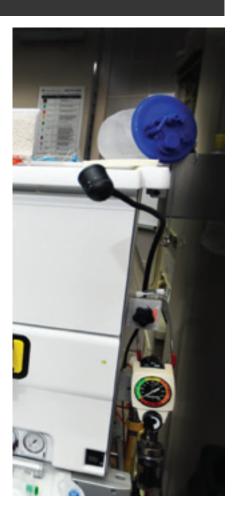


THE DEPARTMENT OF ANESTHESIA & PERIOPERATIVE MEDICINE ANNUAL REPORT 2012-13







Our vision & mission is to be an internationally acclaimed academic department in anesthesia, pain, and critical care. We strive to provide exemplary best-practice patient care and foster **EXCEIIENCE** in anesthesia delivery, research and education at the undergraduate, and postgraduate levels, and in continuing medical education at the regional, national, and international levels.

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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 at the London Teaching Hospitals (London Health Sciences Centre – University Hospital and Victoria Hospital, and St Joseph's Health Care London). We also provide the spectrum of medical care from conducting preoperative anesthesia assessment to performing the most advanced life-supporting techniques in all perioperative settings such as 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 80 faculty, 46 residents and 12 clinical fellows are committed to patient-centered quality care.

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 in Canada. The Evidence-Based Perioperative Clinical Outcomes Research (EPiCOR) Program has established our Department and Western University as an international and national evidencebased knowledge translation centre with high impact to health care decision-making and patient care.

This has led to the recent establishment of the MEDICI (Medical SJHC London MAC Award (Bill Sischek) and Joint LHSC/SJHC Evidence, Decision Integrity, and Clinical Impact) Centre in London MAC Award (Davy Cheng). They have been appointed Chair of the Regional Advisory Committee of the RCPSC (John Fuller), Member by the Schulich School of Medicine and Dentistry, London Teaching Hospitals and the Lawson Health Research Institute. The peerof the Canadian Task Force Addressing Tertiary Pain Clinic Wait time reviewed grants and publications continue to grow in our Department. and leading the establishment of Pain Specialty Certification at the RCPSC (Pat Morley-Forster). They have been invited to pen white The Department provides clinical training and didactic teaching papers to the Canadian Parliamentary Committee on Palliative and to undergraduate (UGE) and postgraduate (PGE) trainees in Compassionate Care (Valerie Schulz) and on Health Technology anesthesia and allied health care fields both at Western University Assessment in Canada (Janet Martin). Our faculty (Brian Church) and outreach community programs in Southwestern Ontario. The serves in the NATO Role 3 Multinational Medical Unit which was Anesthesia Simulation Program at CSTAR (Canadian Surgical awarded the Dominique-Jean Larrey Award, the highest NATO honor Technologies & Advanced Robotics) led by Anesthesia provides for medical achievements in Afghanistan with its highest survival training for UGE, PGE and allied health professionals in critical

rate in combat medical operation. event management and opportunities for education research in **FACULTY RECRUITMENT & PROMOTION** this area. The Department is well known for its clinical and research excellence in cardiac anesthesia, neuroanesthesia, transplantation, Congratulations to Dr. Alexander Briskin, Dr. Brian Church, Dr. Kate critical care, perioperative blood management, pain medicine, and Ower, and Dr. Maxim Rachinsky who were promoted to the rank of knowledge translation in evidence-based perioperative medicine. Associate Professor with Continuing Appointment in the Provost The Department has been attracting clinical/research fellows and stream, effective July 1, 2012 and to Dr. Pat Morley-Forster who was visiting scholars from around the world (Australia, New Zealand, UK, promoted to Professor. USA, Germany, Singapore, Korea, Japan, China, Thailand, Columbia, Egypt and Saudi Arabia) for training in anesthesia and perioperative Our Department is pleased to welcome two new faculty members medicine, as well as critical care medicine.

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 (Jeff Granton), CAS Research Awards (Daniel Bainbridge, Ronit Lavi, Collin Clarke), Member Appreciation Award of the Canadian Standard's Association (Steven Dain). YWCA Women of Distinction Award (Su Ganapathy), the Hind Ratten Award (Jewel of India) (Achal Dhir), Western Silcox-Fellow Mentorship Award (Ivan Iglesias). Faculty who has been inducted as 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 Surgeons and Physicians of Canada (RCSPC) Anesthesiology Examination Board (Sandra Katsiris), President of the Association of Canadian University Departments of Anesthesia (Davy Cheng), CAS Research Committee Chair (Neal Badner). OMA Anesthesia Chair (James Watson). OMA Honor of Excellence in Palliative Care (Valerie Schulz), LHIN Regional Critical Care Lead (Michael Sharpe),

who joined the Department in the 2012-13 academic year. Dr. Jonathan Brookes was appointed as an Assistant Professor in August 2012, following completion of over two years as a Clinical Fellow in our Department. His area of specialization is Regional Anesthesia. His previous education and training took place in UK. In September 2012, Dr. Ramiro Arellano joined our Department as an Associate Professor. He brings much experience from his previous appointments at University of Toronto, Queen's University and Dalhousie, and has significant expertise in TEE. He is an excellent educator and researcher.

While I look back on the continuing successes of our Department in exemplary clinical deliverables and quality of care, expanded depth and breathe of our education in undergraduate and postgraduate education, the high impact multidisciplinary research, and the significant administrative contributions at the hospitals, University, OMA and MOHLTC, I whole-heartedly want to congratulate all those whose contributions made this possible.

Best Regards,

DAVY CHENG, MD MSC FRCPC FCAHS CCPE DISTINGUISHED UNIVERSITY PROFESSOR. CHAIR & CHIEF DEPT OF ANESTHESIA & PERIOPERATIVE MEDICINE PROFESSOR. CRITICAL CARE MEDICINE WESTERN UNIVERSITY, LONDON, CANADA

Clinical Leadership Dr. Bill Sischek, City-wide Clinical Coordintor



The Department of Anesthesia and Perioperative Medicine has seen a year of clinical growth and expansion in 2012-13. We are pleased to have had Dr. Ramiro Arellano and Dr. Jonathan Brookes join us during this past year to enhance and broaden the skill sets of our consultant staff. With their addition we now number 80 consultant staff in the clinical department. Our academic programs continue to attract high calibre fellows from around the world to further their training at Western University, with a total of 12 fellows in 2013.

This past year has seen the continuation of the final phase of the hospital restructuring plan which began more then ten years ago in London. The final renovations to the Victoria Hospital London Health Sciences Centre (LHSC) are well underway with a projected completion time of fall 2014. In anticipation of the expanded operating room (OR) facilities, as well as ongoing growth in out-of-OR service activity, the Department is actively recruiting new staff. Three new recruited consultant staff joined us in the fall of 2013, as well as five anticipated to be recruited by the summer of 2014. The expanded numbers of staff and operating rooms means we will be in a position to implement the increased number of shorter elective operating lists which was identified as a key initiative in 2011.

The renovations to the University Hospital LHSC office space will help to accommodate the growing number of staff when new office construction is completed. With the increased staff, there is also the need to address the integration of administrative staff support city wide as well. This has all translated into further increased integration of the multiple sites we service.

The city of London hospitals continue to evolve to improve patient care and as they do we see ever increasing demands for anesthesia services. The diversity of out-of OR commitments now include endoscopy, a broad range of pediatric services, interventional radiology, diagnostic imaging and research related projects. In the near future we are looking to expand into the new Schulich School of Medicine & Dentistry dental procedures which are anticipated to address the growing pressures for dental work and training in outpatient anesthesia.

2012/13 was another successful year for the Department and we look forward to all that 2013/14 has to offer.



DEPARTMENT **ORGANIZATION**

2012-2013

Executive

DAVY CHENG, CHAIR/CHIEF

WILLIAM SISCHECK, ST. JOSEPHS HEALTH CARE LONDON SITE CHIEF, AND CITY-WIDE COORDINATOR

CHRISTOPHER HARLE, UNIVERSITY HOSPITAL SITE CHIEF

George Nicolaou, Victoria Hospital SITE CHIEF

LOIS HAYTER, ADMINISTRATIVE OFFICER

Department Council

Davy Cheng (Chair) Christopher Harle George Nicolaou Ivan Iglesias Jeff Granton John Murkin Kevin Armstrong Michael Currin (Elected Rep.) Philip Jones (Elected Rep.) Ron Butler Sandra Katsiris (Elected Rep.) William Sischeck

Academic Affairs Committee

Kevin Armstrong (Chair) Collin Clarke Davy Cheng Fiona Ralley Geoff Bellingham Ramiro Arellano Sandra Katsiris

Undergraduate

Ivan Iglesias, Director Pravin Batohi, SJHC Coordinator Michelle Gros, VH Coordinator Peter Mack, UH Coordinator

Postgraduate

Jeff Granton, Program Director Davy Cheng, Chair

Arif Al-Areibi, Associate Program Director

Sean Lougheed, Chief Resident

Rosemary Craen, UH Site Coordinator

Pod Armstrong, SJH Site Coordina-

Kevin Teague, VH Site Coordinator Indu Singh, Research Coordinator Richard Cherry, IT and Simulation Director

Colin Phillips, Resident Rep

Nicole Quigley, Resident Rep

Sarah Ashton, Enhanced Skills Rep Linda Szabo Administrator

Nicole Campbell, Community (St. Thomas) and SWOMEN Rep

Daniel Grushka, Enhanced Skills/ Family Medicine Program Director

Continuing Medical Education

Ian Herrick. Chair Erin Cecchini

Fellowship

Miguel Arango, Director and Neuroanesthesia Achal Dhir, Liver Transplant George Nicolaou, Thoracic and Vascular Anesthesia

Indu Singh, Obstetric Anesthesia Pat Morley-Forster, Chronic Pain Ramiro Arellano, Cardiac Anesthesia Richard Cherry, Simulation Sugantha Ganapathy, Regional Anesthesia

Cardiac Surgery Recovery (CSRU) Consultants

Ron Butler (Director) Daniel Bainbridge Davy Cheng Jeff Granton Philip Jones

Research Committee

John Murkin (chair) Daniel Bainbridge Davy Cheng

Richard Cherry Collin Clarke Philip Jones Craig Railton Indu Singh Timothy Turkstra Ronit Lavi Erin Cecchini

AAPP Finance Management Committee

William Sischek (Chair) Chris Harle Davy Cheng Ian McConachie Kevin Teague Lois Hayter Philip Jones Sandra Silverthorn Woiciech Dobkowski

Anesthesia Quality Assurance, City-wide

Ian Herrick, Director Geoff Bellingham (SJHC) Indu Singh (SJHC) Steven Dain (UH) Michelle Gros (VH) Christopher Harle (Site Chief Rep.) Ronit Lavi (UH) Craig Railton (VH) Rebecca Ashcroft (Anesthesia Resident) Magdalena Terlecki Anne Marie McIlmovle (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 Covenors Philip Jones Timothy Turkstra

Administrative Support Staff

Andrea Fragassi Barbara Callam Brie McConnell Cathy Pollard Cathy Worsfold Christina White Erin Cecchini Jamie Allaer Jessica Moodie Julie Anderson Kathy Bilton Kim Harrison Linda Gibson Linda Szabo Lvnn Hinchcliffe Marilyn Twiddy Ola Bienkowski Shannon McConnell Val Rapson



Clinical Statistics

London Health

JOSEPH'S Sciences Centre Pediatric Day/InPatient LHSC University Hospital LHSC Victoria Hospital St. Joseph's Health Day/InPatient Care London 1783 3268 926 378 General Surgery 1418 02 Cardiac --184 557 304 74 Dental 1208 247 131 Neurologic -Obstetric and 02 3281 295 Gynecologic Ophthalmologic 290 271 2256 ----2912 Cataract Suite Orthopedic 3887 2677 937 814 394 1692 712 307 Otolaryngologic 866 261 Plastic 426 441 Thoracic and 03 1664 05 Vascular 501 834 219 570 Urologic 448 Litho Total Surgical Procedures 9,806 15.378 3.766 8,495 Requiring Anesthesia/Analgesia

Grand Total for 2012/13 37,445

Clinical Sites: Reports from the Site Chiefs

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

VICTORIA HOSPITAL, LONDON HEALTH SCIENCES CENTRE (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.

Our emphasis is the clinical teaching of residents, medical students fellows and allied health professionals. This includes the use of a wellestablished anesthesia simulator program.

We also have a well-established acute and chronic pain service. In This pediatric division is under the guidance of Dr. Mohamad addition, we provide anesthetic services for 'out-of-OR' procedures Ahmad, with program direction from members of the Pediatric such as endoscopy/colonoscopy, MRIs, CT scans, interventional Anesthesia Subspecialty Group. radiology, diagnostic/therapeutic lumbar punctures, bone marrow aspirates, kidney biopsies, bronchoscopies and any other 'out-ofrooms on a daily basis. In addition, this is increasing our OR' procedures that might require sedation.

It currently support three dedicated pediatric surgery operating involvement in 'out-of-OR' settings which include endoscopy/ colonoscopy, MRIs, CT scans, interventional radiology, diagnostic/ Victoria Hospital also provides anesthesia services for all obstetrical therapeutic lumbar punctures, bone marrow aspirates and any patients in the city of London. The site's emphasis is the clinical other procedure that is amenable to sedation. We have also teaching of residents, medical students, fellows and allied health implemented a 'Parental Presence at Induction' Program in professionals. This includes the use of a well-established anesthesia conjunction with the hospital's 'Child Life Program' and have simulator program. expanded pediatric preoperative assessment and postoperative pain management services. Pain management in the ward for pediatric patients with epidurals is both offered and supported. We The operating suites at Victoria Hospital are undergoing major are also in the process of developing a pediatric, multi-disciplinary renovations and reconstruction. When completed there will be chronic pain program for residents. Interested staff continue to

eighteen state of the art Operating Suites equipped with the latest anesthesia and surgical technological advances.

ANESTHESIA RESOURCES

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

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

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 under the guidance of Dr. Richard Cherry. The program continues to deliver simulationbased 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 can be used for research purposes. Our interventional pain management program is well established and has expanded to include pediatric patients.

ST. JOSEPH'S HEALTH CARE LONDON

DR. WILLIAM SISCHEK, SITE CHIEF

St. Joseph's Health Care London (St. Joseph's) continues to serve the population of Southwestern Ontario and beyond with a wide array of ambulatory and short-stay surgical procedures. St. Joseph's is home to the recently named Roth McFarlane Hand and Upper Limb Centre, as well as the Ivey Eye Institute, and also supports minimally invasive surgery for urology, gynecology and general surgery.

The Department of Anesthesia and Perioperative Medicine is pleased with the growth of the Regional Anesthesia program at St. Joeseph's as well as the integration of the newly formed Comprehensive Pain Management Program (CPMP). The CPMP is intended to coordinate the care of a diverse group of patients by bringing together the Acute Pain, Regional, Chronic Pain and Palliative Care pain groups. While the CPMP has a city wide presence, the new Royal College Chronic Pain fellowship, which is slated to begin summer 2014, will be sited primarily at St. Joseph's and will form a significant component of training and work there.

As in the past two years, the ambulatory care programs have continued to evolve and are pushing the boundaries for short stay surgery. This past year saw the first of our 23 hour stay robotic, minimally invasive radical prostatectomy procedures. New and innovative surgical approaches to disease have mandated an equally assertive anesthetic management to help meet the ever changing needs of the surgical population. Our department strives to make patient care "goals" standards. With 11 700 surgical procedures in our operating rooms and over 4400 procedures in our cataract suites we have a wealth of opportunities to excel!

UNIVERSITY HOSPITAL, LHSC

DR. CHRIS HARLE, SITE CHIEF

The University Hospital is a major quaternary referral center and teaching facility within the University of Western Ontario. We provide anesthesia for cardiac surgery, neurosurgery, general surgery, orthopedic surgery, sports medicine, plastic surgery, urological surgery and ear nose and throat surgery. We are a major transplantation center, and service cardiac transplantation, liver transplantation and kidney and pancreas transplantation. We are actively involved in the provision of anesthetic support for procedures in the interventional radiology suite, the cardiac catheter labs and the electrophysiology labs. We have a strong departmental presence in critical care with faculty members working in both the medical and surgical critical care unit as well as the cardiac surgery recovery unit. We provide ongoing support for a busy pre-admission clinic and we have a flourishing regional anesthesia program and acute pain service. We have a dedicated perioperative Trans Esophageal Echocardiography Service.

The Department of Anesthesia and Perioperative Medicine is actively involved in developing and supporting new and innovative surgical approaches to complex disease processes; in particular we are involved in implantable cardiac support programs, novel surgical approaches to aortic valve diseases as well as robotic surgery for cardiac, hepatobilliary, renal and head and neck surgery.

We have an active Neuro-surgical program and we provide anesthesia for innovative neurosurgical techniques including major epilepsy surgery as well as for device implants for patients with movement disorders and chronic pain.

At present we have 16 fully operational operating rooms, and have

excellent facilities for minimally invasive and robotic procedures. We have one of the first hybrid cardiac surgical facilities in Canada and have the first North American robotic arm neuro-angiography equipped operating room.

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.

The University Hospital has embraced the Anesthesia Care Team model and are grateful for the support and assistance we receive from our Anesthesia Assistant colleagues who help us in the Operating Rooms, the Block Room and in our Out-of-Operating Room anesthesia locations enhancing patient care, safety and adding sustainability to our work patterns. We are pleased to welcome our fourth full time Anesthesia Assistant. and look forward to recruiting more.

