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Friday, June 19

13:00 – 20:00
Registration
Shaw Centre

18:00 – 20:00
Welcome Reception
Exhibit Hall, Shaw Centre

20:00
Residents’ Reception
 Métropolitain Brasserie

Saturday, June 20

06:30 – 17:00
Registration
Shaw Centre

07:00 – 07:45
Continental Breakfast
Westin Hotel

08:00 – 08:45
Track Education and Simulation in Anesthesia
Symposium 1
CanMEDS 2015 and Competency by Design: The Sands are Shifting, Why I Should Care
Room: Gatineau

Moderator:
Dr Noel O’Regan, Memorial University

Presenter:
Dr Christopher Hudson, Ottawa Heart Institute, University of Ottawa

Objectives:
At the end of this session, participants will be able to:

• Identify the changes that CanMEDS 2015 will bring to the realm of both Resident education and continuing lifelong learning of practitioners in anesthesiology

• Discuss the challenges inherent in developing and implementing a competency by design curriculum for Residency training.

• Formulate some strategies for managing these challenges and changes.

Track Pediatric, Obstetric Anesthesia
Plenary Symposium
General Anesthesia and the Young Brain: Could We Be Doing Harm?
Room: Gatineau

Opening Remarks:
Dr Susan O’Leary, President, Canadian Anesthesiologists’ Society

Moderator:
Dr Daniel Bainbridge, Western University

Presenter:
Dr Vesna Jevtovic-Todorovic, Professor of Anesthesiology and Professor of Neuroscience, University of Virginia, Charlottesville, VA

Objectives:
At the end of this session, participants will be able to:

• Discuss presently available evidence regarding general anesthesia-induced developmental neurotoxicity in animals.

• Describe up-to-date clinical evidence (or lack of it) for anesthesia-induced behavioural impairments in children.

• Discuss protective strategies that could be of potential clinical relevance.

09:00 – 09:45
Track Neuroanesthesia
Case Discussion 1
Frames, Drains, Brains and Other Pains: Challenges in Procedural Sedation.
Room: 215

Moderator:
Dr Alana Flexman, University of British Columbia

Presenter:
Dr Ian Beauprie, Dalhousie University

Objectives:
At the end of this session, participants will be able to:

• Discuss airway and sedation challenges in patients with neurostimulators, stereotactic frames, shunts, and halo vests.

• Examine challenging cases and discuss alternate strategies.

• List key strategies for the occasional neuroanesthesiologist.

Track Ambulatory, Perioperative Refresher Course 1
Perioperative Risk in the Ambulatory Surgical Patient with Sleep-Disordered Breathing
Room: 214

Moderator:
Dr Frances Chung, University Health Network, University of Toronto

Presenter:
Dr Anthony Doufas, Stanford University School of Medicine, Stanford, CA

Objectives:
At the end of this session, participants will be able to:

• Identify the various pathophysiological components of sleep-disordered breathing and their association with cardio-metabolic consequences of the disease.

• Evaluate the evidence for an association between a preoperative diagnosis of sleep-disordered breathing and adverse postoperative outcomes.

• Explain the potential mechanisms for increased perioperative complications based on the pathophysiology of sleep-disordered breathing.

• Propose methods and interventions to mitigate risk in ambulatory surgical patients with sleep-disordered breathing.
All sessions are to take place at the Shaw Centre unless otherwise noted.

09:45 – 10:15
Beverage Break
Exhibit Hall

09:45 – 16:00
Exhibits & Poster Viewing
Authors will be present at their posters during lunch.

10:15 – 12:00
Track: Patient Safety, Education and Simulation in Anesthesia
Symposium 2
Dr John Wade – CPSI Patient Safety Symposium: Co-developed by the Canadian Anesthesiologists’ Society and the Canadian Patient Safety Institute

Patient Safety in CanMEDS 2015: ASPIRE to Give Safer Healthcare Now!
Room: Gatineau

Opening Remarks:
Chris Power, Chief Executive Officer, CPSI

Moderator:
Dr Daniel Chartrand, McGill University

Presenters:
Dr Claude Laflamme, Sunnybrook Health Sciences Centre, University of Toronto
Dr Sherissa Microys, The Ottawa Hospital, University of Ottawa
Dr Brian M Wong, Sunnybrook Health Sciences Centre, University of Toronto

Objectives:
At the end of this session, participants will be able to:
• Describe ventilation strategies for the patient with healthy and diseased lungs.
• Describe the latest treatments for the patient with septic shock.
• Determine the optimal choice of vasopressors and interpose for the critically ill patient.
• Assess the most recent literature as it relates to the practice of critical care anesthesiology.

Track: Critical Care Medicine and Trauma
Symposium 3
Critical Care Update for the Anesthesiologist
Room: 214

Moderator:
Dr Eric Jacobsohn, University of Manitoba

Presenters:
Dr Duane Funk, University of Manitoba
Dr Shawn Hicks, Dalhousie University

Objectives:
At the end of this session, participants will be able to:
• List the CanMEDS 2015 roles which include patient safety and quality improvement (PS/QI) competencies and be able to explain the general rationale for each role.
• Determine one PS/QI competency which is currently not being taught in their program and decide what action may be needed to correct this.
• Promote resources for faculty and students to learn more about PS/QI competencies and educational methodology.

• Describe the physiology of perioperative heart failure.
• Identify key management options in the preparation and perioperative care of the patient with heart failure.

Track: Obstetric Anesthesia, Regional Anesthesia and Acute Pain
Workshop Ticketed 1
Ultrasound for Neuraxial Anesthesia and Analgesia
Room: 210

Leader:
Dr Jose Carvalho, University of Toronto

Instructors:
Dr Cristian Arzola, University of Toronto
Dr Mrinalini Balki, University of Toronto
Dr Clarita Margarido, University of Toronto
Dr Paul Wieczorek, McGill University

Objectives:
At the end of this session, participants will be able to:
• Describe and discuss the ultrasound anatomy of the lumbar epidural space.
• Describe and discuss the equipment and machine settings required to utilize ultrasound in the visualization of the epidural space.
• Describe techniques to optimize ultrasound for lumbar neuraxial procedures in obese patients.

