



CANADIAN CONFERENCE FOR THE ADVANCEMENT OF SURGICAL EDUCATION (C-CASE)

Promoting Excellence in Surgical Education

**Montréal, Québec
October 12 & 13, 2023**

Conference Programme

Target audience for this conference is: undergraduate and postgraduate directors of surgical education, surgical foundation directors, surgery clerkship directors, surgical residents interested in surgical education, medical students, surgical education administrators, etc.

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Declaration of continuing education to the College of Physicians of Quebec: Doctors who participate in this activity can declare **11.75 hours** of recognized professional development in category A, under the tab "*Activity recognized by an approved Quebec continuing education organization*".

This activity is an accredited group learning activity (section 1), as defined by the Maintenance of Certification program of the Royal College of Physicians and Surgeons of Canada; it was approved by the CPD Directorate of the Faculty of Medicine of the University of Montreal for a **maximum of 11.75 credit(s)**.

For any other participating professional, this program provides a certificate of participation for a **maximum of 11.75 hour(s)**.

Participants must request from their respective professional order the number of hours consistent with their participation.

ALL TIMES LISTED IN EST

Thursday, October 12, 2023

8:15 am – 9:00 am

BREAKFAST

Continental Breakfast Provided

Location: Entry Hall, Pierre Peladeau Amphitheatre

9:00 am – 9:05 am

Welcome to C-CASE 2023

Dr. Erica Patocskai – *CUSEC Chair, Department of Surgery, University of Montreal*

&

Dr. Patrick Harris – *Chief, Department of Surgery, CHUM*

9:05 am – 10:45 am

Scientific Session I: Simulation and Technology in Surgical Education

Moderators: **Dr. Harrison Westwick** – *Neurosurgeon, University of Montreal*

Dr. Vaibhav Gupta – *General Surgeon & Thoracic Surgery Fellow, Western University*

Learning Objectives:

1. Describe and formulate solutions for current topics in **undergraduate** surgical education, including virtual teaching and learning.
2. Describe current topics in **postgraduate** surgical education, such as virtual teaching and learning and assessment tools.
3. Define the role of simulation and artificial intelligence in undergraduate and postgraduate surgical education.

Interactive Learning: 3 minutes for presentation & 3 minutes for Q&A for each abstract.

TIME	PRESENTER	TITLE
9:05	Jeffrey Sioufi	Near-peer tutoring: an effective adjunct for virtual anatomy learning
9:11	David Fleischer	The use of Virtual Patient Case Simulations in Surgical Post-graduate Teaching Innovations
9:17	Arashk Ghasroddashti	Educational Effectiveness of Social Media as a Continuing Professional Development Intervention Among Practicing Surgeons: a Systematic Review
9:23	Trisha Tee	Affective Influence on Lumbar Laminectomy Performance on a Virtual Reality Spine Simulator
9:29	Keerat Grewal	Exploring Residents' Emotion Regulation Strategies and their Effectiveness in Team-Based Surgical Simulations
9:35	Emily Lan-Vy Nguyen	Impact of an educational workshop for medical student surgical clerkship rotation preparation
9:41	Aradhana Tewari	Does BlackBox Explorer Technology improve operative teaching for surgical residents?
9:47	Shilpa Balaji	The Impact of Deceased Donor Organ Procurement Workshop on Surgical Transplant Fellows' Confidence and Competence
9:53	Shilpa Balaji	Vascular Anastomosis Workshop Improves General Surgery Residents' Confidence And Competence

	9:59	Davy Lau	Improving Assessment and Training in Craniosynostosis: The Role of Interactive 3D Models and Multimodal e-Learning
	10:05	Puja Pachchigar	Trainee Response to Artificial Intelligent Tutor Instruction in Surgical Simulation
	10:11	Prachi Patel	Evaluating the benefit of a novel surgical robotic training workshop for general surgery and subspecialty trainees in Canada
	10:17	Abdulrahman Almansouri	Cerebral Corticectomy in Ex Vivo Calf Brain Model: Face and Content Validation
	10:23	Ella Koonar	Validating a Virtual Simulation Tool for Local and Regional Flap Reconstruction in the Head and Neck
	10:29	Bianca Giglio	Evaluating the Impact of the MLASE Checklist on Surgical Training Literature Involving Machine Learning and Virtual Reality: A Comparative Analysis
	10:35	Zakaria Tamani	Evaluating the impact of medical students' participation in telephone visits for breast cancer patients: A pilot study

