 Jan 2;370(1):23-32.
- Adams C, Burns DJ, Chu MW, Jones PM, Shridar K, Teeff P, Kostuk WJ, Dobkowski WB, et al. Single-stage hybrid coronary revascularization with long-term follow-up. *Eur J Cardiothorac Surg*. 2014 Mar;45(3):438-42;discussion 442-3.
- Ahmed EO, Butler R, Norvick RJ. Failure-to-rescue rate as a measure of quality of care in a cardiac surgery recovery unit: a five-year study. *Ann Thorac Surg*. 2014 Jan;97(1):147-52.
- Arellano R, Nurmohamed A, Rumman A, Day AG, Milne B, Phelan R, Tanzola R. The utility of transthoracic echocardiography to confirm central line placement: an observational study. *Can J Anaesth*. 2014 Apr;61(4):340-6.
- Armstrong K. A primer on local anesthetics for plastic surgery. *Clin Plast Surg*. 2013 Oct;40(4):515-28.
- Bainbridge D, Chu MW, Kiaii B, Cleland A, Murkin J. Percutaneous vena cava drainage during minimally invasive mitral valve surgery: a randomized, crossover study. *J Cardiothorac Vasc Anesth*. 2014 Nov 7 [Epub ahead of print].
- Baloria KA, Dhir A, Pillai B, Selot N. Aortic dissection: To be or not to be? *Ann Card Anaesth*. 2013;16(2):126-8.
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- Pariser M, Clarke C. Analgesia for the high-risk patient [Chapter 14]. p. 191-213.
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- McFarling M, Bruni I. Vascular surgery [Chapter 23]. p. 346-364.
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Farah Manji, PGY4



Danielle Lapierre, PGY2

## LETTERS AND COMMENTS

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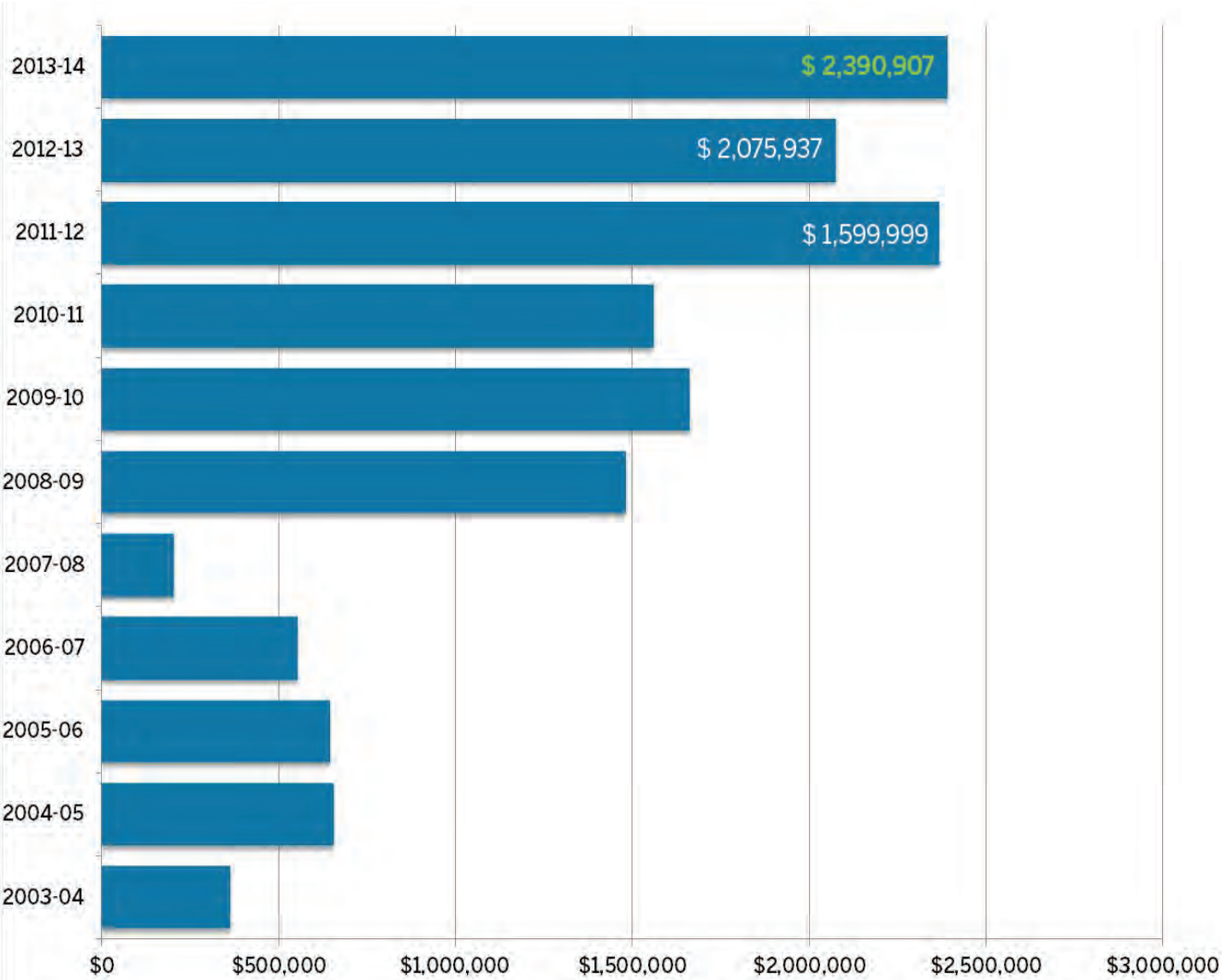
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# Grants & Funding

PEER-REVIEWED GRANTS PER ANNUM



## Grants and Funding

### PEER-REVIEWED

**Antoniou A, Al Beshir M, Thornley P, Gregor J, Khanna N.**

GI Internal Research Fund: Propofol vs. Conventional Sedation in Colonoscopy: A Non-Randomized Comparative Study.  
2013: \$5,000

**Bellingham G, Tawfic Q, Grewal R, Schulz V, Clarke C, Murkin J.**

Anesthesia Internal Research Fund: Near-Infrared Spectroscopic Measurement of Tissue Oxygen Saturation and the Vascular Occlusion Test During Immobilization, Carpal Tunnel Syndrome, and Pre- and Post- Stellate Ganglion Blockade for CRPS.  
2013-2015: \$8,100

**Crumley T, Cherry R, Antoniou A.**

Women's Development Council, London Health Sciences Centre: Multidisciplinary Crisis Resource Management Training using In-Situ High Fidelity Simulation.  
2013: \$9,900 [Year 3 of 3] of \$31,600.

**Dhir S, Sharma R**

Anesthesia Internal Research Fund: Incidence of hemidiaphragmatic palsy after single shot interscalene block for pain relief in shoulder surgery.  
2013-2015: \$10,000

**Ellis GE, Goldman D, Jackson D, Sharpe M, Tyni K.**

Canadian Institute of Health Research Grant (CIHR): A systems approach to sepsis: Pathological versus Adaptive Microvascular Responses  
2009 - 2013: \$128,566 [Year 5 of 5] of \$624,830

**Freedman, Ralley F, et al.**

MOHLTC OnTraC Program: Chart review of utilization of allogenic blood transfusion in high blood loss elective surgical procedures for ONTraC off-site database  
2005 – 2015: \$85,000 [Year 9 of 10] of \$850,000

**Gai N, Bainbridge D, Lavi R**

**Anesthesia Internal Research Fund: Patent foramen ovale and risk of postoperative delirium following elective hip and knee arthroplasty surgeries.**  
2014-2016: \$10,000

**Ganapathy S, Fichtinger G, Borschneck D, Jaeger M**

CIHR/NSERC Collaborative Health Research Projects: Perk Tutor: Ultrasound-guided Needle Placement Training Platform.  
2013-2016: \$109,240 [Year 2 of 3] of \$336,940

**Guo R, Ralley F, et al.**

Lawson Health Research Institute: Randomized clinical trial of immediate pre-operative erythropoietin on

acute kidney injury in cardiac surgery patients – a pilot study

2013 – 2014: \$35,000

**Harle C, Sischeck B, Cheng D, Nicolaou G, Jones P, Jansen S**

Anesthesia Internal Research Fund: A survey of the management of narcotics in the operating rooms of Canadian academic health sciences centres.  
2013-2015: \$5,500