Track: Regional Anesthesia and Acute Pain
Workshop Ticketed 2
Ultrasound-Guided Regional Anesthesia
Basic Lower Limb
Room: 212

Leader:
Dr Ki Jinn Chin, University of Toronto

Instructors:
Dr Holly Evans, The Ottawa Hospital
Dr Ciaran Twomey, University of Alberta
Dr Indu Singh, Western University
Objectives:
At the end of this workshop, participants will be able to:

- Apply knowledge of basic scanning techniques when using ultrasound for lower limb regional blocks.
- Recognize and describe the ultrasound appearance of the nerves of the lower limb.
- Demonstrate ability to identify the femoral, tibial and common peroneal nerves with ultrasound.

12:00 – 13:00
Lunch
Exhibit Hall

Authors with a poster in one of the following categories will be present: Airway Management, Cardiovascular & Thoracic: Basic Science & Clinical, Education, Genetics/Genomics, Neuroanesthesia, Pain: Acute – Basic & Clinical, Pain: Chronic – Basic & Clinical, Pediatric Anesthesia and Regional Anesthesia.

13:00 – 14:45
Track Faculty Development Symposium 5
CAS Standards: The Aging Anesthesiologist – A Panel Discussion Room: Gatineau

Moderator:
Dr Gregory Dobson, Capital District Health Authority, Dalhousie University

Presenters:
Dr Alan D Baxter, The Ottawa Hospital and University of Ottawa
Dr Lorraine LeGrand Westfall, Canadian Medical Protective Association
Dr Ernest Prégent, Collège des médecins du Québec
Dr Dennis Reid, The Ottawa Hospital, University of Ottawa

Objectives:
At the end of this session, participants will be able to:

- Describe the biology of aging, how it affects cognition, complex problem-solving and performance and why there is a growing cohort of aging anesthesiologists (and physicians) in Canada.
- Discuss available data relating to rates of adverse outcomes, patient complaints and litigation for physicians over age 65 and some of the specific problems they encounter.
- Evaluate the position of regulatory bodies such as provincial colleges, the Royal College and CMPA with respect to physician competency assessment in general and also specific to aging physicians.
- Recognize how some Canadian anesthesia departments have implemented structured “winding down” policies for clinical activities for older physicians and to recognize our need to plan ahead for the near-retirement years.
- Identify the unanswered questions and work to be done with respect to these issues for our specialty to address and develop national guidelines with the help of CAS leadership.

Track Cardiovascular and Thoracic, Perioperative Symposium 6
Perioperative Delirium in Cardiothoracic Surgery Room: 214

Moderator:
Dr Blaine Kent, Capital District Health Authority, Dalhousie University

Presenters:
Dr Rakesh Arora, St-Boniface Hospital, University of Manitoba
Dr Mayur Patel, Vanderbilt University School of Medicine, Nashville, TN
Dr James L Rudolph, Harvard Medical School, Brigham and Women’s Hospital, VA Boston Healthcare System, Boston, MA

Objectives:
At the end of this session, participants will be able to:

- Determine the vulnerabilities of cardiac surgery patients to develop postoperative delirium.
- Discuss the relationship between delirium and postoperative impairments in function and cognition.
• Explain the challenges with measurement of cognition in the preoperative period.

**Track: Education and Simulation in Anesthesia**

**Symposium 7**

**Simulation in Action: A Backstage View**

Room: 209

**Moderator:**
Dr Jordan Tarshis, Sunnybrook Health Sciences Centre, University of Toronto

**Presenters:**
Dr Meghan Andrews, The Ottawa Hospital, University of Ottawa
Dr Richard Cherry, Schulich School of Medicine and Dentistry, Western University
Dr Michelle Chiu, University of Ottawa
Dr Simone Crooks, The Ottawa Hospital, University of Ottawa
Dr Amy Fraser, University of Ottawa
Dr Purnima Rao, The Ottawa Hospital, University of Ottawa

**Objectives:**
At the end of this session, participants will be able to:

- List the elements that are required to design and deliver a high fidelity simulation-based education session.
- Determine different ways to engage in debriefing by observing a high-fidelity simulation scenario in a stop-and-go technique.
- Develop interest in engaging in future simulation activities by dispelling some of the natural anxiety many people have of participating in a simulation session.

**Track: Obstetric Anesthesia, Pediatric Symposium 8**

**History of Pediatric and Obstetric Anesthesia in Canada**

Room: 211

**Moderator:**
Dr Joanne Douglas, University of British Columbia

**Presenters:**
Dr Diane Biehl, University of Manitoba
Dr David Steward, University of British Columbia

**Objectives:**
At the end of this session, participants will be able to:

- Describe the contributions made by Canadian anesthesiologists to pediatric and obstetric anesthesia.
- Discuss how these contributions have been translated into current anesthetic practice.

**Track: Ambulatory, Perioperative Symposium 9**

**Opioids and Patients with Sleep-disordered Breathing – What are the Risks?**

Room: 215

**Moderator:**
Dr Jean Wong, University Health Network, University of Toronto

**Presenters:**
Dr Anthony Doufas, Stanford University School of Medicine, Stanford, CA
Dr Matthias Eikermann, Harvard Medical School, Boston, MA
Dr Liette Beauregard, Canadian Medical Protective Association

**Objectives:**
At the end of this session, participants will be able to:

- Describe the effect of opioids on arousal and respiratory physiology in patients suffering from sleep-disordered breathing.
- Perform a basic risk assessment for opioid-induced ventilatory impairment in patients suffering from sleep-disordered breathing.
- Describe the incidence and consequences of postoperative respiratory complications and explain the pathophysiology of postoperative respiratory complications.
- Describe three clinical risks when prescribing opioids and review experts’ opinions on safe prescribing practice.
- Apply two communication tips to increase the safety and defensibility of their care.