10:45 am – 11:45 am

Artificial Intelligence in Healthcare Education

Jason M. Harley, Ph.D

*Associate Professor, Department of Surgery
Director, Simulation, Affect, Innovation, Learning,
and Surgery (SAILS) Lab
Director of Research, Steinberg Centre for
Simulation and Interactive Learning
McGill University | Faculty of Medicine and Health
Sciences*



Learning Objectives:

1. Be able to define artificial intelligence (AI) in the context of surgical education.
2. Recognize ways AI is currently being applied in surgical education.
3. Understand gaps in how AI is currently being applied in surgical education.
4. Be able to identify knowledge, skills, and competencies needed to help prepare for an expanded AI role in surgery and surgical education.

Interactive Learning: 45 minutes for the presentation followed by 15 minutes for Q&A

11:45 am – 12:45 pm

LUNCH

Hot Buffet Lunch Provided
Location: Agora at CRCHUM (900 rue Saint-Denis)

12:45 pm – 2:15 pm

Breakout Rooms

Topic	Location	Moderator(s)	Learning Objectives
<u>Research Frameworks:</u> What Are They & How to Use Them	Room A01 9209 A&B	Adam Dubrowski, PhD – <i>Canadian Chair in Simulation</i>	<ul style="list-style-type: none">• Define the concept of methodological frameworks and their role in structuring the research process in educational studies.• Explain how these frameworks guide the selection of research methods, data collection techniques, and data analysis procedures.• Differentiate between various research methods commonly used in educational research, such as qualitative, quantitative, and mixed-methods.
<u>Research Mentorship:</u> Choosing a Suitable Project and Supervisor & Overview of How to Write a Paper	Room A02 9209 B	Vaibhav Gupta, MD, PhD – <i>General Surgeon & Thoracic Surgery Fellow, Western University</i> Roy Hajjar, MD – <i>PGY5, General Surgery, University of Montreal</i>	<ul style="list-style-type: none">• To facilitate choosing research projects and bringing them to completion.• Describe the common pitfalls of writing a paper.

	<p><u>Career Transitions:</u> Medical School to Residency</p>	<p>Room: Amphitheatre</p>	<p>Merieme Habti, MD – Resident, General Surgery, University of Montreal</p> <p>Sender Liberman, MD – Program Director, General Surgery, McGill University</p> <p>Georges Azzie, MD – Paediatrics Surgeon & Program Director, The Hospital for Sick Children</p>	<ul style="list-style-type: none"> • Review of the application process- research in an academic dossier, reference letters, mentors, USMLE. • Review the necessary steps of interview preparation and ranking programs.
	<p><u>Career Transitions:</u> Residency to Fellowship and Beyond</p>	<p>Room A02 9209 A</p>	<p>Léamarie Meloche-Dumas, MD – Fellow, University of Toronto</p> <p>Kerianne Boulva, MD – Surgical Oncologist & Assistant Fellowship Director, University of Montreal</p>	<ul style="list-style-type: none"> • Review of the application process – research in an academic dossier, reference letters, mentors, USMLE. • Review the Interview preparation and the ranking of programs. • Pearls for a successful start of practice. • Understanding how to integrate research into clinical practice.
<p>Interactive Learning: 90 minutes</p>				
<p>2:15 pm – 2:45 pm</p>	<p style="text-align: center;">Breakout Room “Wrap Up”: Key Take Home Messages <i>Location: Pierre Peladeau Auditorium</i></p> <p><u>Learning Objectives:</u></p> <ol style="list-style-type: none"> 1. To identify the key points presented in each of the four breakout rooms. 2. To explain the process of career transitions and their pitfalls. 3. To facilitate choosing research projects and bringing them to completion. <p style="text-align: center;">Interactive Learning: 30 minutes</p>			
<p>2:45 pm – 3:00 pm</p>	<p>COFFEE BREAK</p>			