**Hegazy A, Jones P, Champion L, et al.**

Anesthesia Internal Research Fund: Therapeutic hypothermia after PEA cardiac arrest, does it work? A case-control study.  
2013-2015: \$9,250

**John-Baptiste A, Cheng D, Martin J, Arellano R, Jones P**

Anesthesia Internal Research Fund: Clinical impact of disinvestment in hydroxyethyl starches for patients undergoing cardiac surgery.  
2014-2016: \$10,000

**Jones P**

Anesthesia Internal Research Fund: International Surgical Outcomes Study (ISOS).  
2014-2016: \$8,170

**Lingard L, Schulz V, et al.**

Canadian Institute of Health Research Grant (CIHR): Palliative Care on the Heart Failure Team: Mapping Patient and Provider Experiences and Expectations.  
2012-2014: \$116,024 [Year 2 of 2] of \$232,048

**Mack P, Quigley N, Lavi R, Lavi S, Rachinsky M & Shoemaker K**

Anesthesia Internal Research Fund: Regional changes in upper limb perfusion following brachial plexus block: a pilot study.  
2014-2016: \$10,000

**Martin J & Cheng D**

Schulich School of Medicine and Dentistry Dean's Research Grant Initiative: Transforming Early Successes into a Sustainable Program of Cross Departmental Health Technology Assessment, Evidence-Based Decision-Making, and Knowledge Translation.  
2012 – 2015: \$190,000 [Year 2 of 3] of \$570,000

**Martin C, Sharpe M, et al.**

Schulich Collaborative Research Seed Grant: Targeted Exercise Intervention to Reduce Morbidity in Sepsis.  
2013-2015: \$45,000 [Year 2 of 2]



**Morley-Forster P, St. Lawrence K, Clarke C, Davis K, MacIntosh B, Moulin D**

CIHR Operating Grant: Development of a Perfusion MRI Technique to Investigate Longitudinal Effects of Chronic Pain on Brain Function.

2011-2015: \$139,633 [Year 3 of 4] of \$558,534

**Purang A, Ganapathy S, Armstrong K, Rachinsky M**

CIHR Grant: Needle Guidance System for Neuraxial Analgesia and Anesthesia.

2011 – 2015: \$34,888 [Year 3 of 4] of \$139,554.

**Schlachta C, Cherry R, et al.**

ORF V Grant: Effective Systems for Procedure Specific Healthcare Simulation.

2010-2015: \$958,975 [Year 3 of 5] of \$4,794,875

**Schulz V**

AMOSO AFP Innovation Fund: Palliative Care on the Heart Failure Team: Mapping Patient and Provider Experiences and Expectations.

2012-2014: \$143,587 [Year 2 of 2]

**Sebbag I, Singh I & Qasem F**

Anesthesia Internal Research Fund: Efficacy of pulsatile pressure waveform presence to confirm correct placement of epidural needle in laboring pregnant patients: a prospective observational cohort study.

2014-2016: \$2,000

**Sharpe M**

Jesse & Julie Rasch Foundation: Vitamin C Therapy in Sepsis.

2011-2013: \$134,104 [Year 2 of 2]

**Sondekoppam Vijayashankar R, Ganapathy S, Uppal V, MacDonald S & Howard J**

Anesthesia Internal Research Fund: Ambulatory continuous adductor canal block to facilitate same day discharge following total knee arthroplasty: a pilot study.

2014-2016: \$9,500

**Sondekoppam Vijayashankar R, Ganapathy S, Uppal V, Brookes J, et al.**

Anesthesia Internal Research Fund: Comparison of Efficacy and Safety of Pericatheter Local Anesthetic Injection to Obturator Nerve Block When Combined with Subsartorial Saphenous Block for Anterior Cruciate Ligament Repair. A Randomized Double Blinded Study.

2013-2015: \$4,355

**Taneja R, Faden L & Lingard L**

Anesthesia Internal Research Fund: Advance care planning for critical care – a prelude to breaking barriers.

2014-2016: \$10,000

**Tawfic Q, Morley-Forster P, Railton C, Urquart B, Bellingham G**

Anesthesia Internal Research Fund: Low Dose Oral Ketamine Adjuvant Therapy in Chronic Pain Patients - A Pilot Study to Assess Safety.

2013-2015: \$10,000

**Tyml K, Sharpe M.**

A novel model of sepsis in the elderly: mechanism and treatment of microvascular dysfunction. Heart and Stroke Foundation of Ontario. 2012 - 2015: \$137,622 [Year 3 of 3]

**Vedagiri Sai R, Singh I, Jones P, Nguyen D, Adam R**

Anesthesia Internal Research Fund: Onset of Labour Epidural Analgesia with Low Dose Bupivacaine and Different Doses of Fentanyl: A Randomized Double Blinded Clinical Trial.

2013-2015: \$7,500

**Zhou R, Clarke C, Nicolaou G, Forbes T**

Anesthesia Internal Research Fund: Comparing Transcutaneous to Transdural Near-Infrared Spectroscopy for Detection of Regional Spinal Cord Ischemia in a Porcine Model.

2013-2015: \$3,993

**INDUSTRY GRANTS / NON-PEER REVIEWED**

**Bainbridge D, Murkin J**

ORNIM Medical: Intraoperative NIRS-based CBF in Comparison to TCD Cerebral Flow Velocity: A Correlation Analysis.

2013-Present: \$50,000



# Awards & Honours

## DR. LOIS CHAMPION RECEIVES PRESTIGIOUS SILCOX-FELLOWS AWARD FOR EXCELLENCE IN UNDERGRADUATE MENTORING

Oct 2013: Dr. Champion, who works in Critical Care Anesthesia, was one of 10 dedicated Schulich faculty members recognized this month by Learner Equity & Wellness for their ongoing commitment to providing mentorship to undergraduate medical students.

The 10 year award, known as the Silcox-Fellows Award, is given to physician mentors who have devoted 10 years of their time as part of the Schulich Medicine Mentorship Program. This is a voluntary program where interested students have a mentor to guide them as they progress in their development as medical professionals. Mentors provide general career advice, encouragement and help students to understand the role they are taking on and how that role may impact their lives.

## DEPARTMENT CHAIR AND CHIEF, DR. DAVY CHENG, HONOURED WITH CCPE CREDENTIALS

Jun 2013: Developed by the Canadian Medical Association (CMA) and the Canadian Society of Physician Executives (CSPE), the CCPE credential is designed to recognize and advance physician leadership and excellence through a national, peer-generated, standards-based assessment process.

Physicians awarded the CCPE have demonstrated that they have the leadership capabilities, knowledge and skills needed for successful performance and, more important, to direct, influence and orchestrate change in Canada's complex health care system.

## DEPARTMENT CHAIR AND CHIEF DR. DAVY CHENG RECEIVES PRESTIGIOUS 2014 CSPE EXCELLENCE IN MEDICAL LEADERSHIP AWARD, ALSO KNOWN AS THE CHRIS CARRUTHERS AWARD

Mar 2014: "Dr. Cheng is a leader in his field. However, my reason for nominating him [for this award] is his demonstrated leadership ability and commitment to the development of other physician leaders. Dr. Cheng was recruited as the academic chair at Western University and

the hospital chief for both London Health Sciences Centre and St. Joseph's Health Care London. At the time of his recruitment there were three very distinct anesthesia business groups.

***"Through his persistent leadership and vision, London now has a cohesive anesthesia department. Dr. Cheng set the standards, both clinically and behaviourally, and held department members accountable."***

Dr. Cheng received his CCPE in 2013. He has identified leaders within the department and supported their leadership development through leadership courses and strategic leadership opportunities. He has also nurtured young leaders in the department, supporting their involvement in the Professional Staff Organization by managing their clinical commitments. He is an exceptional leader in developing himself and others."

*Gillian Kernaghan, MD, CCFP, FCFP*

*President and CEO*

*St. Joseph's Health Care London, Ontario*

## DR. DAVY CHENG IS ELECTED TO GERMAN SOCIETY OF ANAESTHESIOLOGY AND INTENSIVE CARE MEDICINE (DGAI) AS 2014'S HONORARY MEMBER

May 2014: The DGAI annually elects one honorary member to its society. The candidate is chosen for their exemplary clinical, research and academic contributions to the current field of Anesthesiology and Intensive Care Medicine, and to this field's future advancement.