The University Hospital site is the base for many ongoing and proposed research projects, and our Faculty are actively involved in a wide range of research projects including many prestigiously funded projects.



Quality Assurance

DR. IAN HERRICK, QUALITY ASSURANCE COMMITTEE CHAIR

The Department of Anesthesia and Perioperative Medicine has an established tradition of high quality care. To compliment the key role of the individual practitioner in the provision of quality care, the Department has an established quality assurance program and multidisciplinary Quality Assurance (QA) Committee with the following mandate:

To assist the Chief/Chair and the 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 'learnings' derived from local research initiatives with relevance to the quality or safety of anesthesia care.

The Committee met quarterly and was supported administratively by Ms. Erin Cecchini. Data management was provided by Dr. Magda Terlecki.

HIGHLIGHTS FOR 2012-13

CLINICAL AUDIT

The QA Committee monitors departmental performance across several surveillance indicators and various clinical audit activities. Over the past year, projects have focused on:

i) review and realignment of surveillance indicators to enhance focus on anesthesia care.

ii) completed an analysis of surveillance indicator performance for past two years.

iii) audited anesthetic record quality.

RESEARCH

The Committee, through a working group, has completed work on a policy-initiative focused on perioperative care for patients with sleep apnea.

Education Programs

Postgraduate, Undergraduate, and Continuing Medical Education; and Fellowship



POSTGRADUATE EDUCATION

DR. JEFF GRANTON, DIRECTOR

The past academic year has been another successful one for the Anesthesia Residency Training at the Schulich School of Medicine & Dentistry. Our program in 2012-13 included forty three 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.

This past academic year included a scheduled accreditation visit from the Royal College of Physicians and Surgeons. Our Residency Training Programs came through this visit with very positive feedback from the site accreditors. The final report provided in January 2013 provided our program with full accreditation and mentioned a long list of strengths.

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	VACULAR ANESTHESIA

Changes to the structure of the clinical services in London has strengthened our ability to offer quality education. In particular, the consolidation of obstetrics and all pediatric services to Victoria Hospital as improved our capacity to offer focused teaching and experience in these areas. Rounds specifically dedicated to obstetrical and pediatric anesthesia are now regularly scheduled.



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 trainin 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 a simulator this past year 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 Scho of Medicine and Dentistry and also nationally. This past year was another successful year for our residents in research.

RESIDENT RESEARCH

DR. INDU SINGH, DIRECTOR

The McMaster-Western Anesthesia Resident Reserach Day, is an annual event, hosted every other year at Western University. This year's Resident Research Day was hosted by McMaster University Department of Anesthesia on June 13, 2013. Residents from both universities presented their research at this all day event. Case

ng, e	reports, pilot studies, and randomized clinical trials were presented. Residents were encouraged to ask questions of their peer present- ers to further their knowledge of the subject matter as well as evalu- ate the research methods of the projects presented. Prizes were awarded to the top presenters.		
art, n	Western Resident presentations were the following:		
	Colin Phillips. Laparoscopic Surgery in a Patient with Fontan Circulation and Liver Cirrhosis		
ool	Farah Manji. A Foray into Undergraduate Medical Education: A New Course about Canada's Health Care System		
	Fiorenzo Cusano & Jason Fridfinnson. Comparison of Early Endotracheal Tube Insertion with Glidescope Use. Awarded 3rd prize.		
	Matthew Banasch. Gastric Ultrasound: An Update of the "Wave" of Tomorrow		
	Melissa Chin. A Case of Unexpected Intraoperative Bilateral Jugular Vein Resection and Its Anesthetic Management		
's	Samer Al-Ghazaly. Incidence and Transesophageal Echocar- diography Predictors of Dynamic Left-Ventricular Outflow Tract Obstruction during Orthotoic Liver Transplantation: A Pilot Study		

IN CLOSING

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. Katsiris, Gverzdys and Soderman have stepped down from the PGE Committee. All have provided outstanding leadership and dedication to the committee and department over the years.

2012 -13 PGE COMMITTEE

Jeff Granton – Program Director

Davy Cheng - Chair of Department of Anesthesia and **Perioperative Medicine**

Sandra Katsiris – Associate Program Director

Arif Al-Areibi – Academic Half Day Coordinator

Jennifer Landry - Co-Chief Resident

James Riddell – Co-Chief Resident

Rosemary Craen - Site Coordinator University Hospital

Pod Armstrong – Site Coordinator St. Joseph's Hospital

Rooney Gverzdys - Site Coordinator Victoria Hospital

Indu Singh – Resident Research Coordinator

Richard Cherry – Simulation and Information Technology Director

Mark Soderman - Community (St. Thomas) and SWOMEN

Ed Roberts - Community (Windsor) and SWOMEN

Colin Phillips – Resident Representative

Farah Manji - Resident Representative

Bart Mysliwiec – Enhanced Skills Representative

Linda Szabo - Administrator



IN MEMORIAM

DR. ANDRE GAUTHIER

It is with sadness that we remember the loss of Dr. Andre Gauthier in July 2012. Andre was a senior anesthesia resident and a highly respected physician within the Department of Anesthesia and Perioperative Medicine at the Schulich School of Medicine & Dentistry.

He will certainly be missed by all who had the good fortune to work alongside him in the operating room, critical care units, wards and clinics

UNDERGRADUATE EDUCATION **DR. MICHELLE GROS. DIRECTOR AS OF 2013 JULY**

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 in the city. In the past, 2 students would each be assigned to 1 of the 3 teaching hospitals in London. This past year, we have increased the flexibility, so that the students spend time at more than one hospital. This allows the students a better exposure to the wide variety of anesthetics delivered across the city.

Students spend each day of their rotation assigned to a staff supervisor, where they receive one-on-one teaching.

This past year, we have also been linking each student to 2 staff members for their rotation. This has greatly improved the continuity of teaching that the students receive.

An updated medical student handbook was purchased for our department this year.

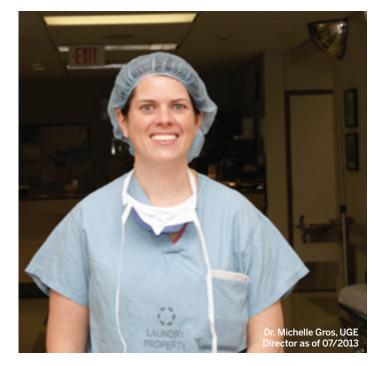
Each medical student rotating through is given this book and encouraged to read it during their rotation

designed to address issues and topics of local interest) and sub-Another welcome addition to the Anesthesia rotation is Anesthesia specialty rounds and seminars (organized to meet the educational Bootcamp in the simulator. Each group of students gets to spend needs of subspecialty groups e.g., cardiac anesthesia, neuroanesthe first day of their 2 week rotation in the simulator with a simulathesia, obstetrical anesthesia, etc.). tion fellow, and/or staff anesthetist. They learn some basic skills and knowledge, so that when they come to the operating room, they The CME Program benfited substantisially in 2012-13 with the addifeel more comfortable. Some of the things that they are taught intion of Erin Cecchini as Program Coordinator. clude preoperative assessments, the anesthesia machine and monitoring, airway management, and drug administration. They then In addition, the CME Program hosts several lectureships and achave the opportunity to run through some case-based scenarios. credits local, national or international conferences and workshops The students evaluate this very highly, and state that it eases the supported by the Department and organized by its members. transition into the operating room.

We also have a significant number of Western and visiting elective students from Canada and abroad that rotate through the Anesthesia program. They are given the opportunity to meet with the program director to discuss the program at Western during their rotation.

CONTINUING MEDICAL EDUCATION **DR. IAN HERRICK, DIRECTOR**

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 (CME) 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

This year we were pleased to welcome Dr. M. Shazam Hussain - an internationally distinguished academic neuroradiologist in the field of vascular neurology – as our Aitken Lecturer, held jointly with the Department of Neurosurgery.

Several projects have been undertaken by the CME work group in 2012/13, including an internal audit and accreditation renewal of ongoing Departmental CME events with the Royal College of Physicians and Surgeons of Canada; creation of a self-approved events database and internal registration process for new CME events; and the coordination of a videoconferencing platform that enables the broadcast of rounds events to remote locations across the city.

CITY-WIDE ROUNDS -

CMF Activities and Events, the year in review

2012/2013	Sanuary 10, 2015	
September 19, 2012	Speaker: Dr. Janet Martin and Dr. Davy Cheng, Anesthesia and Perioperative Medicine Title: Colloids vs. Crystalloids for Surgical and ICU Patients: Which is Best?	
Speaker: Dr. Mohamed Ahmad, Anesthesia and Perioperative Medicine		
Title: Anesthesiology in Pediatric to Adult Transitional Care		
	April 17, 2013	
October 31, 2012	Speaker: Dr. Davy Cheng, Anesthesia and Perioperative	
Speaker: Norma Colenutt, Pyxis Products	Medicine	
Title: Pyxis Workflow Meeting	Title: Health Technology Assess- ment & Knowledge Transla- tion: Evidence to Guidelines to Practice: The Road Less Traveled	
November 21, 2012	June 19, 2013	
Speaker: Dr. Chris Lewis, Physi- cian Executive, Cerner Consult- ing	Speaker: Dr. Magda Terlecki and Dr. Ian Herrick, Anesthesia and Perioperative Medicine	
Andrew Nemirovsky, Physician Information Specialist, HUGO	Title: Quality Assurance Update: QA Indicator Review 2011-2013	
Title: HUGO Process Update for Anesthesiologists		
	PERIOPERATIVE ROUNDS – 2011/2012	
December 5, 2012	October 17, 2012	
Speaker: Dr. Nicolai Goettel, An- esthesiologist and Critical Care Specialist, Emergency Medicine	Speaker: Dr. Jennifer Barr, Psychiatry	
Clinical/Research Fellow, Department of Anesthesia,	Dr. Kevin Teague, Anesthesia and Perioperative Medicine	
University of Toronto Title: Innovation in Neuroan- esthesia and Neurosurgical	Title: Postoperative Delirium – The Brain's Failure	
Pathways	January 23, 2013	
Dr. Kate Ower	Speaker: Dr. Robert Stodilka, Radiation Safety Officer	
	Title: Radiation Safety Aware- ness for Operating Room Staff	
	Speaker: Ben Reyes, Radiation Safety Officer	
	Title: London Hospitals Radia- tion Safety Program and X-ray Safety	

January 16, 2013

May 15, 2013

Speaker: Dr. Rookaya Mather, Ophthalmology

Dr. Mohamad Ahmad, Anesthesia and Perioperative Medicine

Sue Taylor, Nurse Educator/ LSOPhyllis Brady, Quality Management and Clinical Decision Support

Title: Patient Safety Critical Incident Use of Cautery in the **Operating Room**

June 5, 2013

Speaker: Dr. Ian McConachie, Anesthesia and Perioperative Medicine

Dr. Kate Ower. Anesthesia and Perioperative Medicine

Heather Fisher, RN, Acute Pain Service

Title: A New Perioperative Modality for Challenging Pain Patients, Lidocaine Infusions

2013 AITKEN LECTURE -MARCH 20, 2013

March 19 & 20, 2013

Speaker: Dr. M. Shazam Hussain, Assistant Professor (Neurology), Cleveland Learner College of Medicine, Case Western University; Head, Cleveland Clinic Stroke Program; Staff, Vascular Neurology and Endovascular Surgical Neuroradiology Cerebrovascular Centre, Neurological Institute Cleveland Clinic

Title 1: Acute Stroke Intervention: What Next?

Title 2: General vs. Local Anesthesia for Acute Stroke Intervention

Fellowship

DR. MIGUEL ARANGO. DIRECTOR

Fellowships in cardiac, neurosurgical, transplantation, regional, The SOAP meeting is an internationally recognized meeting for obstetrics, pain management, and vascular & thoracic anesthesia obstetric anesthesia research. At the recent 45th Annual Meeting are offered each year at the London Health Sciences Centre and St. for the Society of Obstetric Anesthesia & Perinatology (SOAP), Dr. Joseph's Health Care London. Fellowships are usually 12 months in Kamal Kumar and Dr. Cristiana Miron, both Obstetric Anesthesia Felduration. lows in the Department, had their research posters selected, above many others, as high-level posters for formal discussion during the Programs are individualized to meet the goals of successful apposter presentation session.

plicants. Generally, clinical experience is the focus along with improvement in clinical research. Fellows spend approximately four Dr. Kamal Kumar's poster was titled Pre-Procedural Ultrasound days per week in clinical activities with one day per week protected Does Not Decrease the Number of Attempts in Trainees Performing for non-clinical activities, and participation in night call schedule Spinal Anesthesia for Obstetric Patients: A RCT. Co-authors included (from home). Fellows are also encouraged to be actively involved in Drs. Turkstra, Singh, Marmai, & K Armstrong. resident, medical student and nursing education, didactic lectures Supervisor: Dr. Tim Turkstra and to participate in anesthesia rounds and specialty conferences. Applications are usually considered 12 - 18 months prior to the start Dr. Cristiana Miron's poster was titled Maternal anesthesia for EXIT date. procedure: a systematic review of the literature. Co-authors of this study included Drs. Singh, Kumar, & Agarwal. During the 2012-2013 academic year, the department had 17 clinical

fellows. Our cardiac program had 3. Transplant had 3. Regional had 3, Obstetrics had 2, Simulation had 2, Chronic Pain had 1, Vascular/ Thoracic had 2. and Neuroanesthesia had 1.

FELLOWS RESEARCH DAY

Our annual Fellows Research Day was held on May 11th 2013. The event was well attended and a huge success. We had 9 fellows presentations throughout the day and all of the fellows worked very hard on their research.

DR. CRISTIANA MIRON WON 1ST PLACE FOR HER PRESENTATION ON MATERNAL ANESTHESIA FOR EXIT PROCEDURE: A SYSTEMATIC REVIEW OF THE LITERATURE.

DR. APHICHAT "KI" SUPHATHAMWIT WON

2ND PLACE FOR HIS PRESENTATION, STUDY OF PERIPHERAL MICROCIRCULATORY DYSFUNCTION IN END-STAGE LIVER DISEASE PATIENTS DURING LIVER TRANSPLANTATION USING NEAR INFRARED SPECTROSCOPY.

And many thanks to our judges: Dr. John Murkin, Dr. Tim Turkstra, Dr. Ronit Lavi and Dr. Kevin Armstrong.

And last but not least, a big thank you to Dr. Indu Singh for officiating the day as Dr. Arango was not able to attend.

OBSTETRICS FELLOWS' RESEARCH POSTERS RECEIVE CRITICAL ACCLAIM AT SOAP

Supervisor: Dr. Indu Singh

Besides Dr. Kumar and Miron, most of our other fellows have presented research at annual international conferences throughout the year such as: American Society of Anesthesiologist's meeting (ASA), Canadian Anesthesiologists' Society meeting (CAS), Regional Anesthesiology and Acute Pain Medicine meeting, American Society of Regional Anesthesia meeting (ASRA), and the European Society of Regional Anesthesia and Pain Therapy meeting (ESRA).



Clinical Academic Programs



Anesthesia Assistants Program

DR. JAMES WATSON, DIRECTOR

The past year has continued 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 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 fifth class began in September. The Department of Anesthesia and Perioperative Medicine has been involved in the design of this program and has provided a significant amount of classroom and operating room instruction. During the Basic Program, run from September to December, most teaching is provided by Fanshawe College instructors affiliated with the long–established Respiratory Therapy Department. 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 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.



Cardiac Anesthesia

DR. DANIEL BAINBRIDGE, DIRECTOR

The cardiac program continues at a steady pace for the 2012-2013 academic year with approximately 1400 cases per year.

Eighteen anesthesiologists participated in the program during the year. The trans catheter aortic valve program was firmly established along with a ventricular assist program, which resulted In the implantation of two LVAD devices. Finally, a mitral clip program was started at the end of the year with the aim of having one day per month for mitral clip insertions. The fellowship program has again expanded and currently there are 4 fellows participating.

The perioperative echocardiography program continues to expand. On the training front, another simulator was purchased to enhance training of both fellows and residents. The goal is to expand the program to include perioperative TTE examinations for non-cardiac patients. On the clinical front, the integration of ultrasound storage into the hospital Excelera platform is now finished, marking a complete integration of perioperative ultrasound within the hospital frame work.

ACCTTS

ANESTHESIA AND CRITICAL CARE TEACHING THROUGH SIMULATION



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

Simulation continues to be an integral part of the Department of Anesthesia and Perioperative Medicine. During our recent residency accreditation by the Royal College, the ACCTTS group was a specifically recognized strength in the training program at Western. The ACCTTS faculty are committed to excellence in simulation delivery and debriefing. We continue to refine our skills through systematic and rigorous peer assessment. In light of the Royal College initiative to transition residency programs to competencybased curriculum after 2015, we are striving to position our simulation program to make that transition a smooth one.

Dr. Richard Cherry is the Western representative on the Canadian National Anesthesia Simulation Curriculum (CaNASC) committee. This committee is tasked with the development of a standardized national simulation curriculum for postgraduate training in anesthesia.