**Track: Regional Anesthesia and Acute Pain Workshop Ticketed 3**

**Ultrasound-guided Regional Anesthesia – Advanced Lower Limb**

Room: 212

**Leader:**
Dr Shalini Dhir, Western University

**Instructors:**
Dr James Green, University of Alberta
Dr Paul McHardy, Sunnybrook Health Sciences Centre, University of Toronto
Dr Jason McVicar, University of Ottawa

**Objectives:**
At the end of this workshop, participants will be able to:

- Describe ultrasound scanning techniques for various approaches to the sciatic, femoral, saphenous, lateral femoral cutaneous and obturator nerves.
- Use ultrasound to scan the neural anatomy of the lower limb on live models.
- Discuss the use of ultrasound-guided catheter insertion techniques for control of post-operative pain.

**Track: Pain: Acute – Basic & Clinical, Pain: Chronic Basic & Clinical Poster Discussion 3**

**Room: Parliament Foyer**

**Moderator:**
Dr Ciaran Twomey, University of Alberta

All sessions are to take place at the Shaw Centre unless otherwise noted.
Objective:
At the end of this session, participants will be able to:
• Discuss presented research presentations in pain: acute – basic & clinical and chronic basic & clinical with author(s) and attendees.

Track: Neuroanesthesia
Poster Discussion 4
Room: Parliament Foyer

Moderators:
Dr Andrea Rigamonti, University of Toronto
Dr Marie-Hélène Tremblay, Laval University

Objective:
At the end of this session, participants will be able to:
• Discuss presented research presentations in neuroanesthesia with author(s) and attendees.

14:45 – 15:15
Beverage Break
Exhibit Hall

15:15 – 16:00
Track: Education and Simulation in Anesthesia
Symposium 10
Optimizing CE PD Credits in Your Department
Room: Gatineau

Moderator:
Dr May-Sann Yee, University of Toronto

Presenters:
Dr Peter MacDougall, Dalhousie University

Objectives:
At the end of this session, participants will be able to:
• Define the requirements for all three sections of Maintenance of Certification.
• Describe two strategies for developing Section 3 credit events in their department.

Track: Perioperative Workshop Ticketed 4
Introduction to Gastric Ultrasound
Room: 210

Leader:
Dr Cristian Arzola, University of Toronto

Instructors:
Dr Jose C A Carvalho, University of Toronto
Dr Naveed T Siddiqui, University of Toronto

Objectives:
At the end of this session, participants will be able to:
• Describe the indications for gastric ultrasound in perioperative practice.
• Identify relevant sonoanatomy including the gastric antrum, empty state, solid contents, and clear fluids.
• Demonstrate effective use and equipment settings required to measure antral cross sectional area.

18:30 – 22:30
President’s Reception and Dinner
Room: Trillium Ballroom, 4th floor, Shaw Centre
Reception: 18:30 – 19:30
Dinner: 19:30 – 22:30

Sunday, June 21

FRENCH TRACK
Sessions noted in grey

06:30 – 17:00
Registration
Shaw Centre

07:00 – 10:00
Fun Run for CARF
Level 1, Shaw Centre

07:00 – 08:45
Breakfast at Section Events
Pre-purchased ticket required.
Track: Regional Anesthesia and Acute Pain

Section Event 1
REGIONAL ANESTHESIA AND ACUTE PAIN SECTION:
Complications in Regional Anesthesia
Room: 213

Moderator: Dr Derek Dillane, University of Alberta

Presenters: Dr Admir Hadzic, St Luke’s and Roosevelt Hospitals, New York, NY
Dr Joseph Neal, Virginia Mason Hospital, Seattle, WA

Objectives:
At the end of this session, participants will be able to:
• Describe endpoints for peripheral nerve blockade which maximize efficacy and safety.
• List the difficulties associated with formulating practice advisories for the treatment of local anesthetic toxicity and for regional anesthesia in the anticoagulated patient.
• Discuss the current best evidence for the treatment of local anesthetic toxicity.

Track: Cardiovascular and Thoracic

Section Event 2
CARDIOVASCULAR AND THORACIC SECTION:
Debate: Local and Sedation versus General Anesthesia for Transcatheter Aortic Valve Implantation, What is Best for Patient Outcome?
Room: 102

Moderator: Dr Blaine Kent, Dalhousie University

Presenters: Dr Donna Nicholson, University of Ottawa Heart Institute
Dr Ron Ree, Providence Health Care, St Paul’s Hospital, University of British Columbia

Objectives:
1. Managing the Risks in Anesthesia: Changing Patient’s Outcome
2. Should We Give Muscle Relaxants to Patients Undergoing Ambulatory Surgery?

Track: Ambulatory, Risk Management

Section Event 3
AMBULATORY SECTION:
1. Managing the Risks in Anesthesia: Changing Patient’s Outcome
2. Should We Give Muscle Relaxants to Patients Undergoing Ambulatory Surgery?
Room: 103

Moderator: Dr David T Wong, University Health Network, University of Toronto

Presenters: Dr Matthias Eikermann, Harvard Medical School, Boston, MA
Dr Lorraine LeGrand Westfall, Canadian Medical Protective Association

Objectives:
At the end of this session, participants will be able to:
• Discuss recent publications and guidelines regarding the use of opioids in cesarean deliveries.
• Describe changes in the administration of general anesthesia for cesarean delivery.
• Develop an opinion regarding the timing, dose, and opioid of choice for anesthesia and analgesia in cesarean delivery.

Track: Obstetric Anesthesia

Section Event 4
OBSTETRICS SECTION: OB Anesthesia Debate: Opioids Routinely before Cord Clamping in Cesarean with General Anesthesia
Room: 104

Moderator: Dr Giselle Villar, University of British Columbia

Presenters: Dr Roshan Fernando, University College Hospital, London, UK
Dr Christian Loubert, University of Montreal

Objectives:
At the end of this session, participants will be able to:
• Describe the incidence and consequences of postoperative residual neuromuscular blockade.
• Choose an optimal regimen to use neuromuscular blocking agents safely during surgery.