Since its induction in 1953, Dr. Davy Cheng is the second Canadian to be named as an honorary member. Dr. Cheng now joins fellow honorary member and Canadian, Dr. David Richard Beven (appointed in 1998).





**Dr. Arif Al-Areibi and CAS President,  
Dr. Patricia Houston**

#### **DR. ARIF AL-AREIBI RECEIVES 2014'S JOHN BRADLEY YOUNG EDUCATOR AWARD**

Jun 2014: The award shall be given to an Active member of the CAS within his/her first 10 years of practice who has made significant contributions to the education of students and residents in anesthesia in Canada.

Dr. Arif Al-Areibi is currently an Assistant Professor in the Department of Anesthesia and Perioperative Medicine (Department). As of July 2014, he will begin his new role as Director of the Department's Postgraduate Education Program.

**Dr. Al-Areibi has received numerous awards for excellence in teaching, and was named Postgraduate Teacher of the Year by the Department from 2009-2012.**



**Dr. Geoff Bellingham**

#### **DR. GEOFF BELLINGHAM, PROGRAM DIRECTOR FOR THE NEWLY ESTABLISHED PAIN MEDICINE RESIDENCY PROGRAM, RECEIVES THE 2014 ST. JOSEPH'S MAC AWARD**

Dr. Geoff Bellingham is the recipient of the St. Joseph's MAC Award, for recently demonstrating qualities of leadership and providing outstanding contributions to the success of initiatives aligning with the strategic directions of St. Joseph's.

A quote from his nomination

*"Dr. Bellingham was nominated by his colleague physicians and administrators directly involved with the St. Joseph's Chronic Pain program, for his outstanding contributions to the development of the inaugural Pain Medicine Residency in Canada at Western University. Dr. Bellingham clearly exhibits the MAC award criteria: lead with integrity, motivate to excellence, achieve results, perform exceptionally, communicate effectively, facility improvement, commit to innovation and growth, and support a shared vision through his success as "the Founder of the Inaugural Pain Medicine Residency Program in Canada"*

## POSTGRADUATE TEACHER OF THE YEAR

2011-2012: Dr. Arif Al-Areibi

2012-2013: Dr. Rooney Gverzdys

2013-2014: Dr. Rooney Gverzdys

## UNDERGRADUATE TEACHER OF THE YEAR

2011-2012: Dr. Collin Clarke

2012-2013: Dr. Michelle Gros

2013-2014: Dr. Peter Lindsay

## FELLOWS TEACHER OF THE YEAR

2011-2012: Dr. Su Ganapathy

2012-2013: Dr. Ramiro Arellano

2013-2014: Dr. Ramiro Arellano



# Faculty Roles & Academic Outreach

**Dr. Ahmad, Mohamad**  
**Associate Professor**

**Director of Pediatric Anesthesia**

Anesthesia Pediatric to Adult Care Transition Task Force. London Health Sciences Centre. Member. 2012 – Present.

**Dr. Al-Areibi, Arif**  
**Assistant Professor**

**Director of Postgraduate Education, as of July 2014**

CAN-AM Clinical Anesthesia Conference. Conference Co-Chair. 2012 - Present.

Department of Anesthesia & Perioperative Medicine, Western University.

- Chronic Pain Residency Committee. Member. 2013-2014.
- Pediatric Anesthesia Group. Member. 2009 – Present.
- Resident Academic Half-Day Coordinator. 2011 - 2014.

**Dr. Alhashemi, Jamal**  
**Associate Professor**

**Dr. Antoniou, Andreas**

**Assistant Professor**

Department of Anesthesia & Perioperative Medicine, Western University.

- Anesthesia Undergraduate Simulation Program. Coordinator. 2011 – Present.
- Resident Academic Half-day. Co-Coordinator. 2012 Feb – Present.

London Health Sciences Centre.

- Anesthesia and Obstetrics Interdisciplinary Simulation Program. Coordinator. 2013 – Present.
- Procedural Sedation Guidelines Committee. 2012 Aug – Present. Member.

St. Joseph's Health Care London. Pharmacy and Therapeutics Committee. Member. 2011 – Present.

**Dr. Arango, Miguel**

**Associate Professor**

**Director of Neuroanesthesia and Fellowship Education Program**

Confederacion Latinoamericana de Sociedades de Anestesiologia. Committee Member. 2012 – Present.

Faculty of 1000. Medicine Editorial Board for Critical Care and Emergency Medicine. Member. 2004 – Present.

Latin American Brain Injury Consortium. Committee Member. 2012 – Present.

Latin American Congress of Anesthesia . Scientific Committee and Advisory Board for the Neuroanesthesia Module. Member. 2007 – Present.

Columbian Society of Anesthesiology Neuroanesthesia and Neurocritical Care Committee. Founder and Member. 2004 – Present.

**Dr. Arellano, Ramiro**

**Associate Professor**

**Site Chief, University Hospital**

Department of Anesthesia & Perioperative Medicine, Western University.

- Academic Affairs Committee.
- Cardiac Fellowship Coordinator
- Postgraduate Education Committee

**Dr. Armstrong, Kevin**

**Associate Professor**

**Director of Regional Anesthesia and Acute Pain**

Department of Anesthesia & Perioperative Medicine, Western University.

- Academic Affairs Committee. Chair. 2009 – Present.
- City-wide Acute Pain Service. Director. 2008 – Present.
- Department Council. Member. 2011 – Present.

Schulich School of Medicine & Dentistry, Western University. Mentoring Committee. Member. 2011 – Present.

**Dr. Armstrong, Paidrig**

**Associate Professor**

St. Joseph's Health Care London.

- Medical Emergency Response Committee. Member. 2003 – Present.
- Physician Assistant Site Coordinator. 2012 – Present.
- Postgraduate Education Committee. Member. 2012 – Present.



**Dr. Bainbridge, Daniel**

**Associate Professor**

**Director of Cardiac Anesthesia**

AMOSO Innovation Fund Committee. Member. 2012 – Present.

Canadian Anesthesiologists' Society. Annual Meeting Committee. Chair. 2012 – 2016.

Department of Anesthesia & Perioperative Medicine, Western University. Departmental Research Committee. Member. 2011 – Present.

London Health Sciences Centre

- City-wide Minimally Invasive Surgery (MIS) Committee. Member. 2008 – Present.
- University Hospital. Cardiac Surgery Recovery Unit (CSRU) Steering Committee. Member. 2003 – Present.
- University Hospital Transcatheter HV Steering Committee. Member. 2009 – Present.

**INVITED LECTURES**

31st and a half symposium: Clinical Update in Anesthesiology, Surgery & Perioperative Medicine. 2013 Oct. Las Vegas, NV. Invited Lecturer & Instructor.

- Minimally invasive and robotic procedures [lecture]
- Perioperative echocardiography [lecture]

Asian Society of Cardiothoracic Anesthesiologists (ASCA) 10th Annual Meeting. Singapore. 2013 Oct. Instructor. Echocardiography for TAVI [workshop]

**Dr. Banner, Robert**

**Adjunct Professor**

**Dr. Batohi, Pravin**

**Associate Professor**

St. Joseph's Health Care London. 2012 – Present.

- Professional Staff Organization. Chair
- Undergraduate Site Coordinator

**Dr. Bellingham, Geoff**

**Assistant Professor**

**Director of Postgraduate Pain Medicine**

Department of Anesthesia & Perioperative Medicine, Western University

- Academic Affairs Committee. Member. 2010 – Present.
- Chronic Pain Fellowship. Subspecialty Education Coordinator. 2012 Jul – Present
- Quality Assurance Committee. Member. 2010 – Present.

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**Dr. Bhandari, Rakesh**

**Associate Professor**

Department of Anesthesia and Perioperative Medicine, Western University: Acute Pain Service for UH. Coordinator. 2013 - Present.

**INVITED LECTURES**

Indian Medical Association. Indore, India. 2013 Dec. Visiting Professor

- Politics and Economics of Health Care in Canada [lecture]

**Dr. Block, Gary**

**Associate Professor**

**Dr. Borger, Jonathan**

**Assistant Professor**

**Dr. Briskin, Alexander**

**Associate Professor**

Director of Windsor Anesthesia Training Program

**Dr. Brookes, Jonathan**

**Assistant Professor**

Department of Anesthesia & Perioperative Medicine, Western University.