3:00 pm – 4:15 pm

Scientific Session II: Technology, EDI in Surgical Education

Moderators: **Dr. Abdollah Behzadi** – *Thoracic Surgeon, University of Toronto*

Dr. Sasha Létourneau – *Resident, Western University*

Learning Objectives:

1. Describe current topics in **undergraduate** surgical education, such as medical student preparation for residency and diversity in medical student education.
2. Describe current topics in **postgraduate** surgical education, such as, resident selection for surgical programs and diversity in residency education.
3. Discuss learners' and surgeons' wellbeing, coaching and mentorship.

Interactive Learning: 3 minutes for presentation & 3 minutes for Q&A for each abstract

TIME	PRESENTER	TITLE
3:00	Clément Schneider	MiHolo, A Holographic Training Tool for Minimally Invasive Mitral Valve Repair Surgery
3:06	George Gerardis	An Interdisciplinary Complex Airway Crisis Resource Management Simulation Training Module for Otolaryngology Residents: a Longitudinal Experience
3:12	Sarah Moussa	Surgical Exploration and Discovery (SEAD): Perspectives on Student-led Debriefs in Undergraduate Surgical Education
3:18	Mohamed Bondok	Equity, Diversity, and Inclusion in Medical Residency: A Web-Based Analysis of Canadian PGME Efforts
3:24	Sawmmiya Kirupaharan	Factors influencing medical students' decision to pursue a career in surgery in North America: A systematic review.
3:30	Mostafa Bondok	Exploring the shifting landscape in the match outcomes of women applying to surgical residency programs in Canada: Have we achieved equity?
3:36	Carolyn Stephens	Promoting Diversity in Surgery through UofC UpSurge
3:42	Yasmin Osman	A Conversation on the Current State of Diversity, Equity, and Inclusion in Surgery
3:48	Rahim Valji	Current State of Female and BIPOC Representation in Canadian Medical Education Administration Leadership
3:54	Tobi Lam	What's in a name? The development of trust and familiarity in dynamic interprofessional operating room teams
4:00	Jillian Schneidman	Women in surgery: a qualitative study of gendered experiences within everyday surgical life

4:15 pm – 5:00 pm

Exploring the Burnout Crisis in Surgery

Laura Drudi, MD, MSc
Vascular Surgeon
Assistant Professor, Department of Surgery
University of Montreal



Learning Objectives:

1. Discuss the burnout crisis in surgery by defining burnout and elaborating on the impact of burnout on surgeon wellbeing, patient care, and organizational wellness.
2. Discuss risk factors for burnout and suicidal ideation in the workforce.
3. Describe a multi-pronged solution to address burnout.

Interactive Learning: 30 minutes for the presentation followed by 15 minutes for Q&A

6:30 pm – 9:00 pm

SOCIAL DINNER

Open for Attendees & Guests Who Purchase Dinner with Registration
Location: Brasserie Le Pois Penché (1230 de Maisonneuve Ouest)

Friday, October 13, 2023

8:00 am – 9:00 am

BREAKFAST

Continental breakfast provided

Location: Entry Hall, Pierre Peladeau Amphitheatre

8:15 am – 9:45 am

Hands on Technical Sessions for Learners

Target audience: medical students, residents, fellows

Facilitated by surgical experts

Station 1: Skin and Soft Tissue Suturing

Dr. Julian Diaz-Abele – *Plastic Surgeon*

Room A01 9209A

Station 2: Bowel Anastomosis

Dr. Marianne Gagnon-Konamna – *Colorectal Surgeon*

Room A01 9209B

Station 3: Common Bile Anastomosis

Dr. Zhixia Rong – *Hepatobiliary Surgeon*

Room A02 9209A

Station 4: Vascular Anastomosis

Dr. Nathalie Beaudoin – *Vascular Surgeon*

Room A02 9209B

Station 5: Basic Laparoscopic Skills

Dr. Frédéric Mercier – *Laparoscopic Surgeon*

Room A03 9209B

9:45 am – 11:35 am



Golden Scalpel Abstracts

Moderators: **Dr. Mary Brindle** – *Chair, Canadian Association of Chairs of Surgical Research (CACSR)*

