

CONFÉRENCE CANADIENNE POUR L'AVANCEMENT DE L'ÉDUCATION CHIRURGICALE



CANADIAN CONFERENCE FOR THE ADVANCEMENT OF SURGICAL EDUCATION

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

### **COMPETENCE to EXCELLENCE**

**Montréal, Québec  
October 13 & 14, 2022**

#### **Conference Programme**

This event 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, and approved by Continuing Professional Development, Temerty Faculty of Medicine, University of Toronto.

You may claim a **maximum 11.5 hours** (credits are automatically calculated).

Each participant should claim only those hours of credit that he/she actually spent participating in the educational program.

**Thursday, October 13, 2022**

9:30 am – 9:35 am

## Welcome to C-CASE 2022

**Dr. Abdollah Behzadi**, *CUSEC Chair, Department of Surgery, University of Toronto*  
&  
**Dr. Michel Carrier**, *Chair, Department of Surgery, University of Montréal*

9:35 am – 11:30 am

## Scientific Session I: Simulation and Technology in Surgical Education

Moderators: **Dr. Julien Letendre**, *Deputy Director, Urology Program, Université de Montréal*  
**Dr. Steve Mann**, *Chair, Orthopaedic Competence Committee, Queen's University*

Learning Objectives:

1. Describe current topics in undergraduate surgical education, such as, virtual teaching and learning, medical student preparation for residency, and surgery clerkship challenges and potential solutions.
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
9:35	Dario Ferri	Immersive Virtual Reality and Cadaveric Bone are Equally Effective in Skeletal Anatomy Education: A Randomized Crossover Non-Inferiority Trial
9:41	Mithusa Sivanathan	Development of Simulators for De-SBE IO Training using Design Thinking and Delphi - A Novel Approach
9:47	Florence Pelletier	The role of collaborative feedback and remote practice in the acquisition of suturing skills by medical students at the University of Montreal
9:53	Florence Bénard	Efficacy Testing of an Affordable and Realistic Small Bowel Simulator for Hand-Sewn Anastomosis
9:59	David Fleischer	Virtual patient case simulations: Their role in Undergraduate and Post-graduate Surgical Training
10:05	Abigail White	Communication Pattern in the Cardiac Surgery Operating Room are Affected by Task Difficulty: A Simulation Model
10:11	Carolyn Lai	Virtual reality simulation for the middle cranial fossa approach – a face, content and construct validation study
10:17	Jenny Chan	Effectiveness of EyeSi Augmented Reality Simulator for Ophthalmology Trainees: A Systematic Review and Meta-Analysis

	10:23	Ali Fazlollahi	Learning Beyond the Objectives: An Evidence-Based Analysis of AI-Selected Competencies in Surgical Simulation Training
	10:29	<i>10-minute stretch break</i>	
	10:39	Stephanie Roberts	SimOscopy: An Accessible 3D Printed & Laser Cut Laparoscopic Surgical Simulator Developed for a Mobile Device
	10:45	Julia Micallef	Capacity Building Using Hub-and-Spokes Model to Produce Customizable Simulators for Surgical Education
	10:51	Keerat Grewal	How Do You Feel?: An Examination of Team Leaders' and Members' Emotions in Surgical Simulations
	10:57	Chinyelum Agu	Trainee Response to Artificial Intelligent Tutor Instruction in Surgical Simulation
	11:03	Trisha Tee	Affective and Cognitive Responses to a Virtual Reality Spine Simulator
	11:09	Ève Sédillot	THE LASER RATING SCALE: A NEW TEACHING TOOL IN OTOLARYNGOLOGY
	11:15	Pedram Akbari	The Effectiveness of a Self-Directed Online Learning Module on Trainee Knowledge and Confidence During Plastic Surgery Clinical Rotations
11:30 pm – 1:00 pm	<p><b>LUNCH BREAK</b></p> <p><i>(Cold Buffet Lunch Provided)</i></p> <p><i>Location: Pierre-Péladeau Amphitheatre</i></p>		
1:00 pm – 2:00 pm	<p style="text-align: center;"><b>“Transforming Surgical Education in the Era of Image-Guided Surgery”</b></p> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 70%;"> <p><b>Dr. Gerald Fried</b>, <i>Professor of Surgery, Associate Dean for Education Technology &amp; Innovation &amp; Director of the Steinberg Centre for Simulation and Interactive Learning, McGill University</i></p> <p><u>Learning Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Describe how simulation has been used for training and assessing technical skills in surgery and for surgeon certification.</li> <li>2. Describe how principles used to train elite performers in a variety of fields can be used to develop and maintain mastery in surgery.</li> <li>3. Incorporate technologies such as artificial intelligence, computervision and extended reality in developing mastery in surgery.</li> </ol> <p style="color: red; text-align: center;"><b>Interactive Learning: 45 minutes for the presentation followed by 15 minutes for Q&amp;A</b></p> </div> <div style="width: 25%; text-align: center;">  </div> </div>		