- Pain Medicine Residency Committee. 2014 - Present.
- Quality Assurance Committee. Member.
- Undergraduate Education Committee. Member.

**Dr. Bruni, Ida**

**Assistant Professor**

Department of Anesthesia & Perioperative Medicine, Western University

- Annual ENT Bootcamp Instructor. 2013- Present.
- Resident Mentor

**INVITED LECTURES**

Cutting Edge Lecture Series: Current Advancements in Surgery.

**Dr. Butler, Ron**

**Associate Professor**

**Director of Critical Care and Cardiac Surgical Recovery Unit**

Department of Anesthesia & Perioperative Medicine, Western University.



- Anesthesia Associates Practice Plan Financial Committee. Member
- Department Council. Member. 2002

#### London Health Sciences Centre (LHSC)

- Critical Care Executive Committee. Member.
- Critical Care Joint Council. Member
- Critical Care Program Members Committee. Member.
- CSRU Committee. Chair
- Joint Professional Staff HR Committee. Member.
- MSICU Consultants Group. Member.
- Quality Workplace Committee. Member.
- Residency Training Committee. Member. 1999 – Present.

#### **Dr. Cave, Anita**

##### **Assistant Professor**

#### **Dr. Champion, Lois**

##### **Professor**

Department of Anesthesia and Perioperative Medicine, Western University: Postgraduate Education Program

- Critical Care Academic Coordinator. 2011 June – Present
- Junior Resident Coordinator

Department of Medicine, Western University: Diagnostic and Therapeutics Rounds / Critical Care. Rounds Coordinator for University Hospital.

London Health Sciences Centre, University Hospital.

Antimicrobial Committee. Member.

2010 – Present.

- Infection Control Committee. Member.
- Intensive Care Unit Collaborative Practice Committee. Member.
- Intensive Care Unit Management Committee. Member.
- Medication Safety Committee. Member.
- Pharmacy and Therapeutics Committee. Member. 1992 – Present.

#### Medical Council of Canada

- Qualifying Exams Part II Committee. Deputy Registrar. 1999 – Present.
- Research Subcommittee. Member. 2000 – Present.

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

##### **Department Chair and Chief, and Distinguished University Professor**

Association of Canadian University Departments of Anesthesia (ACUDA).

- Past President 2014-2015
- President. 2011 – 2014

#### Canadian Anesthesiologists' Society

- Editor-In-Chief Selection Committee (CJA) - 2013
- Board of Directors. Board Member. 2011 – 2014
- Professional Specialty/Section Team. 2012 – Present

Canadian Network for Environmental Scanning in Health (CNESH): Member. 2011 – 2014.

Canadian Perianesthesia Clinical Trials Network (PACT) Steering Committee: Committee Member. 2010 – 2013

POISE-2 Trial : External Safety and Efficacy and Monitoring Committee (ESEMC). Member. 2010 – 2014

International Anesthesia Research

#### Society (IARS)

- Board of Trustees Executive Committee, Treasurer 2013-Present
- Board of Trustees Executive Committee. Secretary. 2011 – 2013.
- Scientific Program Committee. Co-Chair. 2009 – 2011; International Advisor. 2011 – Present.

London Health Sciences Centre (LHSC) / St Joseph's Health Care London (SJHC)

- Surgery Clinical Strategy Steering Committee, Clinical Services Renewal. 2013 - Present
- Critical Care Western Fellow Scholar Project Program. Co-Leader. 2014 - Present
- Canadian Surgical Technologies and Advanced Robotics (CSTAR) Education Committee. Member. 2007 – Present.
- Patient Centred Care Surgery Portfolio Committee. Member. 2012 – Present.
- Pediatric Care Steering Committee. Member. 2010 – Present.
- Predictive Care Steering Committee. Committee Member. 2010 – Present.
- Medical Advisory Committee. Executive Committee. Member. 2011 – Present.
- Talent Management Strategy Steering Committee. Committee Member. 2010 – 2014

Ministry of Health and Long Term Care (MOHLTC)

- Ontario Blood Advisory Committee (OBAC). Chair 2012 - Present.
- ONTraC Blood Management Program. Steering Committee Member. 2009-2013

[continued, Dr. Davy Cheng]

- Innovation Fund Provincial Oversight Committee. Member. 2014-Present

OMA Anesthesia representative on Expert Advisory Panel to MOHLTC on appropriate utilization of pre-operative assessment for elective surgeries, Health Quality Ontario.

Society of Cardiovascular Anesthesiologists (SCA)

- Board of Directors. 2013-Present
- CME Committee. Ad hoc (international) Member. 2014-Present
- International Committee. Chair. 2013-Present
- International Committee. Vice-Chair. 2007-2013
- Annual Scientific Program Committee (Annual Meetings in New Orleans 2014, Washington DC 2015). 2013-2015

International Congress of Cardiovascular Anesthesia (ICCA) & European Association of Cardiothoracic Anaesthesiologists (EACTA): Scientific Programme Organizing Committee (Florence 2014). 2013-2014

Asian Society of Cardiothoracic Anesthesiology (ASCA)

- Honorary Board Member. 2010 – Present.
- Pre-congress Cardiothoracic and Vascular Symposium (WCA 2016 Hainan, China) Organizing Committee. Advisor. 2012 – 2016.

Schulich School of Medicine & Dentistry (SSMD) & Western University

- Distinguished University Professor Selection Committee. Member. 2014-Present
- Schulich Interfaculty Program in Public Health (MPH) Selection

Committee. Member. 2013

- Senior Leadership Council. Member. 2012-Present
- Governing Committee & Resource Sub Committee, Academic Medical Organization of Southwestern Ontario (AMOSO). Member. 2012-Present
- Schulich International Simulation Task Group. Member. 2012-Present
- Clinical Chairs Committee. 2012-Present
- MEDICI Centre (Medical Evidence, Decision Integrity, Clinical Impact). Medical Director & Co-Founder. 2011-Present
- Knowledge Translation and Health Policy Steering Committee. Committee Member. 2011 – 2013

Canadian Perianesthesia Clinical Trials Network (PACT): Steering Committee. Member. 2011 - 2013

Management of Myocardial Infarction After Non-Cardiac Surgery (MANAGE) Trial : External Safety and Efficacy and Monitoring Committee (EEMC) - 2012-present

World Federation of Societies of Anesthesiologists (WFSA)

- Scientific Affairs Committee. Elected North American Representative. 2012 – Present.
- World Congress Circulation Scientific Sub-Committee. Chair. 2012-2016

World Health Organization (WHO)

- WHO GIEESC Rapid Review Surgical Guidelines for EVD Patients. 2014-Present
- WHO GIEESC (Global initiatives Essential Emergency Surgery Care) Anaesthesia Committee for Health Systems Strengthening. 2013-Present
- WHO GIEESC Research &

Publications Committee. 2013-Present

Canadian Cardiovascular Society (CCS) : Secondary Panel of the Guideline on Perioperative Assessment of Non-Cardiac Surgery. Member. 2013-2014

Canadian Academy of Health Sciences (CAHS): CAHS Fellowship Selection Committee. Member. 2013-Present

Association of Cardiac Anesthesiologists (ACA): Treasurer. 2013-Present

#### **HONORARY & INVITED MEMBERSHIPS**

- The German Society of Anaesthesiology and Intensive Care Medicing (DGAI). 2014-Present
- International Chinese Academy of Anesthesiology (ICAA). 2014-Present
- Chinese American Society of Anesthesiologists (CASA). 2014-Present
- International Advisory Committee, Royal College of Physicians and Surgeons (RCPSC). 2009-2014
- Association of Cardiac Anesthesiologists

**Dr. Cherry, Richard**

**Associate Professor**

**Director of Anesthesia and Critical Care Teaching Through Simulation**

Department of Anesthesia & Perioperative Medicine, Western University

- Postgraduate Education Committee. Member. 2002 – Present.
- Simulation Fellowship Program. Coordinator.

London Health Sciences Centre

- Residency Program. IT Coordinator.
- CSTAR Simulation Committee. Chair. 2009 – Present.
- Women and Children's Simulation Steering Committee. Member.

Royal College of Physicians and Surgeons of Canada.