While the predominant focus of ACCTTS is postgraduate anesthesia and critical care, our faculty participate annually in multiple other simulation-based education activities. As in previous years, we actively deliver the curriculum for the Anesthesia Clerkship Boot Camp, the CSTAR IPE Summer School, and Surgery PGY1 Simulation, and assist in the annual Emergencies in Otolaryngology course.

This past academic year saw greater opportunities to expand interprofessional simulation based education. ACCTTS continues to break new ground in this area of study and practice at Western University. Under the direction of Dr. Andreas Antoniou, a successful interprofessional simulation-training program has been piloted in obstetrical anesthesia.

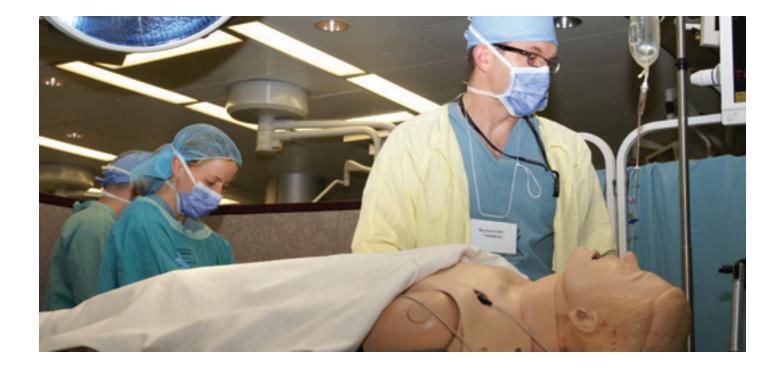
During these simulations, teams of anesthesiologist, obstetricians, respiratory therapists and nurses participate in Crisis Resource Management training.

These events have been well received and participants are wholly committed to improving our overall team performance and increasing patient safety.

In further interprofessional activities, the ACCTTS (Drs. Bruni, Butler, and Cherry) faculty participated with over thirty operating room nurses from Victoria Hospital and University Hospital in a simulation-based education day focused on anesthesia emergencies in the operating room. In collaboration with general surgery, critical care and CSTAR, ACCTTS faculty successfully delivered the first high fidelity, in-situ simulation experience in the CCTC and Victoria Hospital. It is our objective to see that this type of professional training activity will become a regular occurrence for our trainees and practicing professional staff.

ACCTTS enjoyed having Dr. David Dubois as our Simulation Fellow during this academic year. Dr. Dubois has returned to Sherbrooke, Québec, where he will help to establish the anesthesia simulation programming. We are pleased the fellowship program will be expanding next year and we look forward to the arrival of Drs. Arwa Alzahrani (Saudi Arabia) and Erika Dutz (Australia). Acceptance to our fellowship continues to be a competitive process with numerous applicants from both national and international locations.

Our group continues to represent the department well at notable national and international meetings. Drs. Antoniou and Cherry presented two workshops at The Canadian Simulation Summit (Ottawa Nov 2012) and the International Meeting for Simulation in Healthcare (IMSH Orlando Jan 2013). The workshops covered two topics: Thinking Outside the Box - Creativity and Simulation Scenario Design; and Degrief the Debrief - How to Manage 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, 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. Trainees from anesthesia and cardiac surgery, cardiology, critical care residents, and cardiac anesthesia rotate through the unit. 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.

Chronic Pain Clinic

DR. PAT MORLEY-FORSTER

CLINICAL CARE

Several important developments occurred in 2012-2013 for the Western Pain Program. In September, the Pain Management Program at St. Joseph's Health Care London moved to a 3,326 sq. ft. state-of-the-art facility on the third floor of the hospital. This includes procedure rooms, physician offices and a fluoroscopy suite dedicated to pain management. The fluoroscopy suite allows us to offer a number of fluoroscopically-guided procedures for intractable pain such as nerve root blocks, lumbar and cervical epidural steroid injections, and radiofrequency facet denervation for chronic back and neck pain. St. Joseph's Outpatient Pain Clinic receives over 5,000 patient visits per year and this number is growing. Another exciting event in 2012 was the launch of two websites: the Western Pain Medicine website and St. Joseph's Pain Management Program website. The Western Pain Medicine website is our virtual voice in research and education, describing the faculty, research, resources, and our contributions to education including upcoming speaking events and conferences. There is also an extensive history of the Earl Russell Research Chair in Pain Management and Research.

A new triage system to streamline our referrals was developed this year. It was implemented with direction from Dr. Kate Ower and RN Cathy Rohfritsch. This new triage system has been very effective in reducing the average wait time for new patients to 3-6 months depending on the service required. Urgent consults, specifically complex Regional Pain Syndrome, can be seen within 2-3 weeks.

EDUCATION

UNDERGRADUATE

The pain program continues to be very active in pain education at the undergraduate level. This includes a well-attended Year 4 elective on Pain Medicine. This is a multi-disciplinary course provided by anesthesiologists, neurologists, a psychiatrist, a psychologist, a palliative care specialist, and a pharmacist. This past year, the ICE hours were increased by the Schulich School of Medicine Curriculum Committee from 12 to 18 hours, with a future hope of increasing this to 36 hours annually.

POSTGRADUATE

Anesthesia residents rotate through the Pain Clinic for at least one block (more if requested). We also offer Physical Medicine residents a three-month rotation as part of their training requirement. Pain Management continues to be a popular elective with Family Medicine, and Psychiatry residents.

FUTURE SUBSPECIALTY TRAINING

The Royal College Pain Medicine Subspecialty Program is a two year multidisciplinary training program, which includes Psychiatry, Pediatrics, Neurology, Physical Medicine, Rehabilitation, and Rheumatology. The curriculum received official approval from the Royal College in June, 2013. Program Director, Dr. Geoff Bellingham was responsible for preparing the Western University application for accreditation.

CONTINUING MEDICAL EDUCATION

Interdisciplinary Pain Rounds (MAINPORT –accredited) are presented on the fourth Thursday of each month and feature invited speakers with national and international reputations. A list of seminar topics and lectures follows on the next page. Announcements are posted regularly on www.westernpain.ca, as well as in the weekly electronic newsletter for the Schulich School of Medicine and Densitry.

FOR MORE INFORMATION: www.westernpain.ca

Chronic Pain Continuing Medical Education & Academia

2013 June: Patient education days, supervised by the psychologist affiliated with the clinic, Dr. Heather Getty.

INTERDISCIPLINARY PAIN ROUNDS

September 26 : Headache Management – The Good, The Bad and The Ugly. Dr. Paul Cooper, Professor Department of Clinical Neurological Sciences, Schulich School of Medicine & Dentistry, Western University, London, Ontario

October 31: Life After Oxycontin – Recent Trends in Abuse and Division of Prescription Analgesics in the USA. Dr. Richard Dart, Director Rocky Mountain Poison and Drug Centre, Professor Emergency Medicine, University of Colorado, Boulder, Colorado, USA

November 28: Opioid-Induced Hyperalgesia – Presentation, Mechanisms and Treatment. Dr. Ronald Wasserman, Director Back and Pain Centre, Chief Pain Services, Assistant Professor Department of Anesthesiology, University of Michigan, Ann Arbor, Michigan USA

ACADMEMIC OUTREACH AND SCHOLARSHIP

Bellingham, Geoff

Invited Lectures

Canadian Interventional Pain Conference: Ultrasound Workstations. 2013 Mar. McMaster University, Hamilton, ON. Workshop Demonstrator.



Southwestern Ontario Anesthesia Meeting: Bronchoscopy Station. 2012 Oct. London, ON. Workshop Demonstrator. Ultrasound for Pain Medicine: Ultrasound Workstations. 2012 Nov. Toronto Western Hospital. Workshop Demonstrator. Clarke, Collin Invited Lectures CanAM International Anesthesia Conference, Niagara Falls, ON. 2013 May. Presenter: Can anesthetic technique influence cancer recurrence? Ontario Pain Fellow Interventional Review Course. 2012 Nov. Invited Speaker: Review of the Interventional Procedures for Pain Fellows in Ontario Schulich School of Medicine & Dentistry, Western University. Oncology Grand Rounds. 2012 Sep. Presenter: Beyond Opioids: What Can Palliative Care offer? Prinicples of Surgery Curriculum. 2013 Mar. Presenter: Pain Management in Surgical Patients. Surgical Grand Rounds. 2012

 Surgical Grand Rounds. 2017 Oct. Presenter: Addiction After Surgery, strategies for Prevention.

St. Joseph's Health Care London. Perioperative Nursing Rounds. 2013 Apr. Presenter: Optimizing Perioperative Pain.

Morley-Forster, Pat Invited Lectures

Beaverbrook Family Health Care Unit. 2012 Nov. Invited Speaker: Update on pharmcotherapy in chronic pain: London Family Health Care Team.

St. Joseph's Health Care London: Pain Program Patient Education Day. 2013 Jan. Presenter: The biology of persisting pain.

For additional information on the roles and academic outreach of the Chronic Pain faculty, please refer to the section on FACULTY ROLES, ACADEMIC OUTREACH & SCHOLARSHIP, [p.43]

Dr. Pat Morley-Forster is the CAS Gold Medalist for 2013

In recognition for outstanding contributions to anesthesiology and leadership in the advancement of chronic pain management. Read more, [p.42].





Neuroanesthesia

DR. MIGUEL ARANGO. DIRECTOR

The Neuroanesthesia Program has had another successful year in 2012-2013. Between July 1, 2012 and June 30, 2013, University Hospital had a total of 1218 Neuro cases and Victoria Hospital had 269.

The program had 1 Neuroanesthesia fellow and 8 residents completed a neuroanesthesia rotation. Our goal is to provide advanced training to those individuals (residents/fellows) who either plan to enter academic anesthesiology with an emphasis in neurosurgical anesthesia or those who wish to practice in a setting that has a large number of neurosurgical procedures. Trainees gain knowledge not just through case experience, but also through an organized teaching program. The Neuroanesthesia program is designed to gain expertise in the following areas.

CLINICAL CARE

London Health Sciences Centre is a national referral centre for the management of patients with cerebral aneurysms and arteriovenous malformations. In recent years, it has been discovered that surgery for Intractable Epilepsy has valuable therapeutic potential and this has resulted in epilepsy surgery becoming one of the "fastest growth areas" in neurosurgery. Patients are done awake but sedated so that their speech and motor areas of the brain can be mapped prior to surgical excision.

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

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

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

NON-ANESTHESIA EXPERIENCE

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

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

RESEARCH/ACADEMIC ACITIVITIES

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

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



Obstetrical Anesthesia

DR. SANDRA KATSIRIS, DIRECTOR

This past year marked completion of a full year of occupancy for the Obstetrical Anesthesia Program at Western University, as we are now located in the new Grace Donnelly Women's and Children's Health Pavilion, at London Health Sciences Centre, Victoria Hospital. This new, large, functional space is a welcomed change from the previous locations of obstetrical services at Western. The labour/ birthing rooms are quite large and allow for excellent patient management for labour analgesia. In addition, the centrally located cesarean section operating rooms allow for quick transport of patients for operative delivery. The adjacent locations of the antenatal ward, neonatal intensive care unit, and post-partum ward, have significantly improved timeliness and transitioning of patient care. 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, consistent with the prior year, and slightly below the number anticipated for our consolidated site.

Approximately 60% of the deliveries were high-risk. The epidural rate was similar to last year at approximately 75%, and the cesarean section rate was slightly less than 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 once again fully subscribed for this year. Consolidation of services has allowed us to assign two residents to Obstetrical Anesthesia rotations at one time. In addition to core UWO trainees, there were a number of residents from other institutions that chose to come to London for elective experience in obstetrical anesthesia. Dr. Indu Singh has been coordinating these rotations. As in past years, obstetrical anesthesia was a common theme in trainee presentations at regional, national and international meetings.

The Obstetrical Anesthesia Fellowship Program had Dr. Kamal Kumar and Dr. Patricia Kolesnechenko as clinical fellows this past year. Dr. Kumar will stay with us for an additional year of fellowship training, and Dr. Cristiana Miron will be our new fellow for 2012-2013.

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.



Palliative Medicine

DR. VALERIE SCHULZ, DIRECTOR



Dr. Valerie Schulz is the proud recipient of the 2013 Award of Excellence from the Ontario Medical Association Section on Palliative Medicine.

This has been a very productive academic and clinical year for the Palliative Medicine Program. Clinically the service supported Palliative consultations in the Critical Care at LHSC, and dialysis unit at University Hospital. The quality of care in LHSC Critical Care was advanced through integration of the 'Assessment and Management of Delirium in the Intensive Care Unit: A Quality Improvement Initiative'. This was accomplished by partnering with intensivists Drs. Karen J. Bosma and Mithu Sen, and committed Critical Care staff and supported by the Academic Medical Organization of Southwestern Ontario (AMOSO) Opportunities Fund.

National palliative academic highlights involved participating with the Royal College of Physicians and Surgeons of Canada's recent decision to support the subspecialty certification for academic qualification and clinical leadership in Palliative Medicine. This was accomplished through Dr. Valerie Schulz' participation as a Board member for the Canadian Society of Palliative Care Physicians and as a member on the National Advisory Committee in Palliative Medicine.

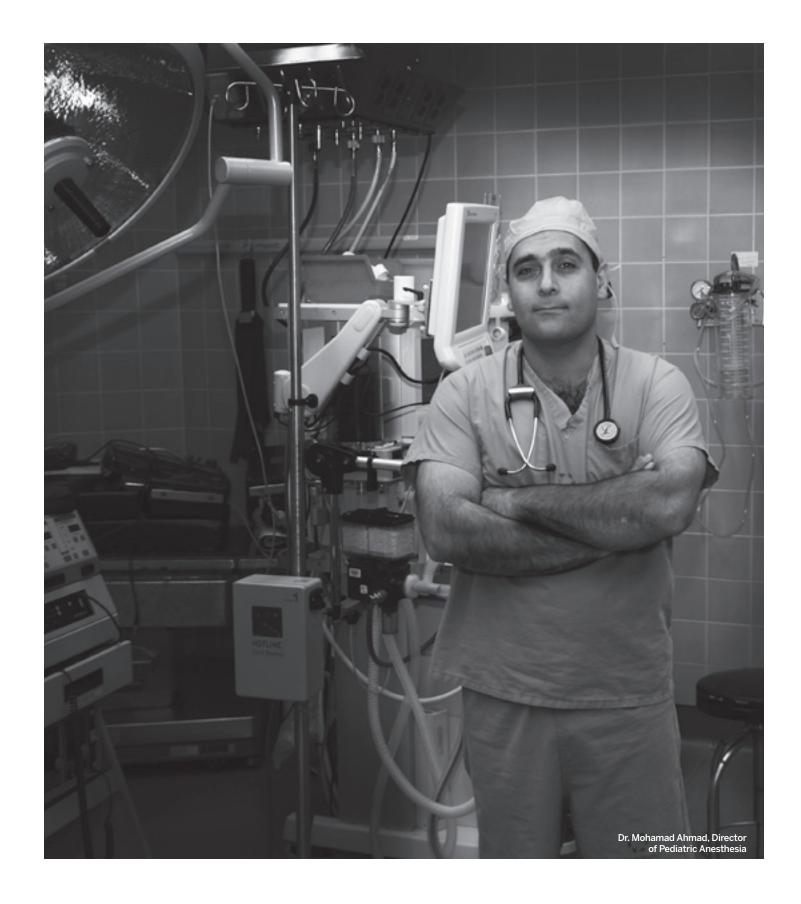
Drs. Valerie Schulz and Dr. Richard Novick (Division of Cardiac Surgery, Western University) published an original article in Seminars in Cardiothoracic and Vascular Anesthesia titled, The Distinct Role of Palliative Care in the Surgical Intensive Care Unit (Semin Cardiothorac Vasc Anesth. 2013 Dec;17(4):240-8). Dr. Schulz and Dr. Lorelei Lingard at the Centre for Education Research and Innovation (CERI), are providing 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.

And in July of 2013, Dr. Schulz became a Professor at Western University, acknowledged for her extensive contributions to the field of Palliative Medicine.

In closing, this work could only have been accomplished through the support of Western's Department of Anesthesia & Perioperative Medicine, under the leadership of Chair and Chief, Dr. Davy Cheng.

In the Literature

Stecho W, Khalaf R, Prendergast P, Geerlinks A, Lingard L, Schulz V. Being a hospice volunteer influenced medical students' comfort with dying and death: A pilot study. J Palliat Care . 2012 Autumn;28(3):149-56.



Pediatric Anesthesia

DR. MOHAMAD AHMAD, DIRECTOR



Our pediatric anesthesia program has maintained its momentum in 2012. We continued to consolidate complex pediatric anesthesia within the pediatric groups while keeping in mind that all anesthesiologists at Victoria Hospital are very much pediatrics-capable. We have also continued the improvements in our academic program with new initiatives such as teaching and resident evaluations. Our Program has received consistently positive feedback from our residents and those from other programs such as pediatrics.

Four of our residents have applied to and been accepted to pediatric anesthesia fellowship programs in Canada, the United States and Australia.

Those that have completed pediatric anesthesia electives at other institutions have returned to give us positive comparative feedback about our own program and teaching. Medical students have also commented that participating in pediatric anesthesia has been especially interesting and rewarding - largely because of the quality of the education provided.

Our visibility and profile has expanded. Various members of our department have presented on pediatric anesthesia locally and at regional conferences in 2012 such as Grand Rounds, the Annual Post Anesthesia Care Conference, and the OMA Annual meeting. In addition, we continue to be invited to sit on more pediatrics-related committees and task forces within London Health Sciences such as pediatric pharmacy and transitional care.