Track: Chronic Pain Management, Education and Simulation in Anesthesia

Section Event 5
CHRONIC PAIN SECTION: What has the Pain Medicine Residency Taught us About Managing Chronic Pain
Room: 108

Moderator: Dr Collin F M Clarke, Western University

Presenters: Dr Geoff Bellingham, Western University
Dr Mike Pariser, Western University
Objectives:
TBD

Track: Neuroanesthesia
Section Event 6
NEUROANESTHESIA SECTION:
Conscious Sedation for Awake Craniotomy: Dexmedetomidine vs Propofol
Room: 106
Moderator:
Dr Tim Turkstra, Western University
Presenters:
Dr Marco Garavaglia, St Michael’s Hospital, University of Toronto
Dr Tom Polis, The Ottawa Hospital
Dr Andrea Rigamonti, University of Toronto
Dr John Sinclair, The Ottawa Hospital

Objectives:
At the end of this session, participants will be able to:
• Discuss how Canada can contribute to pediatric anesthesia training globally.
• Define national guidelines for competencies and assessment in postgraduate training in pediatric anesthesia.
• Discuss the learning experiences of Fellows in training.

08:45 – 09:30
Track: Pediatric, Faculty Development
Symposium 13
PIERRE LIMOGES LECTURE: Quality Indicators in Anesthesia: Can Feeding Data Back to Physicians Improve Care?
Room: 206/208
Moderator:
Dr Simon Whyte, University of British Columbia
Presenter:
Dr Mark Crawford, University of Toronto

Objectives:
• Identify types of quality indicators.
• Identify quality issues relevant to their practice.
• Discuss how information can be used effectively within practice to improve care.

Track: Research, Obstetric Anesthesia
Symposium 14
CARF LECTURE: Pain of Childbirth: Implications and Future Directions
Room: 214
Moderator:
Dr Doreen Yee, University of Toronto
Presenter:
Dr Ronald George, Dalhousie University

Objectives:
At the end of this session, participants will be able to:
• Discuss new modalities in neuraxial labour analgesia and the impact on pain.
• Determine future directions in better understanding newer analgesia modalities and chronic pain.

Track: Perioperative
Refresher Course 2
Perioperative Optimisation – Fit for Surgery?
Room: 215
Moderator:
Dr Gregory L Bryson, University of Ottawa
Presenter:
Dr Ian McConachie, Western University

Objectives:
At the end of this session, participants will be able to:
• Discuss the importance of aerobic fitness and muscle strength in predicting postoperative outcome in high-risk surgical patients.
• Identify the potential for exercise to improve outcomes in high-risk surgical patients.
• Discuss the current status of goal-directed therapy and its application to the high-risk surgical patient.

Track: Residents, Education and Simulation in Anesthesia
Residents 1
Report from the Chief Examiner
Room: 211
Moderator:
Dr Jaclyn Gilbert, McMaster University
Presenter:
Dr Sandra Katsiris, Western University

Objectives:
At the end of this session, participants will be able to:
• Describe the structure of the Royal College of Physicians and Surgeons of Canada examinations in anesthesiology.
• Describe the approach of examiners to administering the examinations.
• List common types of errors on the examination.

**Track** Anesthesia Assistant, Perioperative
**Symposium 15** Myasthenia Gravis and Muscle Relaxants
Room: 209

**Moderator:**
Mark Ratz, Winnipeg Regional Health Authority, University of Manitoba

**Presenter:**
Laura Noble, Mount Sinai Hospital

**Objectives:**
At the end of this session, participants will be able to:
• Increase knowledge and increase comprehension of myasthenia gravis.
• Identify anesthetic techniques and support used when managing myasthenia gravis patients.
• Discuss a case of how a case was managed when a patient was inadvertently given rocuronium.

09:30 – 14:15
**Exhibits & Poster Viewing**
Authors will be present at their posters during lunch.

09:30 – 09:45
**Beverage Break**
Exhibit Hall

09:45 – 10:30
**Track** Residents, Cardiovascular and Thoracic
**Residents 2**
**Lung Isolation Strategies for Thoracic Surgery**
Room: 211

**Moderator:**
Dr Jaclyn Gilbert, McMaster University

**Presenter:**
Dr Peter Slinger, Toronto General Hospital, University Health Network, University of Toronto

**Objectives:**
At the end of this session, participants will be able to:
• Provide lung isolation in patients with difficult upper and lower airways
• Demonstrate an increased knowledge of tracheo-bronchial anatomy.
• Discuss recent advances in airway devices including double-lumen tubes and bronchial blockers.

10:30 – 11:15
**Canadian Anesthesia Fellowship Fair**
Room: 213

**Objectives:**
At the end of this session, participants will be able to:
• List anesthesia fellowship opportunities available in Canada.
• Liaise with fellowship directors to gather information on fellowships offered.
• Describe how to acquire further information on Canadian fellowship opportunities.

09:45 – 11:30
**Track** Cardiovascular and Thoracic, Perioperative
**Symposium 16**
Best Perioperative Cardiovascular and Thoracic Cases of the Year
Room: 206/208

**Moderators:**
Dr Robert Chen, University of Ottawa
Dr Blaine Kent, Capital District Health Authority, Dalhousie University

**Objectives:**
At the end of this session, participants will be able to:
• List and discuss the use of a variety of imaging modalities in unusual cardiothoracic anesthesia clinical scenarios.
• Explain the utility of multimodal imaging techniques in the planning and assessment of complex CVT cases.
• Evaluate the merits of TEE/TTE as an adjunct to clinical acumen when “simple” cases suddenly get “complex.”

**Track** Ethics, Perioperative
**Symposium 17**
Ethical Decision-making and the Complex Patient
Room: 205

**Moderator:**
Dr Cheryl Mack, University of Alberta

**Presenters:**
Dr Daniel McIsaac, The Ottawa Hospital
Dr Michael Moon, Mazankowski Alberta Heart Institute

**Objectives:**
At the end of this session, participants will be able to:
• Determine how our ethical obligations to complex patients manifest across a perioperative course.
• Describe how we ought to approach knowledge gaps when caring for complex patients.
• Discuss team-based, patient-specific perioperative planning in the setting of complexity.