- Anesthesia Examination Committee. Director of Exam Technologies and Simulation.
- CanNASC Committee, for the implementation of standardized simulation curriculum. Member.

Schulich School of Medicine & Dentistry, Western University.

- Associate Dean of Continuing Medical Education. 2014-2019
- Department of Medicine: Chair Selection Committee. Member.
- Globalization, Internationalization and Simulation Committee. Member.
- Undergraduate Education Simulation Curriculum Advisory Committee. Member.
- Undergraduate Education Simulation Infrastructure Advisory Committee

**Dr. Chui, Jason**

**Assistant Professor**

**Dr. Church, Brian**

**Associate Professor**

**Dr. Clarke, Collin**

**Assistant Professor**

Canadian Anesthesiologists' Society: Chronic Pain Section. Deputy Chair. 2012 – Present.

Department of Anesthesia and Perioperative Medicine, Western

University.

- Academic Affairs Committee. Member. 2012 – Present.
- Pain Medicine Residency Program. Interventional Coordinator. 2012 – Present.
- Medical Advisory Committee, St. Joseph's Health Care London. Vice Chair. 2012 – Present.

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**Dr. Connolly, Enda**

**Assistant Professor**

**Dr. Craen, Rosemary**

**Associate Professor**

Canadian Anesthesiologists' Society. Scientific Affairs Sub-committee. Member. 2012 – Present.

Department of Anesthesia & Perioperative Medicine, Western University.

- Site Specific Resident Coordinator - University Hospital. 2008-present.

London Health Sciences Centre

- Post-Anesthetic Care Unit. Anesthesia Liaison. 2002 – Present.

Schulich School of Medicine & Dentistry, Western University

- Admissions Committee. Member. 2009 – Present
- Examiner for Clinical Methods OSCE. 2000 – Present.
- Faculty of Medicine. Candidacy Interviews. Interviewer. 1997 – Present.
- Postgraduate Education Committee. Member. 2009 – Present.

**Dr. Cuillerier, Daniel**

**Associate Professor**

**Dr. Dhir, Achal**

**Associate Professor**

**Director of Transplant Anesthesia**

Annals of Cardiac Anesthesia. Editorial Board Member. 2012.

Department of Anesthesia and Perioperative Medicine.

- Liver Transplant Program. Director and Fellowship Coordinator. 2012 – Present.
- Site Specific Rounds Coordinator. 2005 – Present.

Ontario Medical Association. Scientific Program. Chair. 2013-Present

Schulich School of Medicine and Dentistry, Western University: Global Research Opportunities in Health (GROH). Facilitator and Advisor. 2006 – Present.

London Health Sciences Centre.

- Renal Transplant Committee. Member. 2005 – Present.
- University Hospital Operating Room Committee. Member. 2002 – Present.

**INVITED LECTURES**

Transplant Anesthesia. 2014 Jan.

Cardiomyopathies and Heart Failure. 2014 May. •

ISACON (Indian Society of Anesthesia Annual Meeting). Guwahati, Assam, India. 2013 Dec. Invited Speaker & Workshop Demonstrator.

- Coagulopathy of CLD – Implications for non-hepatic surgery [lecture]
- Assessment of the Aortic Valve [lecture]
- Basic TEE examination & 20 cross-sectional ASA/SCA views [lecture]

**Dr. Dhir, Shalini****Associate Professor**

Canadian Anesthesiologists' Society.

- Annual Meeting Committee. Core Member. 2012 – present.

CAS 2014, Conference. Regional Anesthesia Section, Chair.

- Regional Anesthesia Section. Secretary. 2014 – 2015.

London Health Sciences Centre. University Hospital Operating Room Committee. Member. 2002 – Present.

St. Joseph's Health Care London

- Acute Pain Management Service Group. Member. 2006 – Present.
- Regional Anesthesia Group. Co-ordinator. 2008 – Present.

**INVITED LECTURES**

2014 CAS Annual Meeting. St. John's, Newfoundland. 2014 Jun. Invited Lecturer: Best Papers of 2012-2014 [lecture].

Department of Anesthesia, Penn State University. 2014 May. Invited Lecturer: New Anticoagulants: where do we stand today [lecture].

ISACON (Indian Society of Anesthesia Annual Meeting). Guwahati, Assam, India. 2013 Dec. Invited Lecturer & Workshop Demonstrator.

- Ask the experts: Basics of ultrasound [workshop]
- Local anesthetics: Past, Present and Future [lecture]
- Ultrasound basics: Technical considerations [lecture]
- Ultrasound-guided regional anesthesia [workshop]

**Dr. Dobowski, Wojciech****Associate Professor**

London Health Sciences Centre. University Hospital Operating Room Committee. Member. 2002 – Present.

**Dr. Fantillo, Vanessa****Assistant Professor**

Department of Anesthesia and Perioperative Medicine, Western University. Pediatric Resident Teaching. Coordinator. 2011 – Present.

London Health Sciences Centre

- Clinical Services Renewal. 2013 – Present.
- Join Medical Affairs Committee. PSO Representative. 2013 – Present
- PCCM PGE Committee. Member. 2013 – Present.
- Professional Staff Organization. Vice President. 2014 – Present.

Western University, Future Leaders of Western Program. Member.

**INVITED LECTURES**

CPAS Meeting. Toronto, ON. 2013 Nov. Invited Speaker: Unusual outcome in a usual case [lecture]

**Fuller, John****Professor**

Canadian Ambulatory Anesthesia Research and Education (CAARE) Group. Committee Member. 2009 – Present.

Critical Care Trauma Centre, Victoria Hospital (LHSC).

- Awards Committee. Member
- Call Models Working Group. Member.

Department of Anesthesia and

Perioperative Medicine, Western University.

- Continuing Medical Education Committee. Member.
- Obstetric Anesthesia Research Committee. Member.
- Obstructive Sleep Apnea Policy Working Group. Member.

London Health Sciences Centre: Critical Care Division

- Critical care Residency Program. Member. 2005 – Present.
- EPO/OPS Study Safety Board. Member. 2009 – Present.
- Finance Committee. Member. 2011 – Present.
- Program Committee. Member. 2002 – Present.

London Health Sciences Centre

- Defibrillator Renewal Working Group. Member.
- Operating Room Executive Committee. Member. 2007 – Present.
- Maternal Emergency Response (Post M2P2). Member.
- Medical Advisory Committee: Leadership Subcommittee. Member.
- Ultrasound Interest Group. Member.

Royal College of Physicians and Surgeons of Canada.

- Corporate Affairs Committee. Member. 2006 – Present.
- Committee. Member. 2011-present.

Schulich School of Medicine & Dentistry, Western University

- Postgraduate Policy Renewal Committee. Member. 2011-present.



- Undergraduate/Postgraduate Awards Committee. Member. 2012-present.
- Postgraduate appeals committee, Chair

St. Joseph's Health Care London. Perioperative Care Medical Director. 2012- Present.

- Medical Emergency Response Committee (MERC). Member. 2005 – Present.
- Medical Emergency Response Sub-committee: Two-tiered response planning. Chair. 2011 – Present.
- Medical Emergency Response Team. Chair. 2003 – Present.
- Operating Room Executive Committee. Alternate Chair. 2006 - Present.
- Perioperative Grand Rounds. Organizer.
- Preadmission Improvement Committee, Co Chair. Member. 2004 – Present.
- Step-Up Care Unit. Medical Director.

#### INVITED LECTURES

Schulich School of Medicine & Dentistry, Western University. 2013 Dec. Workshop Organizer & Lecturer.

- Teaching in a Clinical Setting [faculty development workshop]

**Dr. Ganapathy, Sugantha**  
**Professor**

**Director of Regional Anesthesia and Acute Pain Service**

Department of Anesthesia & Perioperative Medicine, Western University. 2012 – Present. Member

- Acute Pain Committee
- Research Committee

Orthopedic Anesthesia Pain Rehabilitation Society. 2012 – Present. Board Member.

#### INVITED LECTURES

10th Annual Pre-ASA Meeting of OAPRS/SAGA. San Francisco, CA. 2013 Oct. Workshop Chair.

- Ultrasound Workshop [workshop]

ASA Annual Meeting. San Francisco, CA. 2013 Oct. Panel Member & Invited Speaker.