We interviewed a number of potential recruits in 2012/13 and I am pleased to announce that Dr. Raju Poolacherla from the United Kingdom and Dr. Enda Connolly from Ireland have accepted positions in our department.

Dr. Poolacherla completed a pediatric anesthesia fellowship at Great Ormond Street Hospital and has been in clinical practice since 2007. He has extensive experience in quality improvement and will assist us in our own such initiatives. Dr. Connolly is currently finishing pediatric anesthesia and intensive care fellowships at Boston Children's Hospital. He has an interest in simulation and ethics.

Our goal for 2013 is to continue the gains we have made in developing our program. We will implement a continuous quality of care initiative that will also enable us to conduct research within our clinical practices.

We will also expand advanced learning and teaching opportunities for our consultants and residents by increasing subspecialty rounds and establishing a pediatric anesthesia journal club.

Perioperative Blood Conservation Program

The 10th Anniversary Program Report

DR. FIONA RALLEY. DIRECTOR

This year marks the tenth anniversary of the introduction of the each surgical service on their transfusion rates both by procedure Perioperative Blood Conservation Program (PBCP) into the Preand by physician. This way we have been able to detect any negative admit Clinic (PAC) at London Health Sciences Centre (LHSC). Since as well as positive trends in these parameters. Furthermore blood products that are transfused and transfusion triggers, are also its inauguration, the program has grown considerably in size and depth, and is now an integral part of the preoperative assessment tracked. Recently these reports have incorporated the assessment of the surgical patient. Therefore it seems pertinent to review the of one vs. two red blood cell transfusion rates per service. In addition successes that the program has achieved since its conception. any modifications in the PBCP management strategies for patients can be carefully monitored for efficacy and safety.

In the area of orthopedic surgery, transfusion rates for patients undergoing primary major joint replacements has been reduced from 16% to less than 5% this year

1.8% for primary TKJR and 2% for primary THJR. In lieu of this reduction, the calculated result is a cost saving in 2012 of \$438.00 per TKJR patient and \$223.00 per THJR patient. In addition over 250 units of red blood cells were saved.

The success of the program is definitely due to its multidisciplinary approach with representatives from anesthesia, surgery, In the area of cardiac surgery the reduction in transfusion rate is hematology, medicine, blood bank, perfusion, nursing, pharmacy a little less impressive going from 32% to 21% in 2012 for primary and administration. This allows for the free discussion on topics Coronary Artery Bypass Graft (CABG) surgery. However in addition from several standpoints and for the rapid integration of new to this reduction there has been the introduction of the process policies once incorporated into the program. As always the PBCP of acute normovolemic hemodilution with product splitting. This extends an invitation to anyone who wishes to enquire about any process has been used to reduce the transfusion rates in our of our many patient blood management strategies to contact any complex cardiac surgical procedures with great success, and has member of the program. also been the topic of a recent publication.

The management of any patient who refuses blood products, whether for religious reasons or not, has always been a challenging scenario

Over the past few years the PBCP has developed a management pathway and strategy to improve the care of these individuals by the implementation of a standard refusal form, and that all patients. where exists the possibility of significant blood loss associated with their surgical procedure, are referred to the PBCP for assessment and optimization.

Since the beginning of the program, education and research has been a major component. In 2006 with the introduction of the PBCP transfusion database we have been able to send biannual reports to

Over the past ten years members of the PBCP have participated in multiple meetings for a variety of societies, presenting on various perioperative blood management strategies. At present there have been seven publications in major journals, and multiple abstract presentations at meetings provincially, nationally and internationally. Members of the PBCP are active on the boards of several major societies and the program is nationally and internationally recognized. This is attested to by the numerous speaking requests that have been made to members of the PBCP over the last 10 years. At present three different research projects are currently in progress under the umbrella of the program.

Read More

Chu MW, Losenno KL, Moore K, Berta D Hewitt J, Ralley F. Blood conservation strategies reduce the need for transfusions in ascending and aortic arch surgery. Perfusion. 2013 Jul;28(4):315-21.

Regional Anesthesia & Acute Pain

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 Practicioners' 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.



ADDITIONAL MEASURES

Over the past year there has been considerable effort and education toward improving perioperative pain management through the expanded use of multimodal analgesia.

More recently there has been pharmacy and therapeutics (P&T) approval for the use of lidocaine infusions as well as the addition of ketamine to intravenous opioid, patient controlled analgesia (PCA). Kate Ower, Heather Fisher, Ian McConachie, Michael Pariser and others, have been influencial in leading the way for developing new protocols, providing education and implementing the use of the agents for our patients who would most benefit.

LHSC AND ENHANCED RECOVERY SERVICES (ERAS)

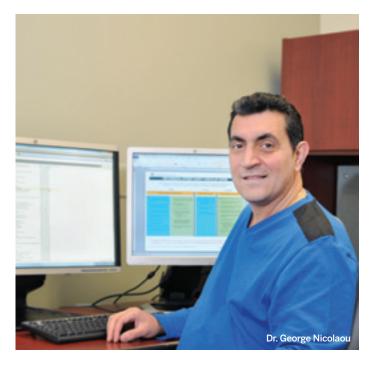
With the leadership of Chris Harle and Chris Schlachta (surgery) LHSC has entered into the ERAS program. This initiative is designed to assess the adherence and outcomes of evidence informed practices which improve recovery after colorectal surgery. In addition to some measures which affect traditional 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/ algorith.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

control and to keep up on current events. Bobbi Jo Morrell, Kate Ower, Heather Fisher and Ian Herrick through HUGO (Health UnderGoing Optimization) have provided great input The majority of vascular and thoracic patients coming through to the anesthesia orders which will become part of the electronic our institution have multiple co-existing diseases including severe ordering system. One aspect of the orders will be those orders used cardiorespiratory compromise. These patients have an extensive by the APS and RA groups. Over the coming year (early 2014), the preoperative evaluation by anesthesia and/or internal medicine, implementation will be enhanced due to their contributions. cardiology and respirology.



Thoracic and Vascular Anesthesia

DR. GEORGE NICOLAOU, DIRECTOR AND FELLOWSHIP COORDINATOR

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 multidisciplinary rounds with our surgical colleagues to assure quality

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 stepdown monitored units with invasive monitoring capabilities.

THORACIC SURGERY

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

Our Transesophageal Program is well developed with formal teaching and multi-disciplinary 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 anesthetist involved in vascular anaesthesia is experienced in TEE, there is usually one anesthetist experienced in TEE available for guidance.

RESEARCH PROJECTS IN PROGRESS

- The influence of CPAP and PEEP (with a recruitment maneuver) on PaO2 during one lung ventilation, employing a lung protective ventilation strategy;
- Treatment modalities for spinal cord protection;
- Use of near-infrared spectroscopy for monitoring spinal cord perfusion in endovascular repair of thoracic aortic aneurysms;
- · Biochemical markers of spinal cord ischemia in patients undergoing thoracic aortic endovascular repair.

RESIDENTS TRAINING

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

There have been recent changes in the donor organ allocation frontier of enhanced learning. policy in Ontario, adopting the MELD scoring system. This has significantly affected our total number of transplants as many local donor organs (which would have stayed locally) have been sent to **SUMMARY** other centers. This year, the group provided anesthetic care to 51 adult liver transplant recipients including 6 critically ill patients from Overall, the Thoracic and Vascular Program at Victoria Hospital is the ICU. The organs came from 43 brain dead donors while 8 were a very busy program with an incredible variety of interesting and donations after cardiac death. There was one living related liver complex cases. It is constantly evolving to keep up with medical transplant. During the same period, we also provided anesthetic and technological advances and to ensure that patients receive the care for over 75 major liver resections and several major hepato-bilmost optimal perioperative care currently available. The program iary surgeries. Dr. Roberto Hernandez, from liver transplant surgery offers excellent opportunities for fellows to become proficient in team is the pioneer in starting 'Associating Liver Partition with adult and pediatric thoracic/vascular anesthesia and transesopha-Portal Ligation for Staged hepatectomy' (ALPPS) procedure. ALPPS geal echocardiography, both in a clinical and research setting. It is is the hope for patients with extensive hepatic malignancies which designed to meet the individual's needs, along with the best expootherwise are deemed unrespectable. Preliminary results have been sure to the available clinical caseload. excellent and our group plays a significant role in the success of this particular procedure.



Transplant (Liver) Anesthesia

DR. ACHAL DHIR, DIRECTOR

The Liver Transplantation Program continues to provide excellent care to one of the sickest patient population. The group consists of five highly experienced consultants: Drs. Achal Dhir, Wojciech Dobkowski, Christopher Harle, Fiona Ralley and Anthony Vannelli

(continued)

(continued...Transplant Anesthesia)

We also do preoperative assessment and optimization of patients before they are listed for orthotropic liver transplant. Every effort is made to attend 'Transplant Assessment' rounds before enlisting the patients, M & M rounds as well as the Bon- Mots rounds.

We also run a very successful fellowship program. Dr. Steve Morrison, after completing his residency at LHSC and passing the FRCPC exam, has joined as a liver fellow. Along with him, are two highly motivated international fellows. We are hoping that Steve will join the group after completing his fellowship. The fellows, apart from getting excellent clinical experience, are also involved with research and academic activities. From this year, the fellows are getting TEE experience as part of their training. We feel that it is an important skill to have in managing patients with hemodynamic instability.

The group meets every month for Problem Based Learning Discussions (PBLD) and discussing journal articles.

SUB-SPECIALTY JOURNAL CLUB / PBLD

- 2012 Sep 11: Liver Transplantation in Jehovah's Witnesses: Anesthesia issues
- 2012 Oct 06: CV complications after liver transplantation
- 2012 Dec 04: Liver transplant anesthesia in cardiac patients
- 2013 Feb 03: Anesthetic management of ESLD patient for non-transplant surgery

- 26 March, 2013: Anesthetic management of Hepatectomy in a patient with carcinoid syndrome
- 2013 Apr 25: Intraoperative intra-cardiac thrombus during liver transplant.
- 2013 Jun 06: Anesthesia for the post-liver transplant patient

ONGOING RESEARCH PROJECTS

The Study of peripheral microcirculatory dysfunction in endstage liver disease patients during liver transplantation using near infrared spectroscopy.

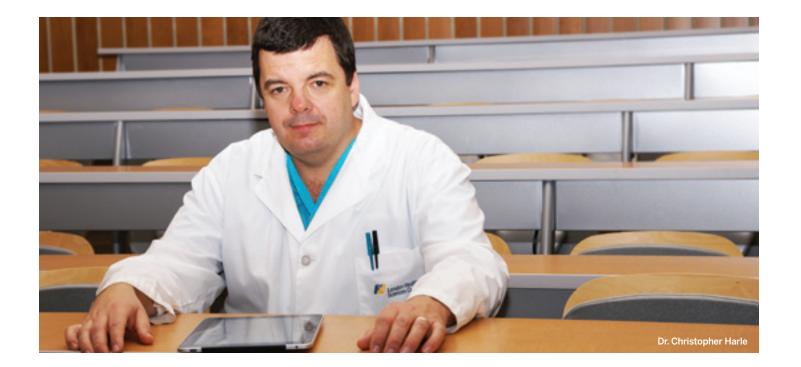
Infusion of ketamine and Lidocaine for pain management after major liver resection. We have enrolled more than 80 patients.

Extended donor criteria and orthotropic liver transplantation - an outcome study of the Canadian system.

Liver transplantation in patients with grade 4 encephalopathy: differences between fulminant and acute on chronic hepatic failure.

OTHER ACADEMIC ACTIVITES

For the past 7 years, the group has been successfully organizing the 'Transplant symposium' or 'Case discussions' for the annual Canadian Anesthesiologists Society meetings. Case discussion for the June 2013 conference was titled: 'Non Transplant surgeries in transplant patients'. Unfortunately, the CAS was cancelled at the last minute because of massive floods in Calgary



Centre for Medical Evidence, Decision Integrity, Clinical Impact (MEDICI)

DR. JANET MARTIN, PROGRAM DIRECTOR

DR. DAVY CHENG. MEDICAL DIRECTOR DR. LI WANG. SYSTEMATIC REVIEWER DR. AVTAR LAL, SYSTEMATIC REVIEWER DR. AVA JOHN-BAPTISTE, HEALTH ECONOMIST DR. JUNSEOK JEON. VISITING PROFESSOR (SEOUL, KOREA) JESSICA MOODIE, EVIDENCE & INFORMATION RETRIEVAL **EXPERT AND ADMINISTRATIVE SUPPORT**



Medical Evidence **Decision Integrity Clinical Impact**

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 (LHSC), 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:
- To provide educational opportunities for local decision-makers 2. and students to build capacity in evidence-informed decisionmaking 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 heal 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 Fvidence + Fthics + 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

ONGOING MEDICI PROJECTS

SURGERY, ANESTHESIA & CRITICAL CARE

- Orthopedic Surgery: Optimizing Technologies & Techniques
- across Patient Pathway of Care for Joint Replacements
- Prehabilitation: Is it worth it for patients planning to undergo hip or knee replacement?
- Vascular Surgery: Optimizing Technologies & Techniques across Patient Pathway of Care
- Colloids vs Crystalloids for Acute Care
- Voluven vs Crystalloids in ICU and Surgery
- Dexmedetomidine for ICU and Surgery
- Inhaled Nitric Oxide when is it safe, effective and cost-effective?
- TAVI quantifying the learning curve

MENTAL HEALTH

• For whom is ECT safe, effective, and cost-effective?

AWARDS

Best Poster Award, Ketamine Plus Morphine for Patient Controlled Analgesia: A Meta-Analysis. Co-Authors: Wang L, Johnston B, Kaushal A, Cheng D. Canadian Anesthesiologists' Society (CAS) Annual Meeting, 2013

EPICOR EPICOR EVICEDR

EPICOR MEMBERS: DR. DAVY CHENG, DR. JANET MARTIN, AND DR. DANIEL BAINBRIDGE

The Evidence Based Perioperative Clinical Outcomes Research (EPiCOR) Group is a multidisciplinary collaboration between Perioperative Medicine & Anesthesia, Surgery, Pharmacy, Medicine, and Pharmacology whose mandate is to provide comprehensive

systematic reviews, meta-analyses, and health technology assessments of new and existing technologies including medical devices and equipment, surgical and other interventional procedures, drugs and diagnostic techniques in order to inform important perioperative clinical and economic questions with best available evidence.

Our goal is to identify, synthesize, and translate best evidence into decisions for policy and everyday practice, and to collaborate with others in this mission locally, nationally, and internationally.

The EPiCOR Group has completed research in the following areas:

PERIOPERATIVE SUPPORTIVE CARE

- Patient Controlled versus Nurse Controlled Analgesia
- NSAIDs versus Non-NSAID Multimodal Analgesia
- Cox-2 Selective Perioperative Analgesia
- Amiodarone Perioperatively
- Postoperative Nausea and Vomiting
- Perioperative Gastric Acid Suppression
- Levosimendan for Prevention of Arrhythmia and Death
- Dexmedetomidine for Prolonged ICU Sedation
- Dexmedetomidine for Awake Fibreoptic Intubation
- Dexmedetomidine for Craniotomy
- Dexmedetomidine for MAC
- Ketamine for Post-operative Analgesia

BLOOD CONSERVATION

- Antifibrinolytics
- Synthetic Colloids versus Albumin
- IV Irons
- Perioperative Erythropoeitics
- Ultrafiltration
- Miniaturized Circuits
- Cell Saver

MINIMALLY INVASIVE SURGICAL METHODS

- Off-Pump versus On-Pump Coronary Artery
- Transcatheter Aortic Valve Implantation (TAVI)

BYPASS SURGERY

- Endovascular versus Open Vein Harvest for CABG (EVH)
- Thoracic endovascular Aortic Repair versus Conventional
 Open Repair (TEVAR)



- Minimally invasive versus conventional mitral valve surgery (MI-MVS)
- Transcatheter Aortic Valve Intervention Innovative Surgical & Imaging Techniques
- Stentless Valves versus Conventional Valves for Aortic Valve Replacement
- Multislice CT, MRI, TEE/TTE Ultrasound versus Angiography for Aortic Dissection
- Surgical AF Ablation (MAZE and related procedures)
- Video-Assisted Thoracic Surgery (VATS)
- •

INTERNATIONAL COLLABORATION

In addition, EPiCOR has collaborated with other international groups to perform evidence-based systematic reviews and consensus statements.