Dr. Jake Barralet – *Vice Chair (Research), Department of Surgery, McGill University*

Learning Objective:

1. Describe the scope of important surgical research being done across Canada and the role of trainees in this research.

Interactive Learning: 5 minutes for presentation & 4 minutes for Q&A for each abstract

TIME	PRESENTER	TITLE
9:45	Janyssa Charbonneau	Oncologic Outcomes After Surgical Resection versus Tumor ablation in Early-Stage Hepatocellular Carcinoma: A Systematic Review of Randomized Controlled Trials with Meta-Analysis
9:54	Jordana Williams	Detection of high-risk human papillomavirus provides important diagnostic and prognostic information
10:03	Anna Duncan	The effect of silver on re-epithelialization, infection and hypertrophic scarring of partial thickness burns in pediatric patients: A randomized controlled trial
10:12	Kara Nadeau	Timely Completion Of EPAs In General Surgery Residency: A Quality Improvement Intervention
10:21	David Mazy	Tough Gel Adhese for Meniscal Repair a New and Innovative Method
10:30	Nawal Amhis	Remodeling of the pancreatic tumour micro environment with oncolytic virotherapy
10:39	Eva Liu	Assessment of the Reverse Fragility Index in Vascular Surgery Randomized Controlled Trials with Statistically Nonsignificant Primary Outcomes: Systematic Review
10:48	Ariane Brassard	Pro-tumour lymph node remodeling during cancer is not tumour-cell specific
10:57	Ahmed Shoeib	Micro cost-effectiveness analysis of standard vs mini percutaneous nephrolithotomy: a single Canadian institution's experience
11:06	Sneha Raju	Directional communication by endothelial cells through polarized release of extracellular vesicles: implication
11:15	Sasha Létourneau	Augmented Reality Hand-tracking: An Accessible Solution for Accurate and Reliable Remote Finger Joint Range of Motion Measurement
11:24	Kiana Mahboubi	The association of ethnicity and oncologic outcomes for oral cavity squamous cell carcinoma (OSCC)

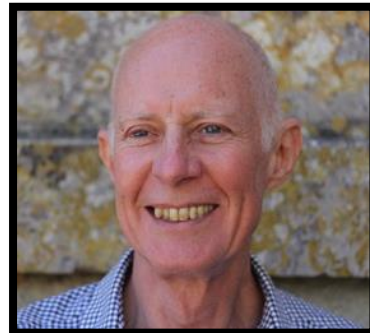
11:35 am – 12:35 pm

Golden Scalpel Keynote Speaker

Surgical Experts: Born or made?

Prof. Roger Kneebone

*Director, Imperial College Centre for Engagement
& Stimulation Science
(England)*



Learning Objectives:

1. To understand the path from novice to expert, within and across domains of expert practice.
2. To examine how this concept might apply to participants' experience of teaching and learning within clinical practice.

Interactive Learning: 45 minutes for the presentation followed by 15 minutes for Q&A

12:35 pm – 1:30 pm

LUNCH

*Hot Buffet Lunch Provided
Location: Agora at CRCHUM (900 rue Saint-Denis)*

1:30 pm - 2:55 pm

Scientific Session III: CanMEDS and Surgical Curriculum

Moderators: **Dr. Chris Smith** – *General Surgeon, Memorial University*

Dr. Dan Moldoveanu – *Fellow, University of Toronto*

Learning Objectives:

1. Describe current topics in undergraduate and postgraduate curricula.
2. Describe competency-based models in undergraduate and postgraduate surgical education.
3. Describe types of evaluation and assessment in surgical education.