- Role of regional anesthesia for early rehabilitation and recovery following trauma [panel and lecture]

**Dr. Gordon, Neil**  
**Adjunct Professor**

**Dr. Granton, Jeff**  
**Associate Professor**

Association of Canadian University Departments of Anesthesia (ACUDA). Education Committee. Member. 2009 – Present.

- Canadian Critical Care Society (CCCS). Education Director and Board Member.
- National Anesthesia Representative. 2004 – Present.
- Residents Day and Forum. Co-Chair and Organizer. 2007 – Present.

College of Physicians and Surgeons of Ontario. On-site assessor for Adult Critical Care and Anesthesia. 2011

Department of Anesthesia & Perioperative Medicine, Western University: Department Council. Member. 2010 – Present.

London Health Sciences Centre. Critical Care Division

- Cardiac Surgery Recovery Unit. Education Director.

- Finance Committee. University Hospital. Member. 2006 – Present.
- ICU Education and Research Committee. Physician Representative. 2010 – Present.
- Medical/Surgical Intensive Care Unit. Education and Research Committee. Physician Representative. 2010 – Present.
- Quality Improvement for Medical/Surgical Intensive Care Unit. University Hospital Coordinator. 2005 – Present.
- Resident Training Committee: University Hospital. Member. 2006 – Present.
- Transfusion Practices Committee (LHSC and ST. Joseph's). Critical Care Representative. 2006 – Present.

Royal College of Physicians and Surgeons of Canada

- Anesthesia Speciality Committee. Western Program Representative. 2009 – Present.
- Critical Care Speciality Committee. Canadian Critical Care Society Representative. 2010 – Present.

Western University Schulich School of Medicine and Dentistry

- Critical Care Western Residency Training Committee. Committee Member
- Postgraduate Education Committee. Chair. 2010 – Present.

**Dr. Gros, Michelle****Associate Professor****Director of Undergraduate Education**

Department of Anesthesia & Perioperative Medicine, Western University.

- Undergraduate Education (UGE). Victoria Hospital Coordinator.

London Health Sciences Centre.

- Quality Assurance City-wide Committee. Member. 2010 – Present.
- Sleep Apnea Committee. Chair. 2012 – Present.
- UGE Surgical Education Committee. Member. 2011 – Present.

Royal College of Physicians and Surgeons of Canada: Postgraduate Education Program. Examiner. 2012 – Present.

Schulich School of Medicine & Dentistry, Western University. Clerkship and Electives Committee (CEC). Member. 2013 – Present.

**Dr. Gverzdys, Rooney****Associate Professor**

The Kuwait Institute of Medical Specialization (KIMS). Examiner in Anesthesia, and Representative of the Royal College International.

Department of Anesthesia and Perioperative Medicine, Western University.

- Postgraduate Education Committee. Member.
- Victoria Hospital: Site Coordinator for Anesthesia Residents

**Dr. Harle, Christopher****Associate Professor**

Department of Anesthesia and Perioperative Medicine, Western University.

- Anesthesia Associates Practice Plan, Financial Management Committee. Vice Chair.
- Department Council. Member.
- Quality Assurance Committee. Member.

University Hospital, LHSC

- Central Line Working Group. Member
- Donor Management Committee. Member
- Perioperative Blood Conservation Program. Member.
- Perioperative Site Committee. Member.
- LHIN: Southwestern Ontario Hip Fracture Improvement Committee. Member. 2012

**Dr. Hegazy, Ahmed****Assistant Professor****Dr. Herrick, Ian****Associate Professor****Director of Continuing Medical Education****Director of Quality Assurance**

Association of Canadian Academic Departments of Anesthesia (ACUDA), Continuing Education and Professional Development Committee. 2008 – Present.

Department of Anesthesia and Perioperative Medicine, Western University.

- Audit Group: Hypothermia Management. Co-Chair.

- City-Wide Anesthesia Quality Assurance Committee. Chair. 2008 – Present.
- Continuing Medical Education Program. Director.
- OSA Policy Working Group. Co-Chair.

London Health Sciences Centre (LHSC).

- Citywide Credentials Committee. Member.
- Citywide Professional Staff and Human Resources Committee. Member.
- Quality and Patient Safety Committee. Member. 2011 – Present.
- Office of the Chief Coroner of Ontario, Patient Safety Review Committee. Toronto, ON. 2007 – Present.

Schulich School of Medicine and Dentistry, Western University.

- Conditions for Appointment – Role Model, Leadership and Contributions Review Committee. Member.
- Continuing Medical Education Advisory Committee (ACCME). 2008 – Present.

Thames Valley Hospitals. HUGO (Healthcare Undergoing Optimization) Physician Advisory Committee. 2012 – Present.

**Dr. Hoogstra, Jason****Associate Professor**

Department of Anesthesia & Perioperative Medicine, Western University

- Victoria Hospital, London Health Sciences Centre. City-wide Equipment Coordinator. 2011 – Present.

- Undergraduate Education Coordinator. 2007 – Present.
- London District Academy of Medicine. Vice President. 2007 – Present.

London Health Sciences Centre.

- Anesthesia Technical Advisory Group. Member.
- City-wide Laser Safety Committee. Member.
- New Technology Assessment Team (University Hospital). Member.
- New Technology Assessment Team (Victoria Hospital). Member.

#### **Dr. Iglesias, Ivan**

##### **Associate Professor**

Department of Anesthesia and Perioperative Medicine, Western University. 2012.

- Resident Airway Coordinator (UH).
- TEE Program. Specialty and Site Specific Rounds Coordinator.
- Undergraduate Education Program. Citywide Director.

Schulich School of Medicine and Dentistry, Western University.

- Resuscitation Medicine Elective (4th year). Course Coordinator.
- Undergraduate Medical Education, Clerkships and Electives Committee (CEC). Member.

#### **INVITED LECTURES**

1st International Cardiac Anesthesia, Atlantic Society of Anesthesia, Barranquilla, Colombia. 2013 Nov. International Invited Speaker.

3rd Congress on Medical Education and Advances in Medicine, Pamplona University, Columbia. 2013 Nov. International Invited Speaker and Airway Workshop Demonstrator.

3rd International Workshop. Minimally Invasive Cardiac Surgery. Colombia. 2013 Nov. International Invited Speaker.

#### **Dr. John-Baptiste, Ava**

##### **Assistant Professor**

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

##### **Associate Professor**

Association of Canadian Departments of Anesthesia (ACUDA): Perioperative Anesthesia Clinical Trials (PACT) Group. Member.

Canadian Anesthesiologists' Society (CAS)

- Ethics Committee. Committee Member.
- Research Committee. Committee Member.

Department of Anesthesia & Perioperative Medicine, Western University.

- Cardiac Anesthesia Committee. Member.
- CSRU Committee. Member.
- Department Council. Member. 2008 – Present.
- Department Research Committee. Member.

London Health Sciences Centre

- City-wide Laser Safety Committee. Member. 2004 – Present.
- Drugs and Therapeutics Committee. Chair. 2011 – Present.
- Department of Pharmacy. Residency Committee. Member. 2011 – Present.
- Health Sciences Research Ethics Board (HSREB) Committee. Member.

#### **INVITED LECTURES**

MSc Biostatistics and Epidemiology, Western University. 2014 Sep. Invited Lecturer.

- Interpreting and critically appraising studies about diagnosis and screening [lecture].

OMA Anesthesia Meeting. 2014 Sep. Invited Provincial Speaker.

- Novel drugs in the perioperative period [lecture].
- Therapeutics in Action Conference. 2014 Oct. Invited Regional Speaker.
- Oseltamivir: Evidence vs profits and politics [lecture].

Critical Care Fellows Teaching Day. London, ON. 2014 Aug. Invited Lecturer.

- The pulmonary artery catheter and propensity score methods of analysis of observational studies [lecture].

#### **Dr. Katsiris, Sandra**

##### **Associate Professor**

##### **Director of Obstetric Anesthesia**

Association of University Departments of Anesthesia (ACUDA). Member. 2011 – Present.

Department of Anesthesia & Perioperative Medicine, Western University.

- Academic Affairs Committee. Member. 2011 – Present.
- Department Council. Member. 2009 – Present.
- Quality Assurance Committee. Member. 2008 – Present.
- Cardiac Anesthesia Rotation for Residency. Coordinator
- Postgraduate Education Committee. Member. 1999 – Present.