These forums provide a unique opportunity to teach surgeons, anesthesiologists and related healthcare personnel about evidencebased decision-making, meta-analysis and systematic review. The

following areas have been addressed by consensus conferences led
by EPiCOR:

x x	•	Off-Pump Coronary Artery Bypass Surgery (OPCAB)
	•	Endovascular Vein Harvest (EVH)
	•	Video-Assisted Thoracic Surgery for Lung
,	•	Cancer (VATS)
	•	Transmyocardial Revascularization (TMR)
	•	Stentless Aortic Valves (SAV)
	•	Ablation of Atrial Fibrillation (AFL)
	•	Thoracic Endovascular Aortic Repair (TEVAR)

- Minimally invasive mitral valve repair (MI-MVS)
- Perioperative Colloids (HES, Albumin, Gelatins)
- Blood Management Drugs, Devices, & Procedures
- Perioperative Antibiotic Prophylaxis
- Transcathether aortic valve implantation (TAVI)

LEADERSHIP **POSITIONS &** PROFESSIONAL CONTRIBUTIONS

DR. JANET MARTIN

- Chair, HTA Exchange, supported by the Canadian Agency for Drugs and Technologies in Health (CADTH), April 2012 to April 2014
- Chair. Canadian Hospital/Regional-Based HTA Network, in partnership with Ottawa Health Research Institute (OHRI) and AdHopHTA (European Commission funded network of hospital HTA units), and supported by CADTH 2013 to present
- Faculty, Ulysses International Master of Sciences in Health Technology Assessment & Management, 2009 to present
- Member, Coordinating Committee for Curriculum & Program Oversight of the Ulysses Master of Science in Health Technology Assessment & Management (MScHTA&M), 2009 to present
- Collaborator, International Task Force On Decision Criteria. Collaborators include University of Montreal, Evidem, University of York, University of Twente, Radboud University, and CIHR, 2011 to present
- Pan-Canadian Health Technology Assessment Collaborative (Health Canada, CADTH, HTA Exchange, Policy Forum, and selected representative agencies involved in HTA or decisionmaking at HTA agency level and MOH level), 2012 to present
- Member & Clinical Reviewer, Committee to Evaluate Drugs, Ministry of Health & Long Term Care (MOHLTC), 2004 to present
- Member, Drugs for Rare Diseases Policy Working Group, Ministry of Health & Long Term Care (MOHLTC), 2008 to present
- Co-Developer. Policy Framework for Drugs for Rare Diseases, Ontario

Framework for Drugs for Rare Diseases (DRDs), Ministry of Health & Long Term Care (MOHLTC), 2008 to present

- Member, Advisory Committee on CME (ACCME). Schulich School of Medicine & Dentistry, 2003 - 2013
- Associate Scientist, Lawson Health Research Institute, 2003 to present

PROFESSIONAL MEMBERSHIPS

- Centre for Evidence-Based Medicine. Oxford, England
- CNESH Horizon Scanning,
- CADTH HTA Exchange
- Health Technology Assessment International (HTAi)
- Society of Medical Decision Making (SMDM)
- Canadian Society of Hospital . Pharmacists
- Ontario College of Pharmacists

SELECTED PRESENTATIONS

Introduction to Hospital-Based HTA (HB-HTA). Health Technology Assessment International (HTAi) 10th Annual Meeting (Seoul, KO), June 2013

Hospital & Regional HTA: Managing the Interface to Optimize KT. Health Technology Assessment International (HTAi) 10th Annual Meeting (Seoul, KO), June 2013

Evidence-Based Decision-Making & Knowledge Translation. Invited Workshop for the International Anesthesia Research Society (IARS) Annual Meeting (San Diego, CA), May 2013

Barriers to Uptake of HTA. CADTH Annual Symposium on Health Technology Assessment (St. John's, NL), May 2013

Quantifying the Opportunity Cost. Session Chair & Presenter. CADTH Annual Symposium on Health Technology Assessment (St. John's, NL), May 2013

Health Technology Assessment & Knowledge Translation: Where theory intersects with

reality. Special Lecturer & Course Provided at the University of Barcelona, Graduate School of Economics (Barcelona, Spain), May 2013

Know4Go: Bringing Evidence, Economics, Ethics and 'Everything Else' into Health Technology Decision-Making. Special Lecturer & Course Provided at the University of Barcelona, Graduate School of Economics (Barcelona, Spain), May 2013

OPCAB vs CABG: Applying your knowledge to a real world case. University of Barcelona, Graduate School of Economics (Barcelona, Spain), May 2013

Bias & Error in Decision-Making. University of Barcelona. Graduate School of Economics (Barcelona, Spain), May 2013

International Collaboration for Hospital HTA. Invitation to collaborate in Hospital HTA with Seoul Hospital and Korean MOH (Seoul, KO). April 2013

Off-Pump vs On-Pump Bypass Surgery: An updated meta-analysis, Seoul National University (SNU), Seoul, Korea, April 2013

Off-Pump Bypass Surgery – Who benefits from innovation? Society for Cardiothoracic Anesthesia (SCA) Annual Meeting (Miami, FL), April 2013

Knowledge Translation in Mental Health: Defining our Priorities & Measuring our Impact. Regional Mental Health Grand Rounds (London, ON), March 2013

Colloids vs Crystalloids - What should be the role of Voluven in Surgery and Critical Care? A Systematic Review & Economic Analysis. Citvwide Critical Care Grand Rounds (London. ON), February 2013

Colloids vs Crystalloids – What should be the role of Voluven in Surgery and Critical Care? A Systematic Review & Economic Analysis. Pharmacy & Therapeutics Committee, St. Joseph's Health Care London (London, ON), February 2013

Colloids vs Crystalloids – What should be the role of Voluven in Surgery and Critical Care? A Systematic Review & Economic Analysis. Citywide Anesthesia Grand Rounds (London, ON), January 2013

Evidence-Based Decision-Making & Health Technology Assessment. Update in Clinical Anesthesia (Curacao, NL) January 2013

Off-Pump Bypass Surgery: An Update. Update in Clinical Anesthesia (Curacao, NL) January 2013

Colloids vs Crystalloids – What should be the role of Voluven in Surgery and Critical Care? A Systematic Review & Economic Analysis. Drug & Therapeutics Committee, London Health Sciences Centre (London, ON) January 2013

Update on HTA in Canada. Pan-Canadian HTA Collaborative, Health Canada (Ottawa, ON) November 2012

Dexmedetomidine for Awake Fibreoptic Intubation: A Meta-Analysis. Drug & Therapeutics Committee (London, ON) October 2012

Dexmedetomidine for Monitored Anesthesia Care and Procedural Sedation: A systematic review. Drug & Therapeutics Committee (London, ON) October 2012

PUBLICATIONS

Martin J, Cheng DC. Perioperative Blood Management: Cardiac Surgery. Waters J (editor). 3rd ed. AABB Press, Bethesda, Maryland. 2013.

Neumann I, Letelier LM, Rada G, Claro JC, Martin J, Howden CW, Yuan Y, Leontiadis GI. Comparison of different regimens of proton pump inhibitors for acute peptic ulcer bleeding. Cochrane Database Syst Rev 2013 Jun 12;6:CD007999.

Louzada ML, Hsai CC, Ralley F, Lazo-Langner L, Xenocostas A, Martin J, Connelly S, Berta D, Binns V, Chin-Yee IH. A pilot study to assess the feasibility of a randomized controlled trial to compare the safety of intravenous iron dextran versus iron sucrose in non-hemodialysis adult patients. (Submitted)

Martin J, Cheng D. Health Economics & Governance: Anesthesiologists in Wider Governance and Health Economics. Can J Anesth 2013;60(9):918-928. Epub 2013 Jul 3

Bainbridge D, Martin J, Arango M, Cheng D. Anaesthetic-related mortality in sub-Saharan Africa – Authors' reply. Lancet 2013;381(9862):199-200.

Coyle D, Bell CM, Clarke JTR, Evans G, Gadhok A, Martin J, Sabharwal M, Winguist. Application of operations research to funding decisions for treatments with rare disease. Operations Res Health Care Policy 2013;190:281-294

Barkun AN, Bhat M, Armstrong D, Dawes

M, Donner A, Enns R, Martin J, Moayyedi P, Romagnuolo J, Tugwell P. Effectiveness of disseminating consensus management recommendations for ulcer bleeding: A national cluster randomized trial. CMAJ 2012 epub CMAJ-12-0095.R1.

Winquist E, Bell CM, Clarke JT, Evans G, Martin J, Sabharwal M, et al. An evaluation framework for funding drugs for rare diseases. Value in Health 2012 Sep-Oct;15(6):982-6.

Bainbridge D, Martin J, Arango M, Cheng D, for the Evidence-Based Perioperative Clinical Outcomes Research (EPiCOR) Group. Perioperative and anaesthetic-related mortality in developed and developing countries: a systematic review and meta-analysis. Lancet 2012 Sep 22;380(9847):1075-81.

Martin J, Cheng D. Tranexamic acid for routine use in off-pump coronary artery bypass surgery: evidence base "fait accompli" or further research needed? Anesth Analg. 2012 Aug;115(2)227-30.

PRESENTATIONS

DR. AVTAR LAL

- February 27, 2013
- 27, 2013
- on February 14, 2013.

DR. DAVY CHENG

Republic) June 14, 2013.

MEDICI

 Development of Evidence Based Clinical Practice Guidelines. All India Institute of Medical Sciences. (New Delhi, India)

The Role of Development of Systematic Review and Evidence Based Clinical Practice Guidelines in Pediatrics in India. University College of Medical Sciences and GTB Hospital (Delhi, India) February

The Methodology of Development of a Systematic Review and Evidence Based Clinical Practice Guidelines. Maulana Azad Medical College and GB Pant Hospital. (New Delhi, India) February 19, 2013

The Methodology of Development of a Systematic Review. Government Medical College and GN Hospital (Amritsar, India)

ISMICS 2013 Consensus Statements on OPCAB Surgery in Elderly Patients. ISMICS Annual Meeting (Prague, Czech

- OPCAB versus CCAB Revisit: Risks and Benefits. ISMICS 2013 Expert Panel Consensus Conference. "OPCAB/Off-Pump Surgery" (Dublin, Ireland) May 25, 2013
- Evidence-Based Decision-Making and Knowledge Translation in Health Technology Assessment; Perioperative Antiplatelet Drugs With Coronary Stents and Dancing With Surgeons: Can We Ever Agree About Bleeding Versus Ischemic Risk? IARS Education Symposium (San Diego, CA, USA) May 4-7, 2013
- Health Technology Assessment and Knowledge Translation: Evidence to Guidelines to Practice - the Road Less Traveled; Consensus Statements on Perioperative Blood Management in Cardiac Surgery. Visiting Professorship, Heart and Vascular Institute, Cleveland Clinic (Cleveland OH, USA) April 26, 2013
- Knowledge Translation: Evidence to Guidelines to Practice- the Road Less Traveled; Transfusion & Haemostasis-Blood Management Strategies in Cardiac Surgery. Korea Society of Cardiothoracic Anesthesiology Annual Meeting (Seoul, Korea) April 12-15th, 2013
- Challenging cardiovascular cases in the hybrid operating room. SCA 35th Annual Meeting, Problem-Based Learning Discussion, (Fontainebleau Miami, Florida). April 7, 2013
- OPCAB in High Risk Elderly Patient-Outcomes; Health Technology Assessment and Knowledge Translation: Evidence to Guidelines to Practice - the Road Less Traveled. 31st Annual Symposium, New York Mount Sinai Hospital, Clinical Update in Anesthesiology, Surgery and Perioperative Medicine (Curacao, Netherlands Antilles) Jan 21-25th, 2013
- Evidence-Based Practice: What is Evidence? UCSD Anesthesiology Update 2013 (San Diego, California) January 1, 2013
- Knowledge Translation: Evidence to Guidelines to Practice- the Road Less Traveled; Applying Health Technology Assessment and Knowledge Translation-Case Study of Transcatheter Aortic Valve Implantation (TAVI). University of California San Diego (UCSD) Medical Center (San Diego, CA, USA) January 15-17, 2013

(continued....Dr. Davy Cheng, presentations)

- Best Evidence Practice iNO Cardiac and Critical Care: Clinical Benefits or Cost Burden? 13th International Congress of Cardiothoracic and Vascular Anesthesia (Auckland, New Zealand) November 14 -17th, 2012
- Setting Up Academic Anesthesiology Department: Canadian Perspective. The Society of Academic Anesthesiology Chairs (USA) Annual Meeting (San Francisco, CA, USA) November 1-3, 2012
- CanMEDS Leadership and Professionalism. Critical Care Western (London, Ontario) September 27, 2012
- OPCAB Surgery in Elderly Patients: Evidence of Benefits? The 3rd ISCA International Symposium for Cardiac Anesthesia (Sendai, Japan) Sep 13 - 15th, 2012
- Cardiac Surgery & Anesthesia: Past, Present, and Future; Quality Assurance in TCV Surgery & Anesthesia Valve Implantation: Transcatheter Valve Implantation. The Chinese Heart Congress (Beijing, China) Aug 9-12th, 2012

DR. JANET MARTIN

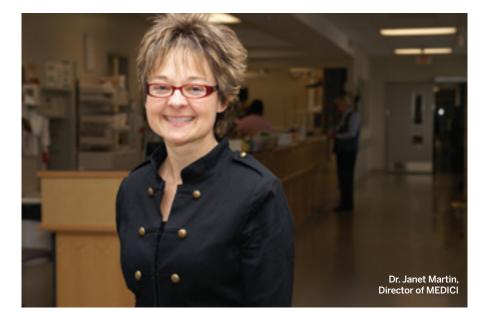
- Introduction to Hospital-Based HTA (HB-HTA). Health Technology Assessment International (HTAi) 10th Annual Meeting (Seoul, KO), June 2013
- Hospital & Regional HTA: Managing the Interface to Optimize KT. Health Technology Assessment International (HTAi) 10th Annual Meeting (Seoul, KO), June 2013
- Knowledge Translation. Invited Workshop for the International Anesthesia Research Society (IARS) Annual Meeting (San Diego, CA), May 2013
- Barriers to Uptake of HTA. CADTH Annual Symposium on Health Technology Assessment (St. John's, NL), May 2013
- Quantifying the Opportunity Cost. Session Chair & Presenter. CADTH Annual Symposium on Health Technology As sessment (St. John's, NL), May 2013
- Health Technology Assessment & Knowledge Translation: Where theory intersects with reality. Special Lecturer & Course Provided at the University

of Barcelona, Graduate School of Economics (Barcelona, Spain), May 2013

- Know4Go: Bringing Evidence, Economics, Ethics and 'Everything Else' into Health Technology Decision-Making. Special Lecturer & Course Provided at the University of Barcelona, Graduate School of Economics (Barcelona, Spain), May 2013
- OPCAB vs CABG: Applying your . knowledge to a real world case. University of Barcelona, Graduate School of Economics (Barcelona, Spain), May 2013
- Bias & Error in Decision-Making. University of Barcelona, Graduate School of Economics (Barcelona, Spain), May 2013
- Off-Pump Bypass Surgery Who benefits from innovation? Society for Cardiothoracic Anesthesia (SCA) Annual Meeting (Miami, FL), April 2013
- Knowledge Translation in Mental Health: . Defining our Priorities & Measuring our Impact. Regional Mental Health Grand Rounds (London, ON), March 2013
- . Off-Pump vs On-Pump Bypass Surgery: An updated meta-analysis, Seoul National University (SNU), Seoul, Korea, April 2013
 - International Collaboration for Hospital HTA. Invitation to collaborate in Hospital HTA with Seoul Hospital and Korean MOH (Seoul, KO), April 2013

- Colloids vs Crystalloids What should be the role of Voluven in Surgery and Critical Care? A Systematic Review & Economic Analysis. Citywide Critical Care Grand Rounds (London, ON), February 2013
- Evidence-Based Decision-Making & Health Technology Assessment. Update in Clinical Anesthesia (Curacao, NL) January 2013
- Off-Pump Bypass Surgery: An Update. Update in Clinical Anesthesia (Curacao, NL) January 2013
- Colloids vs Crystalloids What should be the role of Voluven in Surgery and Critical Care? A Systematic Review & Economic Analysis. Drug & Therapeutics Committee, London Health Sciences Centre (London, ON) January 2013
- Update on HTA in Canada. Pan-Canadian HTA Collaborative, Health Canada (Ottawa, ON) November 2012
- . Intubation: A Meta-Analysis. Drug & Therapeutics Committee (London, ON) October 2012
 - Dexmedetomidine for Monitored Anesthesia Care and Procedural Sedation: A systematic review. Drug & Therapeutics Committee (London, ON) October 2012





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Fellows

Omar Ageel Cardiac (UH)

Hilda Alfaro Cardiac (UH)

Arwa Alzahrani Simulation (VH)

Fatimah Daynan Al-Salah Transplant (UH)

Kirk Duguay Cardiac (UH)

Erika Dutz Simulation (VH)

Ameerah Filemban Neuro (UH)

Mauricio Giraldo Cardiac (UH)

Khalid Hanish Cardiac (UH)

Kamal Kumar OB (VH)

Maria Lopera Velasquez Regional (SJHC & UH)

Ashish Malik Transplant (UH)

Steve Morrison Transplant (UH) Ramesh Sai OB (VH)

Rakesh Sondekoppam Viiavashnakar

Regional (UH & SJHC)

Aphichat Suphathamwit Transplant (UH)

Outaiba Tawfic Chronic Pain (SJHC)

Vishal Uppal

Sze Ying Thong

Regional (UH)

AL-GHAZALY.

BANASCH.

Samer PGY3

Matthew PGY2

BEBBINGTON.

Fraser

CHIN.

Melissa

CUSANO,

DAHROUJ.

Dalal PGY1

Fiorenzo PGY3

PGY2

PGY2

Residents

Regional (UH)

KHALAF,

Roy PGY1 KUSZEWSKI,

LANDRY, Jennifer PGY4

LIN. PGY2 Bill

LOUGHEED. Sean PGY3

LUDWIG. Nathan PGY2

MANJI, Farah PGY3

McFARLING, Matthew PGY4

JASUDAVISIUS,

JIANG.