Interactive Learning: 3 minutes for presentation & 3 minutes for Q&A for each abstract

TIME	PRESENTER	TITLE
1:30	Sonaina Chopra	How are emotions of medical residents and faculty in General Surgery impacted by new assessment mandates implemented in medical education?
1:36	Anser Daud	Outcomes of the Canadian Orthopaedic Surgery Medical Education Course (COSMEC)
1:42	Mostafa Bondok	Improving Operating Room Teamwork: Do Current Strategies Offer Actionable Solutions?
1:48	Nehal Islam	McGill SEAD: Impact on Medical Students' Perception and Skills in Surgery
1:54	Luca Ramelli	A Comparative Analysis of Video-Based vs. Text-Based Learning Resources for Foley Catheter Insertion and the Implications for Medical Student Procedural Skills Training: A Pilot Study
2:00	Charlotte McEwen	Anatomy of a Strategic Plan for Education: Driving Innovation in McMaster's Division of Cardiac Surgery
2:06	Victoria Blouin	Optimizing the Learner's Role in Feedback: Development of a Feedback-Preparedness Online Application for Medical Students in the Clinical Setting
2:12	Maren Brodovsky	Undergraduate surgery learning objectives: illuminating discrepancies among Canadian medical schools
2:18	Éolie Delisle	The impact of a surgical boot camp and near-peer teaching on the acquisition of basic surgical skills in medical students transitioning to clerkship
2:24	Alexander Moise	Exploring the Impact of LearnENT's Social Media as a Powerful Tool in OHNS Medical Education
2:30	Giuseppe Retrosi	Assessing the Accuracy of Responses by ChatGPT to Questions Regarding Pediatric Surgery
2:36	Joseph Petruccelli	The importance of understanding the personalities of surgeons when choosing a career: medical students' perspectives
2:42	Alexandra D'Souza	Development and Pilot of A Plastic and Reconstructive Surgery Case-Based Learning Curriculum

<p>2:55 pm – 4:00 pm</p>	<p style="text-align: center;">Round-table Discussion: How Technology Can Transform Learning in Surgery</p> <p><u>Moderator:</u> Dr. Giuseppe Retrosi – <i>Vice Chair, CUSEC & Paediatric Surgeon, University of Manitoba</i></p> <p><u>Panelists:</u> Dr. Ge Shi – <i>PGY4, Western University</i> Dr. Jason Harley – <i>Director, Simulation, Affect, Innovation, Learning, and Surgery (SAILS) Lab</i> Dr. Rolando Del Maestro – <i>Director of the Neurosurgery Simulation Research and Training Centre, McGill University</i> Dr. Georges Azzie - <i>Paediatrics Surgeon & Program Director, The Hospital for Sick Children</i></p> <p><u>Learning Objectives:</u></p> <ol style="list-style-type: none"> 1. Describe how technology has impacted learning in surgery in the past decade. 2. Define how novel innovations in technology will impact future learning in surgery. <p style="text-align: center; color: red;">Interactive Learning: Panel discussion with audience interaction, moderated session 65 minutes</p>
<p>4:00 pm – 4:30 pm</p>	<p style="text-align: center;">National Undergraduate Surgical Learning Objectives</p> <p style="text-align: center;">Dr. Geoffrey Blair – <i>Clinical Professor Emeritus of Surgery, University of British Columbia</i> & Dr. Abdollah Behzadi – <i>Thoracic Surgeon, University of Toronto</i></p> <p style="text-align: center; color: red;"><i>15 minute presentation, followed by 15 minutes for Q&A</i></p>
<p>4:30 pm - 4:40 pm</p>	<p style="text-align: center;">AWARDS CEREMONY</p> <p style="text-align: center;">Golden Scalpel Award Bilingual Award Best Abstract Award (UME) Best Abstract Award (PGME) John Provan Award Presentation</p>
<p>4:40 pm – 4:45 pm</p>	<p style="text-align: center;">Closing Remarks</p> <p style="text-align: center;">Dr. Erica Patocskai – <i>CUSEC Chair, Department of Surgery, University of Montreal</i></p>

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