**[Dr. Sandra Katsiris, continued]**

London Health Sciences Centre

- Birthing Centre Redesign and Alignment Team. Member. 2008 – Present.
- Women's Health Quality Care Committee. Member. 2005 – Present.
- Perinatal Mortality Review Committee. Member. 2010 – Present.
- Obstetrics/Neonatal Quality Review Committee. Member. 2009- 2012

London Health Sciences Centre/St. Joseph's Health Care London

- MORE OB (Managing Obstetrical Risk Efficiently). Core-Team Member. 2005 – Present.
- Perinatal Leadership Council. Member. 1999 – Present.

Ontario Health Technology Advisory Committee Expert Panel for Cesarean Section Rate Review in Ontario. Member. 2013 - current

Ontario Office of the Chief Coroner. Maternal and Perinatal Death Review Committee. Member. 2007 – Present.

Royal College of Physicians and Surgeons of Canada

- Anesthesiology Specialty Committee. Member. 2011 – Present.
- Examination Committee in Anesthesiology. Member. 2009 – Present.
- Oral Examination Board in Anesthesiology. English Chair. 2011 – Present.
- Oral Examination Board. Member. 2005 – Present.
- Written Test Committee. Member. 2005 – Present; Chair Supervisor. 2011 – Present.

**Dr. Kumar, Kamal**  
**Assistant Professor**

**Dr. Lavi, Ronit**  
**Associate Professor**

**Director of Resident Research**

Department of Anesthesia & Perioperative Medicine, Western University

Hamilton Health Sciences Corporation. The Canadian Network and Centre for Trials Internationally (CANNeCTIN). Member. 2009 – Present.

London Health Sciences Centre. Impella Left Ventricle Assist Device Program. Co-ordinator. 2010 – Present.

Schulich School of Medicine and Dentistry, Western University. Management Physician Advisory Committee for the Recruitment of Talent and Excellence.

Member. 2011 – Present.

**Dr. Lindsay, Peter**  
**Adjunct Professor**

**Dr. Marmai, Kristine**  
**Assistant Professor**

**INVITED LECTURES**

Royal College of Physicians and Surgeons. 2014 Feb. Invited Lecturer.

- Obstetric Anesthesiology [lecture].

**Dr. Martin, Janet**  
**Assistant Professor**

**Director of EPiCOR (Evidence Based Perioperative Clinical Outcomes Research) Program**

see p. 40

**Dr. McCabe, Greg**  
**Associate Professor**

**Dr. McConachie, Ian**  
**Associate Professor**

Canadian Anesthesiologists' Society

- Abstract Review Committee. Member. 2009 – Present.
- Ambulatory Section. Chair. 2008 – Present.

Canadian Ambulatory Anesthesia Research and Education (CAARE) Group. Chair. 2009 – Present.

Department of Anesthesia & Perioperative Medicine, Western University

- Finance Management Committee. Member. 2011 – Present.
- Quality Assurance Committee. Committee Member. 2009 – Present.

London Health Sciences/St. Joseph's Health Care London.

- Joint Credentials Committee. Member. 2011 – Present.
- Joint Medical Advisory Committee. Member. 2010 – Present.

St. Joseph's Health Care London

- Hospital Board. Board Member. 2011 – Present.
- Care Committee. Committee Member.
- Governance Committee. Member. 2011 July – Present.
- Professional Staff Organization. President. 2011 July – Present.

**Dr. McKishnie, Jamie**  
**Associate Professor**



**Dr. McNamara, Jeffrey****Associate Professor**

London District Academy of Medicine. Vice President and Treasurer. 2011 – Present.

London Health Sciences Centre.

- Board of Directors. Member.
- Human Resources Sub-Committee. Member.
- Medical Affairs Executive Committee. Member.
- Professional Staff Organization (PSO). Vice President. 2012 – Present.

London Health Sciences and St. Joseph's Healthcare London. Joint Medical Affairs Committee. Member.

**Dr. Mezon, Bernie****Associate Professor****Dr. Millman, Logan****Adjunct Professor****Dr. Morley-Forster, Pat****Professor****Director of Pain Management Program**

see p. 28

**Dr. Morrell, Bobbi Jo****Assistant Professor**

London Health Sciences Centre: Preadmission Clinic, including Nursing, Medicine, and Anesthesia. City-wide Director. 2012 Aug – Present.

Thames Valley Hospitals. HUGO (Healthcare Undergoing Optimization).

Perioperative Order Set Builds Group. Physician Lead. 2012 – Present.

**Dr. Morrison, Stephen****Assistant Professor****Dr. Murkin, John****Professor**

Blood Conservation using Antifibrinolytics in a Randomized Trial (BART) Steering Committee. Executive Committee Member. 2008 – Present.

Department of Anesthesia and Perioperative Medicine, Western University.

- Cardiac Anesthesia Academic Group. Member. 2006 – Present.
- Cardiac Anesthesia Fellows Steering Committee. Member. 2009 – Present

The Heart Surgery Forum periodical. Editorial Board Member. 2009 – Present.

McMaster Health Research Institute. Coronary Steering Committee. Member.

National Heart, Lung and Blood Institute (NIH). Scientific Advisory Board. Member.

**INVITED LECTURES**

ASA Annual Meeting. San Francisco. 2013 Oct. Invited Lecturer.

- Cerebral oximetry and BIS during cardiac surgery [lecture]

**Dr. Newton, Peter****Associate Professor****Dr. Nicolaou, George****Associate Professor****Site Chief of Victoria Hospital****Director of Thoracic and Vascular Anesthesia**

Department of Anesthesia and

Perioperative Medicine. Western University: Victoria Hospital. Site Chief.

- Department Council. Member.
- Finance Committee. Member.
- Thoracic and Vascular Program. Director; Fellowship and Resident Coordinator; Course Coordinator.

The London & District Academy of Medicine. Member. 2005 – Present.

London Health Sciences Centres

- Anesthesia Assistant/RT Role Review Project Team & Nurse Practitioner Meetings. Member.
- Citywide Perioperative Executive Committee. Co-Chairman. 2011 – Present.
- CWPOC Procurement Committee. Member.
- Orthopedic Steering Committee. Member

Canadian Association of Pediatric Health Centre Symposium. 2013 Nov. Invited Lecturer.

- Pain in children with disabilities [lecture]

**Dr. Ower, Katherine****Associate Professor**

see p. 29

**Dr. Parkin, John****Associate Professor**

Department of Anesthesia and Perioperative Medicine, Western University: St. Joseph's Health Care London. Resident Rounds Coordinator.

**Dr. Poolacherla, Raju****Assistant Professor**

**Dr. Rachinsky, Maxim****Associate Professor****Dr. Railton, Craig****Associate Professor**

Department of Anesthesia & Perioperative Medicine, Western University.

- Journal Club. Co-Convenor.
- Quality Assurance Committee. Member. 2009 – Present.
- Research Committee. Member. 2011 – Present.

**London Health Sciences Centre**

- City-Wide Blood Transfusion Committee. Member. 2009 – Present.
- Clinical Pharmacology Resident Training Committee. Member. 2006 – Present.
- Drug and Therapeutics Committee. Member. 2011 – Present.
- Medication Reconciliation and Sustainability Committee. LHSC Physician Sponsor. 2012 – Present.
- Post-Doctoral Advisory Committee. Member. 2010 – Present.
- Research Ethics Review Board. Member. 2011 – Present.
- Victoria Hospital Perioperative Adverse Event Reporting Committee. Member. 2009 – Present.

Schulich School of Medicine & Dentistry, Western University. Department of Medicine. Clinical Pharmacology Resident Training Committee. Member. 2009 – Present

**Dr. Ralley, Fiona****Professor****Director of Perioperative Patient Blood Management**

Advisory Board for the Pathogen Inactivation Study Advisory Group (McMaster University). Member. October 2010 – Present.

Department of Anesthesia and Perioperative Medicine, Western University.

- Anesthesia Assistants Advisory Committee. Member. 2008 – Present.
- University Hospital. Anesthesia Assistants Program. Site Coordinator.

Journal of Cardiothoracic and Vascular Anesthesia. Editorial Board. Editor. 1997 – Present.

**London Health Sciences Centre**

- City-Wide Blood Transfusion Committee. Chair. 2006 – Present.
- Emergency Blood Management Committee. Member. Present.
- Ontario Nurse Transfusion Coordinators Provincial Blood Conservation Program (ONTraC). Site Director.
- Perioperative Blood Conservation Program Committee. Chair.