Joanna PGY5

DION.

GAI.

FRIDFINNSON. Jason PGY1

Nan PGY1

HEGAZY. Ahmed PGY5

Amanda PGY2

Jessica Ming PGY1

Peter PGY5

MORRISON, Stephen PGY5

MYSLIWIEC, Bart PGY3 FMA

NGUYEN. Don PGY1

PARISER. Michael PGY4

PATEL Sanjay PGY5

PHILLIPS. Colin PGY2

REWARI. Abhitej PGY2

QUIGLEY, Nicole PGY1

RACINE. Jennifer PGY4

RIDDELL. James PGY4

SCHINDEL. Mark PGY3

SCHULTZ. William PGY1

SCHWARTZ. Amanda PGY5

SMALLWOOD, Jennifer PGY3 SMITH. Ryan PGY5

SOMMERFREUND. David PGY4/5

STALDER. Marc PGY5

TAAM. Lindsay PGY4

THORNTON, Alistair PGY3

VERGEL DE DIOS Jennifer PGY4

VETHANAYAGAM Adrian PGY4

YOUSSEF. Hesham PGY1

ZHOU, Ray PGY3

Awards & Honours



[L to R] Dr. Ray Kao, Department of Emergency Medicine, Critical Care Division, Dr. Davy Cheng, Chair/Chief of the Department of Anesthesia and Perioperative Medicine, and Dr. Brian Church, of Anesthesia and Perioperative Medicine

ANESTHESIOLOGIST DR. BRIAN CHURCH, AND THE ROLE 3 MULTINATIONAL MEDICAL UNIT RECEIVE NATO'S HIGHEST HONOURS

In late 2005. Canadian Forces Health Services (CFHS) was tasked with the command of the NATO Role 3 Multinational Medical Unit (R3MMU) on Kandahar Airfield in southern Afghanistan. Preparations drew on past experience and planning. Eight complete hospital contingents were trained and deployed in rotation. Nearreality simulation training was undertaken with the combat brigade, including complete deployment of the field hospital in the exercise area. Standard operating procedures (SOP) were developed and applied by each rotation so successfully that they were adopted by the new command in late 2009. The Canadian period at R3MMU had the highest survival rate ever recorded for victims of war.

Lessons learned are being applied among victims of the conflict and trauma. The experience of the R3MMU was used to successfully deploy a hospital as part of the earthquake relief effort in Haiti in 2010. The training protocols and SOP are being applied to disaster preparedness in Canadian civilian hospitals [abstract]¹

The Dominique-Jean Larrey Award was awarded to Canada for its establishment and command of the NATO Role 3 Multinational Medical Unit at Kandahar Airfield, Afghanistan, from 2006 to 2009. It was the first ever NATO multi-national field hospital involved in combat operations.

Each year for the past six years Dr. Vivian McAlister has packed up his scrub caps and headed to the NATO Role 3 Multinational Medical Unit at Kandahar Airfield, Afghanistan. There, along with other Schulich Medicine & Dentistry faculty members Drs. Ray Kao, Critical Care, Brian Church, Anesthesia and Perioperative Medicine, and Surgery resident Rich Hilsden, they have established the highest survival rate for war victims recorded to date. In recognition for their outstanding contributions, the NATO Role 3 Multinational Medical Unit, was just awarded with the Dominique-Jean Larrey Award, the highest NATO honour for medical achievements in Afghanistan.

The NATO Role 3 Multinational honours those Indians who have made their mark overseas. The Department wishes to congratulate Dr. Dhir on this momentous achievement and honour Medical Unit has established the highest survival rate for war DR. IVAN IGLESIAS IS AWARDED THE SILCOX-FELLOWS AWARD FOR EXCELLENCE IN victims recorded to date...

It is awarded in recognition of a significant and lasting contribution to NATO multi-nationality and/or interoperability or to improvements in the provision of health care in NATO missions within the areas of military medical support or military healthcare development. This is only the second time the award has been granted. Dr. McAlister and his Role 3 team, are now in the middle of a three month deployment in Kabul where his unit is assisting the Afghan people in the development of residency training programs in Generalsurgery, Orthopaedics, Urology, ENT/ maxillofacial surgery, Internal Medicine and Critical Care.

Read More about the R3MMU

¹Brisebois R, Hennecke P, Kao R, McAlister V, Po J, Stiegelmar R, Tien H; Canadian Forces Health Services **Research Consortium. The Role 3 Multinational Medical** Unit at Kandahar Airfield 2005-2010. Can J Surg. 2011 Dec;54(6):S124-9

Brisebois RJ, Tien HC. Surgical experience at the Canadian-led Role 3 Multinational Medical Unit in Kandahar, Afghanistan. J Trauma. 2011 Nov;71(5 Suppl 1):S397-400.

DR. ACHAL DHIR RECEIVES PRESTIGIOUS HIND RATTAN AWARD

2013 Jan: Dr. Achal Dhir, Director of Transplant Anesthesia and Associate Professor in the Department of Anesthesia and Perioperative Medicine at Western University, has received the prestigious Hind Rattan Award (Jewel of India) by the Non Resident Indian (NRI) Welfare Society of India, on January 25, 2013 (the eve of Republic Day). The award is given to approximately 25 eminent NRI's from various parts of the world at the Annual International Congress. The society has a mandate to promote unity, progress, friendship and co-operation and

UNDERGRADUATE MENTORING

2012 Oct: Dr. Ivan Iglesias was presented with the Silcox-Fellows Mentorship Award at Michael's Garden, Great Hall. Dr. Jim Silcox presented him with the distinction and spoke very kindly of Ivan's evident passion and love for education and the many students who have benefited from it over the last 10 years.

After accepting the award, Dr. Iglesias expressed his thoughts on why faculty mentorship for students is so important and how mentorship for students continues to be an enjoyable and satisfying experience for him.

THE MEDICAL ADVISORY COMMITTEE (MAC) RECOGNIZES DR. WILLIAM SISCHEK WITH THE 2012 SJHC MAC AWARD

2012 Dec: The Medical Advisory Committees (MAC) annually recognizes hospital and Professional Staff who go "above and beyond the call of duty". These individuals are acknowledged for their outstanding contributions to London Health Sciences Centre (LHSC) and St. Joseph's Health Care, London (St. Joseph's) through nominations endorsed by the Medical Advisory Executive Committee.

This year, Dr. Bill Sischek, City-wide Clinical Coordinator and St. Joseph's Health Care London's (SJHC) Site Chief for the Department of Anesthesia and Perioperative Medicine, recieved the SJHC MAC Award. "Dr. Sischek has role modeled all that St. Joseph's is - respect, excellence and compassion - and members of the Endoscopy Unit (those who nominated him) thank him for his leadership and dedication to providing deeper sedation in the Endoscopy Unit a success."

St. Joseph's MAC Award – A Professional Staff member at St. Joseph's who has recently demonstrated gualities of leadership and provided outstanding contribution to the success of initiatives aligning with the strategic direction of St. Joseph's (vetted by the Medical Advisory Executive Committee and approved and awarded by the St. Joseph's MAC.

DR. PAT MORLEY-FORSTER IS THE CANADIAN ANESTHESIOLOGISTS SOCIETY'S GOLD MEDALIST FOR 2013

2012-2013 has been monuementous for the Chronic Pain Program. Under the leadership of anesthesist Dr. Pat Morley-Forster, the chronic pain program has positioned itself as a national leader in the management and prevention of pain. A major achievement was the acceditation of a Pain Medicine Subspecialty Program by the Royal College of Physicians and Surgeons of Canada (RCPSC).

The Pain Medicine Subspecialty Program, is a two year multidisciplinary training program, that includes Psychiatry, Pediatrics, Neurology, Physical Medicine and Rehabilitation and Rheumatology. The the curriculum received official approval from the Royal College in June, 2013. Read more about the Western Pain Program on [p. 20].

The Department is thrilled to announce that faculty member. Dr. Pat Morley-Forster. Professor and Director of the Chronic Pain Program in the Department of Anesthesia and Perioperative Medicine at Western University, was recently honoured by the Canadian Anesthesiologist's Society with the 2013 Gold Medal.

In the span of over 20 years of an illustrious career, Dr Morley-Forster has shown leadership in advancing the clinical practice of pain management, is known as a "remarkable" coach and mentor, and has distinguished herself as an educator among her peers.

The Gold Medal is the highest award of the Canadian Anesthesiologists' Society. The medal may be awarded to any individual, ordinarily a Canadian who has made a significant contribution to anesthesia in Canada through teaching, research, professional practice, or related administration and personal leadership.

This is the second time in recent years that the Department of Anesthesia and Perioperative Medicine has seen one of their faculty member honoured with a Gold Medal from CAS. Dr.Wojciech Dobkowski, of the Liver Transplant



TEACHER OF THE YEAR AWARDS

FELLOW TEACHER OF THE YEAR

2012 – 2013: Ramiro Arellano

2011-2012: Su Ganapathy

POSTGRADUATE TEACHER OF THE YEAR

2012 - 2013: Rooney Gverzdys

2011 – 2012: Arif Al-Arebi

UNDERGRADUATE TEACHER OF THE YEAR

2012 – 2013: Michelle Gros

2011 – 2012: Collin Clarke

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UNIVERSITY STUDENT COUNCIL (USC), WESTERN UNIVERSITY:

TEACHING HONOUR ROLL

FOR EXCELLENCE IN TEACHING IN UNDERGRADUATE MEDICAL EDUCATION.

Granton. Jeff

Gros, Michelle

Faculty Roles, Academic Outreach & Scholarship

Ahmad, Mohamad

University, Director,

Present.

Invited Lectures

Al-Areibi, Arif

Department of Anesthesia & Perioperative Medicine. Western University

- Present.
- 2011 Present.

Invited Lectures

Invited Speaker.

Demonstrator.

Antoniou, Andreas

Department of Anesthesia & Perioperative Medicine, Western University.

- . 2012 Feb - Present.

London Health Sciences Centre.

- . Present.
- Present.

Invited Lectures

Simulation Summit, Royal College of Physicians and Surgeons of Canada. Co-Organizer: Thinking Outside the Box, using creativity to improve scenarios [workshop].

- 2012 Nov. Ottawa.
- 2013 Jan. Orlando. Florida.

Pediatric Anesthesia Program, Department of Anesthesia & Perioperative Medicine, Western

Pediatric to Adult Care Transition Task Force. London Health Sciences Centre, Member, 2012 -

CSTAR's Interprofessional Summer School. London Health Sciences Centre, 2012 May, Faculty and Workshop Demonstrator: Airway Management.

Pediatric Anesthesia Group. Member. 2009

Quality Assurance Committee, London Health Sciences Centre, Member, 2012.

Royal College of Physicians and Surgeons of Canada Exam Preparation Group. Member.

Conference: Cardiovascular Care in 2012, The Heart-Team Approach. 2012 Dec. Benghazi, Libya.

Southwestern Ontario Anesthesia Meeting: Airway Workshop. 2012 Oct. London, ON. Workshop

 Anesthesia Undergraduate Simulation Program. Coordinator. 2011 – Present.

Resident Academic Half-day. Co-Coordinator.

Anesthesia and Obstetrics Interdisciplinary Simulation Program. Coordinator. 2013 -

Procedural Sedation Guidelines Committee. 2012 Aug – Present. Member.

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

Arango, Miguel

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,

Invited Lectures

TIVAmerica 2012: Congreso Nacional de Anesthesiologia. 2012 Nov. Fesacac, El Salvador.

- Invited Speaker .
- Isquemia Cerebral Intra-Operatoria [lecture].
- 2. Implicaciones Anesthesicas para Cirugia Minimamente Invasia en Neurocirugia [lecture].
- Keynote Speaker: Complicaciones Trans-Operatorias en Neurocirugia [lecture].

IV Congreso Regional de Neuroanestesia, Neurocirugia y Cuidado Neurocritico. 2012 Dec.

- Invited Speaker: Caso Clinico Accidente . Cerebro-vascular [lecture].
- Session Moderator .
- 1. Epilepsia
- 2. Trauma Encefalocraneano
- Workshop Demonstrator: Taller para Medicos: Atencion Inicial Paciente Neurologico

Armstrong, Kevin

Department of Anesthesia & Perioperative Medicine. Western University

- Academic Affairs Committee. Chair. 2009 -Present
- City-wide Acute Pain Service. Director. 2008 Present
- City-wide Regional Anesthesia Program. Co-Director. 2008 - Present.
- Department Council, Member, 2011 Present.

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

Invited Lectures

2nd Annual Ultrasound Guided Regional Anesthesia Cadaver Course. 2012 May. Penn State: Hershey Medical Centre, Hershey, Pennsylvania. Invited Speaker.

(continued...Armstrong, Kevin)

Southwestern Ontario Anesthesia Meeting: Airway Workshop. 2012 Oct. London, ON. Workshop Instructor.

Schulich School of Medicine & Dentistry, Talent Management Conference. 2012 Nov. London, ON. Invited Lecturer: Implementing a Formalized Mentorship Program for Academics

Armstrong, Paidrig

- St. Joseph's Health Care London
- Anesthesia Equipment Committee. Member. 2006 2012.
- Medical Emergency Response Committee.
 Member. 2003 Present.
- Physician Assistant Site Coordinator. 2012 –
 Present.
- Postgraduate Education Committee. Member. 2012 – Present.

Invited Lectures

Southwestern Ontario Anesthesia Meeting: Airway Workshop. 2012 Oct. London, ON. Workshop Demonstrator.

Bainbridge, Daniel

AMOSO Innovation Fund Committee. Member. 2012 – Present.

Canadian Anesthesiologists' Society.

- Annual Meeting Committee. Chair. 2012 2015.
- Scientific Affairs Subcommittee. Chair. 2010
 2012.

Department of Anesthesia & Perioperative Medicine, Western University

- Academic Affairs Committee. Member. 2009 – 2012.
- Cardiac Anesthesia Fellows Committee. Member. 2009 – 2012.
- Departmental Research Committee. Member. 2011 – Present.
- ECHO Committee. Member. 2006 2012.

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

ICCVA 2012: 13th International Congress of Cardiothoracic and Vascular Anesthesia - combined with the New Zealand Society of Anaesthetists (NZSA). 2012 Nov. Invited Speaker: Advanced

Qualification Workshop

Schulich School of Medicine & Dentistry. 2012 Critical Care Ultrasound Course. Invited Speaker: Vascular Workshop.

Batohi, Pravin

- St. Joseph's Health Care London. 2012 Present.
- Board of Directors. Member
- Governance Committee. Member
- Medical Advisory Committee. Member
- Professional Staff Organization. Chair

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

Brookes, Jonathan

- Present.

Invited Lectures

Southwestern Ontario Anesthesia Meeting, Western University. 2012 Dec. Workshop Demonstrator.

Mini-University Session, Western University: Demonstrating Ultrasound to Young Students as part of an anatomy lab project. 2012 Aug. Workshop Demonstrator.

Anatomy Lab, Western University: Undergraduate Anatomy Studies, teaching sonoanatomy to medical students, 2012 Sep. Workshop Demonstrator.

Bruni, Ida

Invited Lectures

ENT Bootcamp, Western University: Simulation Session. 2012 Sep. Workshop Demonstrator. Southwestern Ontario Anesthesia Meeting.

Western University: Simulation Session. 2012 Dec. Workshop Demonstrator.

Butler, Ron

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.

Cave, Anita

.

Invited Lectures

OMA: Ontario Anesthesia Meeting. 2012 Sep. Presenter: Literature Review – The Annual Update in Anesthesia.

Southwestern Ontario Anesthesia Meeting, Western University: Basic Workshop for AirTraq. 2012 Oct. Workshop Demonstrator.

Champion, Lois

.

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.

Schulich School of Medicine & Dentistry, Western University

- Critical Care Program Committee. Member.
- Postgraduate Education Program
- Critical Care Residency Training Committee.
 Member. 2010 Present.
- Internal Review Committee. Member.
- Provost Advisory Committee on Teaching and Learning. Schulich School of Medicine & Dentistry Representative. 1998 – Present.

Undergraduate Education (UGE) Program Courses.

- Emergency Care (Year 2). Course Chair. 2006
 Present.
- Epidemiology (Year 1). Course Chair. 2010 - Present.
- Evaluating Committee for Undergraduate Education. Member. 2001 – Present
- Pre-clerkship and Transition Committee.
 Member. 2009 Present.

Cheng, Davy

- Present.

2010 - Present.

2010 - Present.

Present

diac Surgery (ISMICS)

American Heart Association Scientific Statements Guideline Writing Group, "Medications that should be used cautiously or avoided in patients with heart failure." Invited Member. 2011 – 2012.

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

Professional Specialty/Section Team. 2012

Canadian Network for Environmental Scanning in

Canadian Perianesthesia Clinical Trials Network

The Chinese Heart Congress (Beijing, Aug 9-12,

Duke-NUS Graduate Medical School Singapore,

University of Malava, Invited External Reviewer for

External Safety and Efficacy and Monitoring Com-

International Anesthesia Research Society (IARS)

Board of Trustees Executive Committee

Scientific Program Committee, Co-Chair,

2009 - 2011; International Advisor. 2011 -

International Society for Minimally Invasive Car-

mittee (ESEMC) of the POISE-2 Trial. Member.

Department of Cardiothoracic Anesthesia,

Academic Promotion. 2011.