09:45 – 11:30
**Track** Perioperative, Patient Safety
**Symposium 18**
Choosing Wisely Canada – How to do Better With Less
Room: 215

**Moderator:**
Dr Susan O’Leary, President, Canadian Anesthesiologists’ Society

**Presenters:**
Dr Gregory Bryson, University of Ottawa
Dr Davy Cheng, Western University and London Health Sciences Centre
Dr Gregory Hare, University of Toronto
Dr Patricia Houston, University of Toronto
Dr Kyle Kirkham, Women’s College Hospital, University of Toronto
Dr Massimiliano Meineri, University of Toronto

Objectives:
By the end of this session, participants should be able to:
• Describe the Choosing Wisely Canada national campaign and the CAS Choosing Wisely Canada initiative.
• Discuss the evidence to support the “top 5 things anesthesiologists and patients should question.”
• Advocate for the implementation of the “top 5 things anesthesiologists and patients should question.”

Track Regional Anesthesia and Acute Pain
Symposium 19
Evidence-based Medicine in Regional Anesthesia
Room: 214
Moderator:
Dr Derek Dillane, University of Alberta
Presenters:
Dr Shalini Dhir, Western University
Dr Joseph Neal, Virginia Mason Hospital, Seattle, WA

Objectives:
At the end of this session, participants will be able to:
• Discuss publications from the past year that have the potential to be practice-changing.
• Evaluate the evidence base from the past decade during which time regional anesthesia has evolved from using landmarks/nerve stimulation into a specialty mostly performed by ultrasound guidance.
• Discuss the future of published literature in regional anesthesia as envisaged by the Editor of Regional Anesthesia and Pain Medicine for the past decade.

Track Chronic Pain Management, Regional Anesthesia and Acute Pain
Workshop Ticketed 5
Musculoskeletal Ultrasound for the Pain Practitioner
Room: 210
Leader:
Dr John Hanlon, University of Toronto
Instructors:
Dr Juan-Francisco Asenjo, McGill University
Dr Geoff Bellingham, Western University
Dr Collin F M Clarke, Western University
Dr Roderick Finlayson, McGill University

Objectives:
At the end of this workshop, participants will be able to:
• Describe appropriate ultrasound settings and principles to successfully utilize ultrasound for use on musculoskeletal structures.
• Demonstrate the use of ultrasound for the identification of important musculoskeletal structures associated with chronic pain.
• Describe appropriate scenarios in which musculoskeletal structures may be a target of injection for diagnosis or treatment.

Track Airway Management
Symposium 20
The Use of Nasal Prongs during Intubation – Enhancing Patient Safety!
Room: 209
Moderator:
Mark Ratz, Winnipeg Regional Health Authority, University of Manitoba
Presenter:
Dr Chris Christodoulou, St-Boniface Hospital, University of Manitoba

Objectives:
At the end of this session, participants will be able to:
• Describe the mechanisms underlying the principles of nasal prong oxygenation.
• Define the conditions central to effective nasal prong oxygenation.
• Demonstrate the practical use of nasal prong oxygenation during intubation to enhance patient safety.

Track Education and Simulation
Poster Discussion 5
Room: Parliament Foyer
Moderators:
Dr Zeev Friedman, Mount Sinai Hospital
Dr Peter Moliner, University of Sherbrooke

Objective:
At the end of this session, participants will be able to:
• Discuss presented research presentations in education and simulation with author(s) and attendees.

Track Airway Management
Poster Discussion 6
Room: Parliament Foyer
Moderators:
Dr Adriaan Van Rensburg, University of Toronto
Dr Tim Turkstra, Western University

Objective:
At the end of this session, participants will be able to:
• Discuss presented research presentations in airway management with author(s) and attendees.

11:30 – 12:30 Lunch
Exhibit Hall

Authors with a poster in one of the following categories will be present:
11:30-13:00  
Recognition Event for Newly Certified Anesthesiologists  
Westin Hotel

12:30 – 13:15  
Track: Anesthesia Assistant, Airway Symposium 25  
The Role of the Anesthesia Assistant in Team-based Management of Airway Crisis Management  
Room: 209  
Moderator: Jared Campbell, Winnipeg Regional Health Authority, University of Manitoba  
Presenter: Dr Eric You-Ten, Mount Sinai Hospital

Objectives:  
At the end of this session, participants will be able to:  
• Describe human factors in crisis management.  
• Conduct problem-based learning of the management of airway scenarios.  
• Determine the importance of anesthesia assistant in team-based airway management.

12:30 – 14:15  
Track: Education and Simulation in Anesthesia, Faculty Development Symposium 21  
CAS IEF: Anesthesia Training Programs Overseas  
Room: 206/208  
Moderator: Dr Brendan Finucane  
Presenter: Dr Dylan Bould, University of Ottawa  
Dr Alezandre Dauphin, McMaster University  
Dr Nazingouba Ouedraogo, Université de Ouagadougou, Burkina Faso

Objectives:  
At the end of this session, participants will be able to:  
• Determine locations where current CAS IEF missions operate and where future missions will take place.  
• Describe what is required to function in an overseas teaching mission involving anesthesia.  
• Discuss how anesthesia education in underserved areas of the world differs from formal anesthesia education in the developed world.

Track: Chronic Pain Management Symposium 22  
Neuropathic Pain: Diagnosis and Management – A Review and Update  
Room: 214  
Moderator: Dr Collin F M Clarke, Western University  
Presenter: Dr Dwight Moulin, Western University

Objectives:  
At the end of this session, participants will be able to:  
• List the pharmacologic guidelines for the management of neuropathic pain.  
• Describe recent research that has led to the development of the new Canadian guidelines.  
• Describe common side-effect profiles of the major classes of medication used to manage neuropathic pain.