2:00 pm – 3:30 pm

## Scientific Session II: Technology, EDI in Surgical Education

Moderators: **Dr. Roy Hajjar**, *Resident, General Surgery, Université de Montréal*



**Dr. Jory Simpson**, *Director of MD Program Surgery, University of Toronto*

### Learning Objectives:

1. Describe current topics in undergraduate surgical education, such as, virtual teaching and learning, medical student preparation for residency, diversity in medical student education and surgery clerkship challenges and potential solutions.
2. Describe current topics in postgraduate surgical education, such as, virtual teaching and learning, 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
2:00		<i>10-minute stretch break</i>
2:10	Yao Zhang	Viewing difference between experts and trainee: implication for surgical education
2:16	Claire Skanes	The impact of feedback on laparoscopic skills for surgical residents during COVID-19
2:22	Laryssa Kemp	Evaluating the Effectiveness of Video-Assisted Informed Consent in Surgery: A Systematic Review
2:28	Nour Abou Hamdan	Subpial Resection in a Novel Ex Vivo Calf Brain Epilepsy Simulation Model
2:34	Recai Yilmaz	Comparing the Efficacy of Real-Time Intelligent Coaching System to Human Expert Instruction in Surgical Technical Skills Training – Randomized Controlled Trial
2:40	Reva Qiu	Immersive Virtual Reality for Patient-Specific Preoperative Planning: A Systematic Review
2:46	Alexandra Munn	The Queen Bee Phenomenon in Canadian Surgical Subspecialties: An evaluation of gender biases in the resident training environment
2:52	Ishita Aggarwal	An examination of equity-related experiences of surgical trainees at academic centers across Ontario: Design of a targeted needs assessment
2:58	Sheharzad Mahmood	Empowering women to pursue surgery: Launching a pilot gender congruent mentorship program for medical students
3:04	Reva Qiu	Authorship gender disparity and trends in female authorship in five high-impact orthopedic journals from 2002-2022
3:10	Stuti Tanya	The landscape of Canadian academic surgery: analysis of gender representation, academic rank, and research productivity
3:16	Sofia Valanci-Aroesty	Barriers to surgical peer coaching – What have we learned, and where do we go from here?

3:30 pm – 4:00 pm	<b>COFFEE BREAK</b>
4:00 pm – 5:00 pm	<p style="text-align: center;"><b>“<i>Human Resources in Surgery: Creating a path forward for Canada</i>”</b></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div data-bbox="407 317 732 705" style="text-align: center;">  </div> <div data-bbox="784 354 1211 499" style="text-align: center;"> <p><b>Dr. Susan Moffatt-Bruce,</b> <i>Chief Executive Officer, Royal College of Physicians and Surgeons of Canada</i></p> </div> <div data-bbox="1248 317 1544 705" style="text-align: center;">  </div> </div> <p style="text-align: center;"><b>&amp;</b></p> <div style="display: flex; justify-content: center; align-items: center;"> <div data-bbox="784 537 1211 716" style="text-align: center;"> <p><b>Dr. Glen Bandiera,</b> <i>Executive Director, Specialty Education Officer, Royal College of Physicians and Surgeons of Canada</i></p> </div> </div> <p><u>Learning Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Provide an overview of how the Royal College considers issues of health workforce planning in its core work.</li> <li>2. Discuss trends and challenges pertinent to Surgical workforce planning that the Royal College is responding to.</li> <li>3. Provide an update on emerging initiatives and opportunities related to health workforce planning.</li> <li>4. Encourage discussion about how best to prepare learners striving for a career in surgery.</li> </ol> <p style="text-align: center; color: red;"><b>Interactive Learning: 45 minutes for the presentation followed by 15 minutes for Q&amp;A</b></p>
6:30 pm – 9:00 pm	<p><b>SOCIAL DINNER</b></p> <p><i>(Open for attendees who purchase dinner with registration)</i></p> <p><i>Location: Café Ferreira</i></p>

Friday, October 14, 2022

9:30 am – 11:30 am

## Golden Scalpel Presentation

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

(9:30am – 10:00am)

### Golden Scalpel Keynote Speaker

### **“Gun Violence is a Public Health issue: Turning Advocacy to Impact”**

**Dr. Najma Ahmed**, *Vice-Chair, Education, Department of Surgery, University of Toronto & Surgeon-in-Chief, St. Michael’s Hospital*



### Golden Scalpel Abstracts

#### Learning Objective:

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

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

TIME	PRESENTER	TITLE
10:00	Edward Percy	Long-term Outcomes of Arterial Conduit Configurations in Multiarterial Coronary Artery Bypass Grafting
10:06	Shelly Luu	FAM46C expression predicts post-resection survival and suppresses progression in gastric adenocarcinoma
10:12	Jason Dagher	Bioengineering and Long-term Storage of Organ Constructs for Transplantation
10:18	Regina Leung	Development of a 5 Second Workflow Tool to Accurately Measure and Document Finger ROM Using Advanced Mixed Reality Headsets
10:24	Kevin Verhoeff	Impact of LMWH Selection on the Rate of Prophylactic Anti-Xa Achievement and Venous Thromboembolism Following Hepato-Pancreatico-Biliary Surgery: A Prospective Cohort Study
10:30	Evan Compton	Predicting vocal cord pathology using artificial intelligence
10:36	Rachel Wong	Nephrostomy tube vs. ureteral stent for obstructing septic calculi: a nationwide propensity score matched analysis
10:42	Nawaf Abu-Omar	Dexamethasone-supplemented TAP blocks may reduce opioid requirements after colorectal surgery: a retrospective study