Secretary. 2011 – 2013.

2012) Organizing Committee. Member. 2011-2012.

(PACT) Steering Committee, Committee Member,

Health (CNESH). Member. 2011 - Present.

Canadian Anesthesiologists' Society

 Board of Directors. Board Member. 2011 – Present. Steering Committee and Expert Consensus Panel, "Blood Conservation in Cardiac Surgery." Co-Chair. 2011.

Steering Committee and Expert Consensus Panel, "Transcatheter Aortic Valve Implantation (TAVI) Surgery." Co-Chair. 2012.

London Health Sciences Centre

.

- 2012.

2011 - Present

Invited Lectures

competency.

ogy? [Lecture]

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.

Talent Management Strategy Steering Committee. Committee Member. 2010 – Present.

Ministry of Health and Long Term Care (MOHLTC). Ontario Blood Advisory Committee (OBAC). Vice Chair 2009– 2012; Chair 2012 - Present.

Society of Cardiovascular Anesthesiologists (SCA) & Asian Society of Cardiothoracic Anesthesiology (ASCA). Invited Board Member. 2010 – Present.

9th International Congress of Cardiothoracic and Vascular; the 7th International Chinese Cardiovascular Anesthesia Forum; The 11th Annual Meeting, Taiwan Society of Cardiovascular Anesthesia. Organizing Committees. Member. 2010-2011.

13th International Congress of ICCVA and New Zealand Anesthesia Annual Scientific Meeting. Scientific Program Advisory Group. Advisor. 2010

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

St. Joseph's Health Care London

Medical Advisory Committee. Executive Committee. Member. 2011 – Present.

Talent Management Strategy Steering Committee. Committee Member. 2010 – Present.

Schulich School of Medicine & Dentistry, Western University: Knowledge Translation and Health Policy Steering Committee. Committee Member.

World Federation of Societies of Anesthesiologists (WFSA): Scientific Affairs Committee. Elected North American Representative. 2012 – Present.

WFSA Symposium, Euroanesthesia annual meeting, Barcelona, Spain. 2013, Jun 1-4.

Symposium: Field of the anesthesiologist's

What place for subspecialties in anesthesiol-

For the complete list of Dr. Davy Cheng's Invited Lectures, please see the MEDICI and EPiCOR program report, [p. 37].

Cherry, Richard

Department of Anesthesia & Perioperative Medicine, Western University

- Anesthesia Simulation Program. Director.
- Postgraduate Education Committee. Member. 2002 – Present.
- Residency Program. IT Coordinator.
- Simulation Fellowship Program. Coordinator.

London Health Sciences Centre (LHSC)

- 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.

- 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

Invited Lectures

Simulation Summit, Royal College of Physicians and Surgeons of Canada. 2012 Nov 17. Co-Organizer

- Presenter: The difficult de-brief how to degrief the debrief [workshop].
- Presenter: Thinking Outside the Box, using creativity to improve scenarios [workshop].

Clarke, Collin

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

(continued)

(continued...Clarke, Collin)

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.

Coveney, Lynn

Schulich School of Medicine & Dentistry, Western University.

- Royal College of Physicians and Surgeons of Canada. Internal Review Committee. Chair. 2009 – Present.
- Selection Committee for First Nations Medical School Admissions. Member. 2008 – Present.

Craen, Rosemary

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.
- Anesthesia Research Committee. Member. 2011-2012.

London Health Sciences Centre

- Pharmacy and Therapeutics Committee.
 Member. 1997
- Post-Anesthetic Care Unit. Anesthesia Liaison. 2002 – Present.

London Health Sciences Centre and St. Joseph's Health Care London: Quality and Patient Safety Planning Committee. Member. 2008 – 2009.

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.

Currin, Michael

Department of Anesthesia & Perioperative Medicine, Western University: Finance Committee. Member. 2005 – Present.

Dhir, Achal

di-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.
- Subspecialty Journal Club: Liver Transplant Journal Club. Journal Club Convenor. 2012 Sep-Dec.

Ontario Medical Association. Scientific Program. Chair. 2010 – Present.

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

Canadian Anesthesiologists' Society : Regional Anesthesia Section. Chair. 2010 – 2012.

London Health Sciences Centre.

- Renal Transplant Committee. Member. 2005

 Present.
- 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.
- Wednesday Morning Regional Rounds Group. Member. 2006 – Present

Invited Lectures

ISA Annual Conference. Indore, India. 2012 Dec.. Invited Speaker: Measurements of Pressures, volumes and flows by TEE [lecture].

PGIMR & RML Hospital, New Delhi, India. 2012 Jul. Visiting Professor: Role of the Anesthetist in

Minimally Invasive Cardiac Surgery [lecture]. Toronto TEE Symposium. Toronto, ON. 2012

Nov. Invited Speaker: TEE as a monitoring tool [lecture].

Dhir, Shalani

- Canadian Anesthesiologists' Society
- Annual Meeting Committee. Core Member.
 2012 present.
 - Regional Anesthesia Section. Chair. 2010 2012.

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.
- Wednesday Morning Regional Rounds Group. Member. 2006 – Present

Invited Lectures

All India Institute of Medical Sciences (AIIMS): Trauma Workshop. India. 2012 Oct. Invited Instructor and Workshop Chair.

- Basics of US Machine
- Lower Limb Sonoanatomy
- Upper Limb Sonoanatomy
- US guided truncal blocks

International Conference on Recent Advances in Anesthesiology. India. 2012 Oct. Invited Speaker.

- Cancer recurrence and anesthesia [lecture].
- Newer anticoagulants and anesthesia [lecture].

Dobkowski, Wojciech

Department of Anesthesia & Perioperative Medicine, Western University: Financial Management Committee. Member. 2005 – 2012.

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

Fantillo, Vanessa

Ontario Society of Anesthesia, Quality Assurance Committee. Member. 2012 – present.

Invited Lectures

London Health Sciences Centre, Victoria Hospital. Pediatric Transport Team. 2012 Nov.

- Assessment of Critically III Children [lecture]
- Shock in Critically III Children [lecture].

Fuller, John

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.

London Health Sciences Centre: Critical Care Division

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

London Health Sciences Centre: Critical Care Division

- Finance Committee. Member. 2011 Present.
- Program Committee. Member. 2002 Present.

London Health Sciences Centre

- Central Line Infection Working Group.
 Member.
- CCTC Recruitment and Retention Shared Leadership Core Team. Member. 2005 – Present.
- Defibrillator Renewal Working Group.
 Member.
- Oncology Perioperative Care Committee.
 Member. 2007 Present.
- Operating Room Executive Committee.
 Member. 2007 Present.
- Maternal Emergency Response (Post M2P2). Member.
- Medical Advisory Committee: Leadership Subcommittee. Member.
- Pregnant Patients with Critical Illness Pathway Group. Member. 2009 – Present.
- Ultrasound Interest Group. Member.

Royal College of Physicians and Surgeons of Canada.

- Canadian Ambulatory Anesthesia Research and Education Committee. Member.
- Corporate Affairs Committee. Member.
 2006 Present.

Member, 2011.

mittee. Member. 2012.

2011 - Present.

2003 - Present.

Care Medical Director. 2012- Present.

2011.

Schulich School of Medicine & Dentistry, Western University.

Postgraduate Policy Renewal Committee.

Postgraduate Appeals Committee. Chair.

St. Joseph's Health Care London. Perioperative

(MERC). Member. 2005 - Present.

Undergraduate/Postgraduate Awards Com-

Medical Emergency Response Committee

Medical Emergency Response Sub-commit-

tee: Two-tiered response planning. Chair.

Medical Emergency Response Team. Chair.

Operating Room Executive Committee.

Perioperative Grand Rounds. Organizer.

Perioperative Model of Care Evaluation

Committee, Member, 2004 - Present,

Alternate Chair. 2006 - Present.

Perioperative Committee. Co-Chair.

- Preadmission Improvement Committee. Member. 2004 – Present.
- Step-Up Care Unit. Medical Director.
- Schulich School of Medicine and Dentistry, Western University. Faculty Development Workshop: Teaching in a Clinical Setting. Workshop Organizer and Lecturer. 2012 Sep.

Ganapathy, Sugantha

Invited Lectures

Member.

Invited Lectures

Granton, Jeff

- Present.

Anesthesia. 2011

Director.

Division

.

- Department of Anesthesia & Perioperative Medicine, Western University. 2012 – Present.
 - Acute Pain Committee
 - **Research Committee**
- Orthopedic Anesthesia Pain Rehabilitation Society. 2012 Present. Board Member.
- 9th Annual International Symposium of Ultrasound for Regional Anesthesia and Pain Medicine (ISURA), Toronto, ON. 2012 Jun.
 - Session Moderator: Innovation and Miscellaneous Topics; Master Class.
 - Workshop Demonstrator: Pain Medicine Program: Morning Workshops; Challenging Cases, Upper and Lower Limbs; Workshop II.
- 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
 - 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
- Department of Anesthesia & Perioperative Medicine, Western University: Department Council. Member. 2010 – Present.
- London Health Sciences Centre. Critical Care
 - Cardiac Surgery Recovery Unit. Education
 - 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 Appeals Committee. Committee Member. 2011 Present.
- Postgraduate Education Committee. Chair. 2010 – Present.

Gros, Michelle

Department of Anesthesia & Perioperative Medicine, Western University.

- Anesthesia Record Committee. Member. 2011 – 2012.
- 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.

Gverzdys, Rooney

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

Harle, Chris

AMOSO Governance Committee. Member 2012.

CAHO: Adopting Research To Improve Care (ARTIC) Program. Anesthesia 'Champion' for LHSC. 2012 Sep.

Department of Anesthesia and Perioperative Medicine, Western University. University Hospital Site Chief.

- Anesthesia Associates Practice Plan, Financial Management Committee. Vice Chair.
- Department Council. Member.
- Quality Assurance Committee. Member. London Health Sciences Centre (LHSC)
- City-wide Perioperative Committee.
 Member. 2012
- City-wide Perioperative Executive. Member 2012
- Profound Medical Working Group.

University Hospital, LHSC

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

Invited Lectures

Southwestern Ontario Anesthesia Meeting, Western University. 2012 Oct. Co-Organizer, and Workshop Demonstrator.

Herrick, lan

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. 2012
- City-Wide Anesthesia Quality Assurance Committee. Chair. 2008 – Present.
- Continuing Medical Education Program.
 Director.
- OSA Policy Working Group. Co-Chair. 2012.

London Health Sciences Centre (LHSC).

- Citywide Credentials Committee. Member. 2012.
- Citywide Professional Staff and Human

- Resources Committee. Member. 2012. 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.

Invited Lectures

ACUDA Annual Meeting. Invited Speaker: Plenary Session: Performance Metrics and pt Outcomes. 2012 Jun.

Hoogstra, Jason

- r Department of Anesthesia & Perioperative Medicine, Western University
 - Victoria Hospital, London Health Sciences Centre. City-wide Equipment Co-ordinator. 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. 2007 Present.
- City-wide Laser Safety Committee. Member.
 2012 Present.
- New Technology Assessment Team (University Hospital). Member. 2012 – Present
- New Technology Assessment Team (Victoria Hospital). Member. 2012 – Present.

Iglesias, Ivan

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

CSTAR Workshop, London Health Sciences Centre, London, ON. 2012 Aug. Workshop Demonstrator: Critical Care Echocardiography.

Southwestern Ontario Anesthesia Meeting, Western University. 2012 Oct. Co-Organizer, and Workshop Demonstrator.

Jones, Philip

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

- Cardiac Anesthesia Committee. Member.
- CSRU Committee. Member.

Medicine, Western University

- Department Council. Member. 2008 Present.
- Department Research Committee. Member.
- Finance Management Committee. Member. 2009 – 2012.
- 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

Cardiac Team Meeting, The London Club, London, ON. 2012 Jun. Invited Speaker: The value of postprotamine ACT.

Health Sciences Research Board. 2012 Jul. Invited Speaker: The definition and utility of open data.

Katsiris, Sandra

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. In Coordinator Page 10 (1997)
- Postgraduate Education Committee. Member. 1999 – Present.

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.

Department of Anesthesia & Perioperative

Hamilton Health Sciences Corporation. The

Internationally (CANNeCTIN). Member. 2009 -

London Health Sciences Centre. Impella Left

Schulich School of Medicine and Dentistry, Western University. Management Physician

Advisory Committee for the Recruitment of

Talent and Excellence. Member. 2011 - Present.

Ventricle Assist Device Program. Co-ordinator.

Canadian Network and Centre for Trials

Medicine, Western University

Lavi. Ronit

Present.

2010 - Present.

OMA: Ontario Anesthesia Meeting. 2012 Sep. Invited Lecturer: Perioperative Management of Patients with Renal Dysfunction.

Invited Lectures

Mack, Peter

Examiner.

McConachie, Ian

- present

Care London.

- Present.

- 2012 July.

Invited Lectures

[lecture].

- Southwestern Ontario Anesthesia Meeting: Airway Workshop. 2012 Oct. London, ON. Workshop Demonstrator.
- Department of Anesthesia and Perioperative Medicine: Undergraduate Education Program. Site Coordinator for University Hospital.
- Medical Council of Canada: LMCC Part II Exams.
- Canadian Anesthesiologists' Society
 - Abstract Review Committee. Member. 2009
- Department of Anesthesia & Perioperative Medicine, Western University
 - Finance Management Committee. Member. 2011 – Present.
- London Health Sciences/St. Joseph's Health
 - Joint Credentials Committee. Member. 2011
 - Joint Medical Advisory Committee. Member. 2010 – 2012.
- St. Joseph's Health Care London
 - Hospital Board. Board Member. 2011 2012
 - Governance Committee. Member. 2011 July
 - Professional Staff Organization. President. 2011 July – 2012 July
- 2nd International Conference on Recent Advances in Anaesthesiology (INCRAA – SCCC). 2012 Oct. Department of Anesthesiology, All India Institute of Medical Sciences, New Delhi, India. Invited Speaker.
- Carbs and Proteins starches and albumin for resuscitation [lecture].
 - Intravenous Lidocaine: The Big Freeze
 - Oh Sweet Mystery of Life: Perioperative Management of Diabetes [lecture].
- Southwestern Ontario Anesthesia Meeting: Airway Workshop. 2012 Oct. London, ON. Workshop Demonstrator.

McNamara, Jeffrey

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.
- PSO By-Law Working Group for 2012. Member. 2012.

London Health Sciences and St. Joseph's Healthcare London.

- Joint Medical Affairs Committee. Member.
- Joint Selection Committee for the Chief of the Department of Dentistry. LHSC Board Appointed Representative. 2012.

Morley-Forster, Pat

Academic Pain Clinic Directors of Canada. Member. 2004 – Present.

Canadian Journal of Anesthesia. Editorial Board. Editor. 2009 – Present.

Annual Meeting. Chicago, Illinois. 2012 Oct. Moderator and Symposium Chair: Does Cerebral Monitoring Improve Neurologic Outcome.

International Congress of Cardiothoracic and Vascular Anesthesia, and the New Zealand Annual Scientific Meeting. 2012 Nov. Auckland, New Zealand.

- Lecturer: What Ever Anesthetist and Intensivist Should Know About Brain Protection.
- Moderator: Poster Session.

International Meeting on Aortic Diseases. 2012 Oct. Liege, Belgium. Invited Speaker: Monitoring of the Cerebral Perfusion.

Canadian Pain Society. Neuropathic Pain Special Interest Group. Invited Member. 2005 – Present.

Department of Anesthesia and Perioperative Medicine, Western University. Chronic Pain Program. Director.

(...continued)



Lecture:

Perioperative Management of Patients with Renal Dysfunction.

-Ronit Lavi, Invited Lecturer. Ontario Medical Association. Annual Meeting: 2012 Sep.

(continued...Morley-Forster, Pat)

Ontario Medical Association (OMA) and the Ministry of Health and Long Term Care (MOHLTC) Chronic Pain Working Group. Chronic Pain Representative and Invited Member. 2011 -Present.

Royal College of Physicians and Surgeons of Canada

- Anesthesiology Specialty Committee. Member, 2012 - Present,
- Pain Medicine Specialty Committee. Chair. 2010 - Present
- Task Force for the Royal College Accreditation of Pain Medicine as a Subspecialty. Chair. 2006 - Present.

St. Joseph's Health Care London

- Ambulatory Medicine Shared Leadership Council. Member. 2006 - Present.
- Multidisciplinary Pain Clinic, London, ON. Medical Director. 2001 - Present.
- Pain Clinic Advisory Committee. Chair. 2002 - Present.

Morrell, Bobbi-Jo

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.

Physician Advisory Committee. Member. 2012

Murkin, John

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.

> McMaster Health Research Institute. Coronary Steering Committee. Member.

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

Invited Lectures

The Korean Society of Anesthesiologists Annual Meeting, 2012 Nov, Kwang Ju, Korea, Invited

Speaker: Shine a light: Non-invasive Near Infrared Spectroscopy Advances Clinical Monitoring and Profoundly Impacts Patient Outcomes.

Nicolaou, George

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 Practioner Meetings. Member
- Citywide Perioperative Executive Committee. Co-Chairman. 2011 - Present.
- . CWPOC Procurement Committee. Member.
- Orthopedic Steering Committee. Member

Invited Lectures

International Forum of Cardiovascular Anesthesia and the 8th International Chinese Cardiovascular Anesthesia Forum. Bejing, China. 2012 Aug.