Track: Perioperative, Patient Safety Symposium 23  
Lessons Learnt from Transplant Anesthesia  
Room: 215  
Moderator: Dr Wojciech Dobkowski, London Health Sciences Centre and Western University

Objectives:  
At the end of this session, participants will be able to:  
• Perform preoperative assessment, discuss anesthetic management and be able to choose the appropriate fluid management for kidney transplant patients.  
• Explain causes of dyspnea in patients of end-stage liver disease and be able to diagnose and differentiate between porto-pulmonary hypertension and hepato-pulmonary syndrome.  
• Identify patients at increased risk for perioperative lung injury and to develop an evidence-based intraoperative ventilation strategy to improve postoperative outcomes.  
• Apply recent knowledge of perioperative fluid management and inflammation to decrease the incidence of post-operative respiratory complications in thoracic and non-thoracic surgery.

Track: Perioperative Workshop Ticketed 6  
Introduction to Pulmonary Ultrasound  
Room: 210  
Leader: Dr Massimiliano Meineri, University of Toronto  
Instructors: Dr Azad Mashari, University of Toronto
Dr Jacobo Moreno, University of Toronto
Dr Adriaan Van Rensburg, University of Toronto

**Objectives:**
At the end of this session, participants will be able to:

- Describe the indications and pitfalls for lung ultrasound.
- Demonstrate effective use and equipment settings required to visualize the pleura and pleural space.
- Identify ultrasonographic signs of pleural effusion and pneumothorax.

**Track** Regional Anesthesia and Acute Pain

**Workshop Ticketed 7**

Ultrasound-guided Regional Anesthesia – Basic Upper Limb
Room: 212

**Leader:**
Dr Patrick Wong, University of Ottawa

**Instructors:**
Dr Kristen Gadbois, The Ottawa Hospital
Dr Kyle Kirkham, Women’s College Hospital, University of Toronto
Dr Jennifer Szerb, Dalhousie University

**Objectives:**
At the end of this workshop, participants will be able to:

- Apply knowledge of basic scanning techniques when using ultrasound for upper limb regional blocks.
- Recognize and describe the ultrasound appearance of the nerves of the upper limb.
- Demonstrate the ability to identify the brachial plexus and surrounding anatomy with ultrasound.

**Track** Research

**Workshop – Non-Ticketed 10**

CAS MEDICI WORKSHOP: State of the Evidence in Anesthesia & Perioperative Medicine
Room: 205

**Co-leaders:**
Dr Davy Cheng, London Health Sciences Centre, Western University
Dr Janet Martin, London Health Sciences Centre, Western University

**Objectives:**
At the end of this workshop, participants will be able to:

- Describe the quantity and quality of research that has been conducted in the field of anesthesia and perioperative medicine in recent years.
- Define what proportion of existing evidence in anesthesia and perioperative medicine is valid, relevant, and ready for translation to clinical practice.
- Discuss current and future innovations in research to ensure anesthesiologists can establish global leadership and maximally sustain future progress in the field.
- Contribute to a research priority-setting exercise to determine the next best returns on investment in research for anesthesia and perioperative medicine.

**Track** Obstetrics

**Poster Discussion 8**

Room: Parliament Foyer

**Moderators:**
Dr Robert Jee, University of Ottawa
Dr Clarita Margarido, University of British Columbia
Dr Giselle Villar, University of Toronto

**Objectives:**
At the end of this session, participants will be able to:

- Discuss the breadth of research in obstetric anesthesia.
- Describe processes in obstetric anesthesia research.
- Determine the implications for research in obstetric anesthesia.

14:15 – 14:45

**Beverage Break**
Room: Parliament Foyer

14:30 – 16:15

**Track** Regional Anesthesia and Acute Pain

**Workshop Ticketed 8**

Ultrasound-guided Regional Anesthesia – Advanced Upper Limb
Room: 212

**Leader:**
Dr Desiree Persaud, University of Ottawa

**Instructors:**
Dr Kevin Armstrong, Western University
Dr Derek Dillane, University of Alberta
Dr Kwesi Kwofie, Dalhousie University

**Objectives:**
At the end of this workshop, participants will be able to:

- Describe the interscalene, supraclavicular, infraclavicular and axillary approaches to the brachial plexus.
- Use ultrasound to scan the brachial plexus and neighboring structures on live models.
• Discuss the use of ultrasound-guided catheter insertion techniques for control of post-operative pain.

14:45 – 15:30
Track: Cardiovascular and Thoracic, Perioperative
Refresher Course 3
Consciousness Monitoring in Cardiac Anesthesia
Room: 206/208

Moderator:
Dr Hilary Grocott, University of Manitoba

Presenter:
Dr Michael Avidan, Washington University School of Medicine, St Louis, MO

Objectives:
At the end of this session, participants will be able to:
• Explain the neurobiology associated with EEG changes that occur with anesthesia.
• Describe the EEG waveform features associated with appropriate depth of anesthesia with propofol and with volatile anesthetics.
• Determine whether an EEG waveform suggests insufficient anesthetic depth, appropriate anesthetic depth or excessive anesthetic depth.

15:30 – 16:15
Track: Obstetric Anesthesia, Patient Safety
Case Discussion 3
Cell Salvage for Cesarean Delivery
Room: 206/208

Moderator:
Dr Ronald George, Dalhousie University

Presenter:
Dr Robert Jee, University of Ottawa

Objectives:
At the end of this session, participants will be able to:
• Define the processes of peripheral and central sensitization that make the transition from acute to chronic pain.
• List the risk factors for developing chronic post-surgical pain.
• Formulate different strategies available for the anesthesiologist in the perioperative period to oppose the development of chronic post-surgical pain.

Track: French, Education and Simulation in Anesthesia
Symposium 27
La simulation au service de l’éducation médicale : Aspects théoriques et pratiques de l’éducation médicale basée sur la simulation (EMBS)
Simulation for Medical Education : Theory and Practice of Simulation-based Medical Education (SBME)
Room: 215

Moderator:
Dr Jean-Sébastien Lebon, Montreal Heart Institute, University of Montreal

Presenter:
Dr Issam Tanoubi, Hôpital Maisonneuve-Rosemont

Objectives:
At the end of this session, participants will be able to:
• Discuss some of the characteristics of the key evaluation tools, such as validity, reliability, and authenticity.
• Discuss the pertinence of evaluating physicians and the choice of available evaluation tools in relation to their characteristics.
• Describe an approach for the creation of a simulation-based evaluation program for physicians.