Ministry of Health and Long Term Care (MOHLTC). Blood Programs Coordinating Office.

- Ontario Emergency Blood Management Committee. Member. 2008 – Present.
- MOHLTC EPO Working Group. Member. 2008 – Present.
- MOHLTC Provincial Contingency Planning Working Group. Member. 2008 – Present.

Society for the Advancement of Blood Management (SABM): Board of

Directors. Member.

**INVITED LECTURES**

AABB & CTTXPO Annual Meeting 2013. Denver, Colorado. 2013 Oct. Invited Speaker.

- Antifibrinolytic agents: to use or not to use? [lecture]

**Dr. Schulz, Valerie****Professor****Director of Palliative Medicine**

Population Health Committee for the Population Health Course, Undergraduate Medical Education (UME), Schulich School of Medicine & Dentistry (SSMD)

Palliative Care Resident Committee, Postgraduate Education, SSMD

Pre-clerkship & Integration Committee (PIC), UME, SSMD

LHSC Palliative Care Program Committee

London Middlesex End of Life Care Service Delivery Committee, South West End-of-Life Care Network

Complexity Theory Study/Application Committee, SSMD, CERI (Centre for Education Research and Innovation)

RCPSC Advisory Committee on Palliative Medicine in Canada for the Conjoint Palliative Care Education between CFPC (College of Family Physicians Canada) and RCPSC

Clinical Strategy Palliative Care Working Group, LHSC

Canadian Society of Palliative Care Physicians Board

**INVITED LECTURES**

ICU LHIN-wide Collaborative Meeting. 2013 Oct. Invited Speaker.

- Delirium assessment in ICU [lecture].

**Dr. Sharpe, Michael****Professor**

Canada Blood Services: Deceased Donation Advisory Committee (ODTEAC). Member. 2012 – Present.

Canadian Critical Care Society. Secretary. 2013 – Present.

- Working Group: Guidelines on the procedure of withdrawal of Life Sustaining Therapy. Member. 2013 – Present.

CIHR: Transplantation Research Committee. Member. 2012 – Present.

Critical Care Program, Western University.

- Critical Care Joint Council. Member. 2006 – Present.
- Critical Care Research Committee. Member. 2008 – Present.
- Postgraduate Education Committee. Member. 1993 – Present.

Critical Care Services Ontario: Coordinating Committee. Member. 2012 – Present.

Intensive Care Unit Program, Western University: Coordinator for Visiting Professors.

London Health Sciences Centre

- Clinical Services Renewal Committee (Transplantation Section). Member. 2013 – Present.
- Organ Donor Management Committee. Chair. 2000 – Present
- Patient Access and Flow Steering Committee. Member. 2012 – Present.
- Respiratory Therapy Program – Critical Care. Medical Coordinator. 1997 – Present.

Ministry of Health and Long Term Care (MOHLTC): Province of Ontario Critical Care Strategy. Critical Care LHIN Leader for LHIN 2 (Southwest). 2007 –

Present.

Regional Physician Leaders and Chiefs of Staff One Number Committee. Member. 2010 – Present.

**Dr. Simon, Gary****Adjunct Professor**

London Health Sciences Centre

- Pediatric Symptom Management and Supportive Care. Member. 2010 – Present.
- Perioperative Blood Conservation Committee. Member. 2004 – Present.

**INVITED LECTURES**

London & District Dental Society. 2014 Jan. Invited Lecturer.

- Deep sedation & pediatric dentistry [lecture].

**Dr. Singh, Indu****Associate Professor**

Association of Canadian Universities Departments of Anesthesia (ACUDA): Research Group. Member. 2003 – Present.

Department of Anesthesia and Perioperative Medicine, Western University.

- Obstetric Anesthesia Program. Subspecialty Coordinator.
- Postgraduate Education Committee. Member.
- Quality Assurance Committee. Member. 2005 – Present.

London Health Sciences Centre

- Managing Obstetrical Risk Effectively Core Team. Member. 2005 – Present.
- SRTP Advisory Board. Clinical Member. 2009 – Present.

Schulich School of Medicine and Dentistry: Research Training Program. Clinical Member.

St. Joseph's Health Care London

- Hospital Medication Committee. Member. 2003 – Present.
- P & T Committee. Clinical Member

**INVITED LECTURES**

Grand Rounds, Department of Anesthesia, Benares Hindu University. 2014 Jan. Invited Lecturer.

- Obstetric anesthesia: the year in review [lecture].

CAS Annual Meeting. 2014 Jun. Workshop Instructor.

- Basic upper limb blocks [workshop].

**Dr. Sischek, William****Associate Professor****Citywide Clinical Coordinator****Site Chief, St. Joseph's Health Care**

Department of Anesthesia & Perioperative Medicine, Western University.

- Finance Management Committee. Chair. 2007 – Present
- Anesthesia Associates. Executive. 2007 – Present

Schulich School of Medicine and Dentistry, and London Health Sciences Centre: Joint Ophthalmology Selection Committee. Elected Faculty Representative.

**Dr. Smith, David****Associate Professor****Invited Lectures**

Taiyuan Medical Centre, Taiyuan, Shanxi, China. 2013 Nov. Guest Lecturer.

**Dr. Sommerfreund, David**  
**Assistant Professor**

**Dr. St-Amand, Marc**  
**Associate Professor**

**Dr. Taneja, Ravi**  
**Associate Professor**

Canadian Anesthesia Fellowship Steering Committee. Member. 2009 – Present.

Department of Anesthesia and Perioperative Medicine, Western University.

- Cardiac Anesthesia Committee. Member. 2004 – Present.
- Cardiac Anesthesia Fellowship Program. Coordinator. 2009 – Present.
- Department Council. Member. 2012 – Present.

London Health Sciences Centre: University Hospital.

Critical Care Program: Residency Training Committee. Member. 2004 – Present.

CSRU Committee. Member. 2009 – Present.

ICU Consultant Committee. Member. 2004 – Present.

ICU Research Committee. Chair. 2012 – Present

Lung Inflammation Research Group. Founding Member. 2012 – Present

**Dr. Tawfic, Qutaiba**  
**Assistant Professor**

**Dr. Teague, Kevin**  
**Assistant Professor**

**Dr. Turkstra, Tim**  
**Associate Professor**

Canadian Anesthesiologists' Society: Airway Focus Committee. Member. 2012.

Department of Anesthesia & Perioperative Medicine, Western University.

- Airway Residency Rotation. Coordinator.
  - Journal Club. Co-Convenor.
- Schulich School of Medicine & Dentistry, Western University
- National Curriculum Committee. Member.
  - Patient-Centered Care and Integration and Application (PICCA). Facilitator/Coordinator. 2010 – Present.
  - Southwestern Ontario Anesthesia Airway Conference. Instructor and Course Organizer. 2005 – Present

**Dr. Vannelli, Tony**  
**Associate Professor**

**Dr. Vijayashankar, Rakesh**  
**Assistant Professor**

**Dr. Watson, Jim**  
**Associate Professor**

Canadian Anesthesiologists' Society. Ontario Division Director and Representative to the Board. 2010 – Present.

College of Physicians and Surgeons of Ontario. Medical Inspector. 2012 – Present; Peer Assessor. 2000 – Present.

College of Respiratory Therapists of Ontario. Anesthesia Care Team Provincial Advisory Panel. Member. 2007 – Present.

Department of Anesthesia & Perioperative Medicine. Academic Affairs Committee. Member. 1998 – Present.

Fanshawe Community College, London, ON. Anesthesia Assistants Program. Medical Director. 2009 – Present.

Michener Institute. Anesthesia Assistants Program Advisory Committee, Toronto, ON. Member. 2011 – Present.

London Health Sciences Centre: Anesthesia Assistants Program. Director. 2007 – Present.

Ontario Medical Association; Board of Directors. Board Member. 1992 – Present.

Ministry of Health and Long Term Care. Physicians Services Committee. Member. 2001 – Present.

Physician Services Incorporated Foundation (PSI Foundation). Member. 2000 – Present.

Ontario Section on Anesthesiology. Delegate to Council. 2008 – Present; Executive. 2007 – Present

**Dr. Wexler, Ron**  
**Associate Professor**



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