Invited Speaker: Spinal Cord Protection During Thoracic Aortic Surgery,

(continued...Nicolaou, George)

Session Moderator: Organ Protection Strategies in Cardiac Surgery.

Southwestern Ontario Anesthesia Meeting: Airway Workshop. 2012 Oct. London, ON. Workshop Demonstrator.

Parkin, John

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

Railton, Craig

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,

Invited Lectures

Department of Clinical Pharmacology, Western University: Grand Rounds. Invited Lecturer: An English Gentleman, Flying, Death, and Surgery: An Overview of Neuromuscular Blocking Agent Pharmacology and Research Update.

Ralley, Fiona

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

Department of Anesthesia and Perioperative Medicine, Western University.

- Member, 2008 Present,
- Program, Site Coordinator

Journal of Cardiothoracic and Vascular Anesthesia. Editorial Board, Editor, 1997 - Present, London Health Sciences Centre

- Chair. 2006 Present.
- Member, Present,
- (ONTraC). Site Director.
- Director.
- Committee, Chair.
- - Present.

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

Invited Lectures

blood management.

Sharpe, Michael

Present.

Present.

CIHR: Transplantation Research Committee. Member, 2012 - Present,

- Present.
- 2008 Present.

Postgraduate Education Committee. Member. 1993 - Present.

Critical Care Services Ontario: Coordinating Committee, Member, 2012 - Present,

Anesthesia Assistants Advisory Committee.

University Hospital, Anesthesia Assistants

Citv-Wide Blood Transfusion Committee.

Emergency Blood Management Committee.

Ontario Nurse Transfusion Coordinators Provincial Blood Conservation Program

Perioperative Blood Conservation Program.

Perioperative Blood Conservation Program

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

MOHLTC Provincial Contingency Planning Working Group. Member. 2008 - Present.

Patient Blood Management (PBM) Symposium. Toronto, ON. 2012 Sep. Invited Speaker: Ervthropoietin and intravenous iron in patient

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

Canadian Critical Care Society. Secretary. 2013 -

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

Critical Care Program, Western University.

Critical Care Joint Council, Member, 2006 –

Critical Care Research Committee. Member.

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.

Invited Lectures

IV Neuro Congress. Mendellin, Colombia. 2012 Dec. Invited Speaker.

- DCD (lecture).
- Inhalation Anesthesia for Refractory Status Epilepticus (lecture).
- Critical Care Canada Forum. Toronto, ON. 2012 Oct. Invited Speaker: Growing DCD in Ontario

Simon, Gary

London Health Sciences Centre

Pediatric Symptom Management and Supportive Care. Member. 2010 - Present.

Perioperative Blood Conservation Committee. Member, 2004 - Present,



Singh, Indu

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,

Sischek, William

Department of Anesthesia & Perioperative Medicine, Western University.

Citywide Clinical Coordinator

St. Joseph's Health Care London. Site Chief 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, 2012.

Invited Lectures

Department of Psychiatry, Western University: Regional Symposium. London, ON. 2012 Dec. Invited Speaker: Anesthetic Considerations for Electroconvulsive Therapy.

Smith, David

Department of Anesthesia, El-Salud, Arequipa, Peru. 2012. Lecturer and Preceptorship.

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

St-Amand, Marc

Department of Anesthesia and Perioperative Medicine, Western University: Anesthesia Associates Executive Committee. Member. 2012 Royal College of Physicians and Surgeons of Canada: Oral Exam Committee, Member, 2012.

Taneja, Ravi

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. Member. 2009 -2012: Chair. 2012 – Present
- Lung Inflammation Research Group. Founding Member. 2012 - Present

Turkstra, Tim

Canadian Anesthesiologists' Society: Airway Focus Committee, Member, 2012, Department of Anesthesia & Perioperative

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.

16th Annual Society for Airway Management Scientific Meeting. Toronto, ON. 2012 Sep. Invited Speaker: "My patient has a difficult airway letter from EGH (Elsewhere General Hospital). I'm going to intubate him awake (Law) vs. I'm going to intubate him asleep (Turkstra)".

Southwestern Ontario Anesthesia Meeting: Airway Workshop. 2012 Oct. London, ON. Workshop Demonstrator.

Vanelli, Anthony Invited Lectures

Southwestern Ontario Anesthesia Meeting: Airway Workshop. 2012 Oct. London, ON. Workshop Demonstrator.

Watson, James

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.

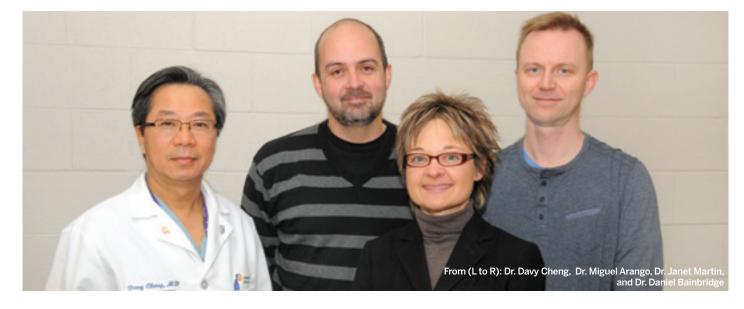
London Health Sciences Centre. Anesthesia Assistants Program. Director. 2007 - Present.

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, Chair, 2011 - 2012; Delegate to Council. 2008 - Present; Executive. 2007 - Present



Making Headlines: Dramatic Decline in Anesthetic Mortality over the Past 50 Years

Thursday, October 4, 2012

Research from Dr. Daniel Bainbridge and colleagues in Western's "Although anaesthetic mortality remains low compared with traffic Department of Anaesthesia and Perioperative Medicine, Dr. Davy fatalities or suicide, it still remains high compared with death caused Cheng, Dr. Janet Martin, and Dr, Miguel Arango, has shown that by air travel, which is a commonly used yardstick to benchmark the survival rates after a general anaesthetic and within 48 hours of surrisk of anaesthesia." gery have dramatically improved worldwide over the past 50 years. His research is published in the high-profile journal, The Lancet.

The researchers used data from 87 studies spanning back to the 1930s to analyse trends in death due to anaesthesia and soon after surgery involving more than 21.4 million anaesthetics given in countries around the world. Despite operating on more patients considered high-risk or who need more complicated surgeries now than in the past, the likelihood of dying after a general anaesthetic has dropped by roughly 90%— from an estimated 357 per million before the 1970s to 34 per million in the 1990s–2000s. During the same period, the risk of dying from any cause within 48 hours of surgery (perioperative mortality) has decreased by about 88%— from an estimated 10 603 per million before the 1970s to 1176 per million in the 1990s-2000s.

Dr. Bainbridge, an associate professor at Western's Schulich School of Medicine & Dentistry and a scientist with Lawson Health Research Institute, says the dramatic decline is due to several factors including better equipment in the O-R, better recognition and treat-

Medicine, Western University, Airway Residency Rotation. Coordinator. Journal Club. Co-Convenor.

Invited Lectures

ment of patient disease, safe surgical checklists, and better hospital infrastructure. Dr. Janet Martin, Dr. Davy Cheng and Dr. Miguel Arango were also involved in the study.

"Although this declining pattern was evident in both developing and developed nations, the greatest and most progressive decline has been in developed countries. Overall rates of perioperative and anaesthetic-related mortality have consistently been much higher in developing countries and remain two to three time higher than in developed nations"*, explains Dr. Bainbridge. He says evidencebased interventions need to be put into practice to reduce the disparities between high-income and low-income countries.

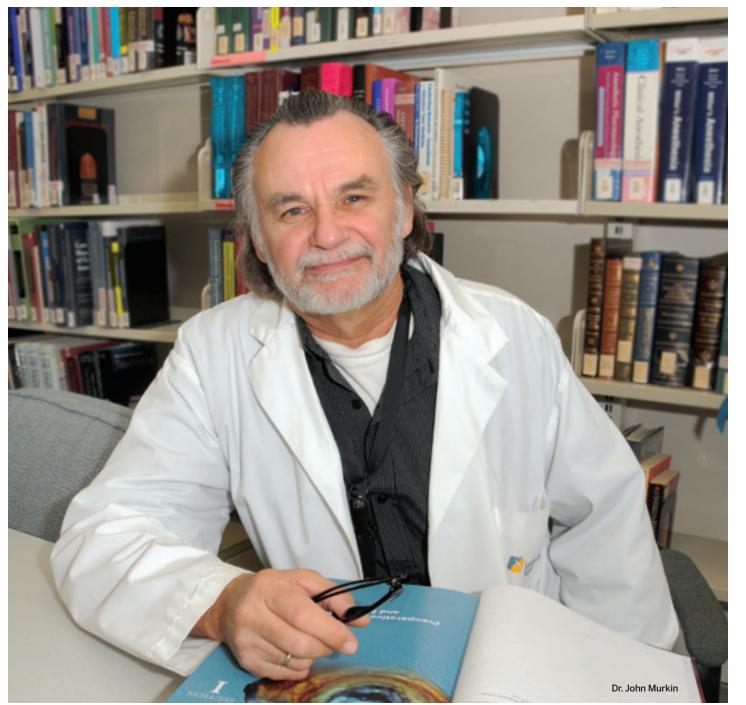
Dr. Bainbridge adds, "we know people are afraid of flying because of the risk of death even though that risk is low, and has been steadily going down. We also know people who come in for surgery are afraid of dying from the anaesthetic or from the surgery, and we're able to show the same thing, that the rates have been steadily going down and the risk is extremely low." Still he says, there's room for improvement. "Even though we know the risk is low, we continue to improve the standards and the safety for patients so they can be more comfortable and confident when they come for surgery."

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Research and Academic Excellence

Publications, Grants and Funding



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Dr. Arif Al-

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2012-2014: \$1300 [Year 2 of 2] of \$2600.

Bainbridge D (Co-investigator), et al.

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577, 602

Crumley T, Cherry R, Antoniou A.

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Dhir S & Sharma R

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2013-2015: \$10,000 [Year 1 of 2]

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CIHR Grant: Needle Guidance System for Neuraxial Analgesia and Anesthesia. 2011 – 2015: \$34,888 [Year 2 of 4] of \$139,554.

Ganapathy S

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2011-2013: \$17,144 [Year 2 of 2].

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2013-2015: \$5,500 [Year 1 of 2]

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Anesthesia Internal Research Fun Therapeutic hypothermia after PI cardiac arrest, does it work? A cas control study.

2013-2015: \$9,250 [Year 1 of 2]

Jones P.

AMOSO Opportunities Fund: Ran omized Isoflurane and Sevoflurar Comparison in Cardiac Surgery: *i* prospective randomized clinical t (RISCCS).

2010 - 2013: \$32,500 [Year 3 of

Martin J, Cheng D

Schulich School of Medicine and Dentistry Dean's Research Grant Initiative: Transforming Early Successes into a Sustainable Prograr of Cross Departmental Health Teo nology Assessment, Evidence-Ba Decision-Making, and Knowledge Translation

2012 – 2015: \$190,000 [Year 1 of of \$570,000

Mele T, Murkin J.

Physician's Services Incorporated Foundation (PSI): Tissue Near Infrared Spectroscopy (tNIRS) in th Assessment and Management of Critically III Patients.

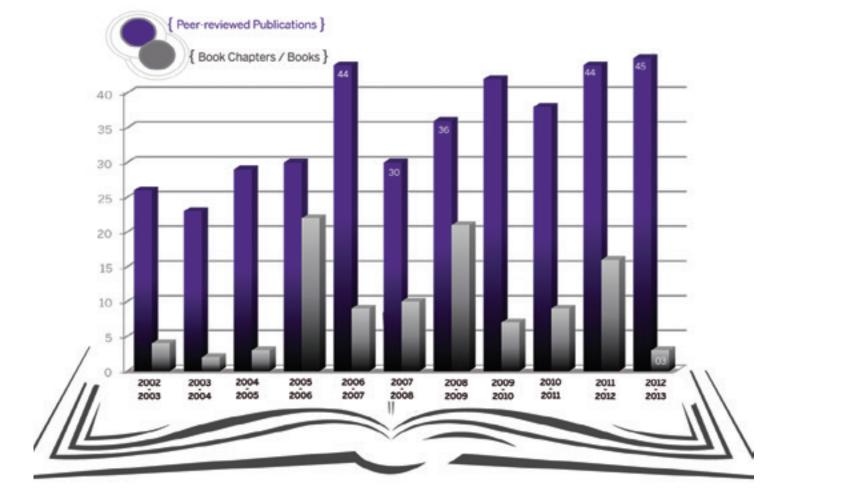
4]	2012 - 2014: \$84,500 [Year 2 of 2] of	Sen M, Schulz V (Co-investigator).	
	\$168,500.	AMOSO Opportunities Fund: As- sessment and Management of Delerium in the Intensive Care Unit:	
	Murkin J, Ismail M.	A Quality Improvement Initiative.	
d f ard	Department of Anesthesia and Perioperative Medicine, Internal Re- search Fund: A Randomized Study Comparing Low Dose Vasopressin	2009 – 2012: \$10,833 [Year 3 of 3] of \$32,499	
nd		Tyml K, Sharpe M.	
ided	Infusion or Placebo on (NIRS) and (VOT) in Cardiac Patients During CPB.	A novel model of sepsis in the elderly: mechanism and treatment of microvascular dysfunction.	
	2012 – 2014: \$5000 [Year 2 of 2] of \$10,000	Heart and Stroke Foundation o Ontario. 2012 - 2015: \$137,622	
co-		University of Western Ontario:	
	Railton C. Prinicpal Investigator.	Academic Development Fund. 2011 – 2013: \$103,340.	
nd:	Department of Anesthesia and Perioperative Medicine, Internal	2011 2010. \$100,010.	
s of	Research Fund: Is there an adverse	Sharpe M (Principle Investigator).	
ces	drug reaction between Renin-Angio- tensin System Blockade and Inhaled	UWO Critical Care Research Fund:	
	Anesthetics? – A Pilot Study.	Pilot Study of Vitamin C in sepsis.	
	2012 – 2014: \$5000 [Year 2 of 2] of	Jesse and Julie Rasch Foundation.	
. t	\$10,000	2011-2013: \$138,238	
et			
nd: 'EA	Reider M, Railton C (Co-investiga- tor).	Ellis GE, Goldman D, Jackson D, Sharpe M, Tyml K.	
ise-	MITACS: The Application of a Wire- less Sensor Technology for Vital Statistics in Children and Adults.	Canadian Institute of Health Research Grant (CIHR): A systems approach to sepsis: Pathological	
	2012 - 2014: \$75,000 [Year 2 of 2] of	versus Adaptive Microvascular Responses	
nd-	\$150,000.	2009 - 2013: \$128,566 [Year 4 of 5] of \$624,830	
ne	Koo K, Schulz V.		
A	AMOSO Grant: Mobilization of Criti-	Taneja R.	
trial	cally III Patients in Intensive Care Units: A Canadian Survey of Current	AMOSO: Heparin Induced Coagu-	
3]	Knoweldge, Attitudes and Practice.	lopathy in Cardiac Surgery – A Proof	
-	2010 – 2013: \$32,500 [Year 3 of 3]	of Concept Study.	
	of \$97,500	2012: \$32,500 [Year 2 of 2] of \$65,000.	
	Lingard L, Schulz V, et al.	Ŧ . D	
)-	Canadian Insititute of Health Re-	Taneja R.	
m ch-	search Grant (CIHR): Palliative Care on the Heart Failure Team: Mapping	Critical Care Research Grant.	
ased e	Patient and Provider Experiences and Expectations.	\$1500.	
f 3]	2012-2014: \$116, 024 [Year 1 of 2] of \$232,048	INDUSTRY GRANTS / NON-PEER REVIEWED	
		Bainbridge D, Murkin J	
	Schulz V.	ORNIM Medical: Intraoperative	
d	AMOSO AFP Innovation Fund: Palliative Care on the Heart Failure	NIRS-based CBF in Comparison to TCD Cerebral Flow Velocity: A Cor- relation Analysis.	
- he f	Team: Mapping Patient and Provider Experiences and Expectations.	2013: \$50,000	
	2012: \$143,587, 2013: \$90,594		

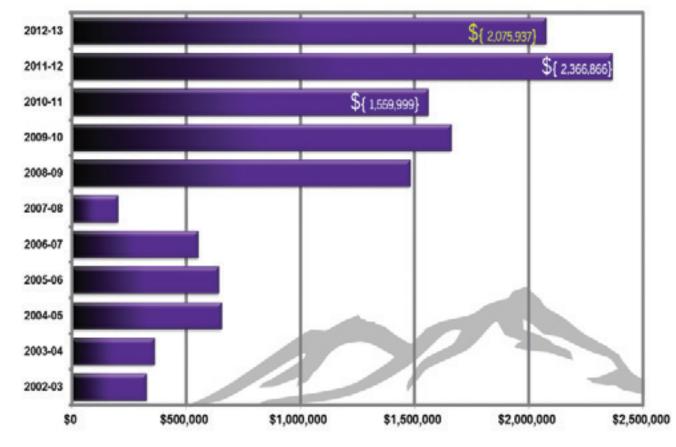
Peer-reviewed Publications

Totals per annum

Peer-reviewed, Non-Industry Grants and Funding

Totals per annum





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