Track: Pediatric
Case Discussion 4
Postoperative Management of Children Following Tonsillectomy
Room: 214

Moderator:
Dr Natalie Buu, McGill University

Presenter:
Dr Karen Brown, McGill University

Objectives:
At the end of this session, participants will be able to:
• Determine the risk factors for major morbidity and mortality following adenotonsillectomy with an emphasis on the child with obstructive sleep apnea.
• List aspects of analgesic management to mitigate these risk factors.
• Incorporate current evidence into clinical practice.

All sessions are to take place at the Shaw Centre unless otherwise noted.
**Track:** French, Education and Simulation in Anesthesia  
**Symposium 28**  
*L’utilisation de la simulation pour l’évaluation en anesthésiologie*  
(The Use of Simulation for Evaluation Anesthesiology)  
*Room: 215*  

**Moderator:**  
Dr Jean-Sébastien Lebon, University of Montreal  

**Presenter:**  
Dr Arnaud Robitaille, University of Montreal  

**Objectives:**  
At the end of this session, participants will be able to:  
  1. Discuss the theoretical bases on simulation-based medical evaluation (SBME).  
  2. Identify the important stages of the creation and implementation of a simulation scenario.  
  3. Evaluate research progress in SBME.  
  4. Structure the debriefing as a teaching tool.  

**16:30 – 17:30**  
**CAS Annual Business Meeting**  
*Room: 205*

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**Track:** Perioperative Section Event 8  
**PERIOPERATIVE MEDICINE SECTION:** EEG Monitoring and Perioperative Outcomes  
*Room: 105*  

**Moderator:**  
Dr Gregory L Bryson, University of Ottawa  

**Presenter:**  
Dr Michael Avidan, Washington University School of Medicine, St Louis, MO  

**Objectives:**  
At the end of this session, participants will be able to:  
  1. Weigh the evidence evaluating EEG monitoring and the prevention of awareness under anesthesia.  
  2. Discuss evidence evaluating EEG monitoring and postoperative delirium.  
  3. Evaluate evidence associating EEG monitoring and death in the perioperative period.  

**Track:** Critical Care Medicine and Trauma  
**Section Event 9**  
**CRITICAL CARE SECTION:** The Future of Anesthesiologists in Critical Care  
*Room: 103*  

**Moderator:**  
Dr Duane Funk, University of Manitoba  

**Presenters:**  
Dr Eric Jacobsohn, University of Manitoba  
Dr Faisal Siddiqi, University of Toronto  

**Objectives:**  
At the end of this session, participants will be able to:  
  1. Describe the current role of the anesthesiologist in the Intensive Care Unit.  
  2. Describe the role of the critical care anesthesiologist in the future.  
  3. Identify the challenges anesthesiologists face in the critical care environment from an administrative standpoint.  

**Track:** Anesthesia Assistant  
**Section Event 10**  
**ANESTHESIA ASSISTANTS: Progression of a Profession**  
*Room: 104*  

**Moderator:**  
Mark Ratz, Winnipeg Regional Health Authority, University of Manitoba  

**Presenter:**  
Jared Campbell, Winnipeg Regional Health Authority  

**Objectives:**  
At the end of this session, participants will be able to:  
  1. Discuss advances in anesthesia.  
  2. Define new anesthesia approaches.  
  3. List topics of controversy.  

**07:45 – 08:30**  
**Track:** Obstetric Anesthesia, Patient Safety  
**Refresher Course 4**  
**Epidural Management for Emergency Cesarean Delivery: Where, When, and with What?**  
*Room: 209*  

**Moderator:**  
Dr Giselle Villar, University of British Columbia  

**Presenter:**  
Dr Roshan Fernando, University College Hospital, London, UK  

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**Monday, June 22**

**06:30 – 12:00**  
**Registration**  
Shaw Centre  

**07:00 – 08:45**  
**Breakfast at Section Events**  
Pre-purchased ticket required.
Objectives:
At the end of this session, participants will be able to:
• Describe optimization of labour analgesia epidural catheters for emergent cesarean deliveries.
• Describe emergency cesarean categorization and how it can help make decisions.
• Describe the relationship between decision-to-delivery intervals and maternal and fetal outcomes.

08:30 – 10:15
Residents’ Competition
Room: 206/208
Co-chairs:
Dr Michael Murphy, University of Alberta
Dr Pierre Beaulieu, University of Montreal
Objective:
At the end of this session, participants will be able to:
• Encourage scientific excellence in those physicians training in the specialty of anesthesia in Canada through presentations of current research.

Track Obstetric Anesthesia
Symposium 29
The Complex Parturient: Neurological Pathology in Mothers
Room: 209
Moderator:
Dr Ronald George, Dalhousie University
Presenters:
Dr Darine El-Chaar, The Ottawa Hospital
Dr Roshan Fernando, University College Hospital, London, UK
Objective:
At the end of this session, participants will be able to:
• Discuss current literature in pediatric anesthesia.
• Apply “new” techniques to clinical practice.
• Conduct critical appraisal of journal articles.

Leaders/Instructors:
Dr Stéphane Lambert, University of Ottawa Heart Institute
Dr Surita Sidhu, Mazankowski Alberta Heart Institute

Objective:
At the end of this workshop, participants will be able to:
• Maximize the potential of 3D ultrasound capabilities of the system they are currently using.
• Manipulate 3D datasets to evaluate the structure and function of a variety of cardiac valves.
• Manipulate 3D datasets to evaluate the structure and function of the cardiac ventricles.

Track Cardiovascular and Thoracic Workshop Ticketed 9b
Three Dimensional Transesophageal Echocardiography Offline Analysis Workshop
(Using GE Technology)
Leader/Instructor:
Dr Sunita Sidhu, Mazankowski Alberta Heart Institute
Objective:
At the end of this workshop, participants will be able to:
• Maximize the potential of 3D ultrasound capabilities of the system they are currently using.
• Manipulate 3D datasets to evaluate the structure and function of a variety of cardiac valves.
• Manipulate 3D datasets to evaluate the structure and function of the cardiac ventricles.
10:15 – 10:30  
**Beverage Break**  
Room: 205/207

10:30 – 12:15  
**Richard Knill Competition**  
Room: 206/208  
**Co-chairs:**  
Dr Hilary Grocott, University of Manitoba  
Dr Gregory Bryson, University of Ottawa  
**Objective:**  
At the end of this session, participants will be able to:
- Encourage scientific excellence among anesthesiologists in Canada through the presentation of current research.

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**Track**  
**Neuroanesthesia**  
**Refresher Course 5**  
**Cognitive Deficits After Anesthesia: From Mechanisms to Clinical Practice**  
Room: 209  
**Moderator:**  
Dr Marie-Hélène Tremblay, Laval University  
**Presenter:**  
Dr Beverley Orser, University of Toronto  
**Objectives:**  
At the end of this session, participants will be able to:
- Discuss most recent evidence with respect to mechanisms of anesthesia.  
- Discuss the cause of desired memory loss and undesired persistent memory deficits.  
- Discuss the future directions and clinical implications of recent preclinical discoveries.

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**Track**  
**Regional Anesthesia and Acute Pain**  
**Symposium 31**  
Consistency in Ultrasound-guided Regional Anesthesia (1) Neuraxial Blocks (2) Upper Limb Blocks  
Room: 215  
**Moderator:**  
Dr Shalini Dhir, Western University  
**Presenters:**  
Dr Ki Jinn Chin, University of Toronto  
Dr Colin McCartney, University of Ottawa  
**Objectives:**  
At the end of this session, participants will be able to:
- Describe techniques which use ultrasound as an aid to finding a bony window for the performance of neuraxial techniques.  
- Describe techniques that enable the user to find the midline and exact spinal level with greater consistency.  
- Discuss techniques which facilitate consistency with successful outcomes of brachial plexus blockade.

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**Track**  
**Health Management**  
**Poster Discussion 10**  
Room: Parliament Foyer  
**Moderator:**  
Dr Dale Engen, Queen’s University  
Dr Peter Moliner, University of Sherbrooke  
**Objective:**  
At the end of this session, participants will be able to:
- Discuss presented research presentations in health management with author(s) and attendees.

12:15 – 13:00  
**Lunch**  
Room: 205/207

13:00 – 13:45  
**Track**  
**Pediatric, Perioperative Case Discussion 5**  
**Maintenance IV Fluids in Children: Have we Found a Solution?**  
Room: 209  
**Moderator:**  
Dr Desigen Reddy, McMaster University  
**Presenter:**  
Dr Karen Choong, McMaster University  
**Objectives:**  
At the end of this session, participants will be able to:
- Describe evidence on maintenance IV fluid use in children.  
- List necessary considerations during volume resuscitation in children.  
- Determine implications for practice.
Symposium 32
Role of the Anesthesiologist in the Wider Governance of Healthcare and Health Economics
Room: 215
Moderator:
Dr Janet Martin, Western University
Presenter:
Dr Davy Cheng, Western University

Objectives:
• Determine our challenges in value of care and evidence-based practice: gaps between evidence and practice.
• Recognize the tools and methodologies of health technology assessment and economics to facilitate robust decision-making in a value-based healthcare system.
• Apply leadership as anesthesiologists in the governance of healthcare and health economics in acute care hospitals.

14:00 – 15:00
CAS Awards Ceremony
Room: 206/208

15:00 – 15:15
Beverage Break
Room: 205/207

15:15 – 16:00
Track Obstetric Anesthesia, Pediatric DR ANGELA ENRIGHT LECTURE:
General Anesthesia, Obstetrics and the Brain: Conundrums and Challenges
Room: 206/208

Moderator:
Dr Susan O’Leary, President, Canadian Anesthesiologists Society
Presenter:
Dr Joanne Douglas, University of British Columbia

Objectives:
At the end of this session, participants will be able to discuss:
• Describe the challenges of preventing awareness in the parturient.
• Evaluate the current research on the effects of general anesthesia on the fetal/newborn brain.
• Assess the possible benefits of fetal neuroprotection.
2015 FACULTY AND PLANNING COMMITTEE DISCLOSURES

Presenters listed here have voluntarily acknowledged support from commercial firms for studies relating to their presentation, or their intent to discuss unlabeled use of any product or investigational products.

Ki Jinn Chin
Smith Medical: Grant/Research Support

Chris Christodoulou
Airway Management Education Center: Consultant
BOMIMED: Receive royalties for patented medical device (airway bougie)

Andre Denault
CAE Healthcare: Speaker bureau
Covidien: Speaker bureau

Alana Flexman
Actelion: Grant/Research Support
Boehringer Ingelheim: Grant/Research Support; Honorarium
Gilead: Grant/Research Support
Medimmune: Grant/Research Support
Prometric: Grant/Research Support
Roche/Intermune: Grant/Research Support

Admir Hadzic
BBraun Medical: Other Financial or Material Support; Royalty income
PACIRA Pharma: Grant/Research Support; Consultant; Stockholder/Ownership Interest (excluding diversified mutual funds); Honorarium

Jean-Sébastien Lebon
Edwards Lifesciences; Fresenius Kabi, Abbvie: Consultant
Edwards Lifesciences; Abbvie: Honorarium

Sherissa Microys
Royal College of Physicians and Surgeons of Canada: Speakers Honorarium

Richard N. Merchant
3M Canada: Research Support
Neurowave Systems: Grants/Research Support

Dwight Moulin
Lilly: Honorarium
Pfizer Canada: Grant/Research Support
Purdue Pharma: Honorarium

Michael Murphy
Airway management Education Center: Stock Shareholder (Directly Purchased)
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