	10:48	Jacob Hardy	Mastectomy Incision Design in Immediate Breast Reconstruction: Quality-of-Life and Surgical Outcomes.
	10:54	Nader Hanna	Incidence, Timing and Outcomes of Venous Thromboembolism during Treatment of Esophagogastric Cancer: A Population-Based Cohort Study
	11:00	Jenny Moon	Evaluation of Current Rectal Cancer Survivorship Care: Unmet Patient Needs and Fragmented Care among Specialists and General Practitioners
	11:06	Joel Bierer	Inflammation and Ultrafiltration: Enhancing Recovery after Pediatric Cardiac Surgery
	11:12	Roy Hajjar	The gut microbiota modulates colorectal anastomotic healing in patients undergoing surgery for colorectal cancer
	11:18	Keiss Douri	RANO-BM response criteria: Verification study

11:30 pm – 1:00 pm

## LUNCH BREAK

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

1:00 pm – 2:00 pm

# C-CASE

## C-CASE 2022 Keynote Speaker

***“Surgeon and researcher: Is this possible and is it worth it?”***

***Dr. Fred Saad, Professor and Chief of Urology,  
Endowed Chair in Prostate Cancer Research, University  
of Montreal,  
Chairman, Canadian Uro-Oncology Group  
&  
Chairman, NCIC-GU site***



### Learning Objectives:

1. Review the challenges and rewards of research in a surgical career.
2. Review the importance of creating networks to succeed as a clinician scientist.
3. Review the balancing act of an academic career and a healthy family life.
4. Review Canadian contributions in practice changing research in prostate cancer.

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

2:00 pm – 3:30 pm

## Scientific Session III: CanMEDS and Surgical Curriculum

Moderators: **Dr. Ahmer Karimuddin**, *Co-Director, General Surgery Residency Training Program, University of British Columbia*  
**Dr. Alexandra Mortimer**, *Director of Undergraduate Surgical Education, University of Saskatchewan*

### Learning Objectives:

1. Describe current topics in undergraduate and postgraduate surgical education 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 Q&A from audience for each poster presenter*

TIME	PRESENTER	TITLE
2:00	Abdulrahman Jad	Improving adherence to post-call departure guidelines in Orthopaedics: a quality improvement initiative
2:06	Yao Zhang	Increasing Familiarity among Team Members Helps to Reduce Laparoscopic Procedure Time
2:12	Sébastien Belliveau	Assessment of Student Exposure to Climate Impacts of Surgical Personal Protective Equipment in Undergraduate Medical Curriculum
2:18	Jenny Jing	Shared Decision-Making and Evidence-Based Medicine: Pivotal or Trivial to Patient Care in Orthopedic Trauma?
2:24	Victoria Schouela	Implementing an Orientation Handbook prior to a Surgical Rotation in Urology
2:30	Morgan Gold	Assessment of Medical Student Exposure to and Satisfaction with Surgical Subspecialty Education
2:36	Tyler Hauer	Evaluating the Canadian Orthopaedic Surgery Medical Education Course (COSMEC)
2:42		<i>5-minute stretch break</i>
2:47	Giuseppe Retrosi	Virtual versus In-person Surgical Grand Rounds: Participants' Perceptions, Preferences and Directions for the Future
2:53	Rosephine Del Fernandes	Quality of narrative feedback for Entrustable Professional Activities assessed in the Operating Room: Analysis of 4 years of assessments in the Surgical Foundations curriculum at Queen's University
2:59	Fabio Botelho	A Debriefing Tool to Acquire Non-Technical Skills in Trauma Courses
3:05	Raahulan Rathagirishnan	Exploring Skin Tone Diversity in a Plastic Surgery Resident Education Curriculum
3:11	Nicole Stachura	Video-Based Assessments of Thoracic Surgery Trainees' Operative Skills as Adjuncts in Competency-Based Medical Education.
3:17	Basmah AlTinawi	The Application of Microlearning Modules in Surgical Education to Enhance Procedural Skills and Surgical



	3:23	Mathew Hindi	The Categorization of Surgical Problems by Junior and Senior Medical Students
3:30 pm – 4:00 pm	<b>COFFEE BREAK</b>		
4:00 pm – 5:00 pm	<p style="text-align: center;"><b>Round-table discussion: “Surgical Clinical Teaching Units in the 21<sup>st</sup> Century”</b></p> <p>Moderator: <b>Dr. Abdollah Behzadi</b>, <i>CUSEC Chair, Department of Surgery, University of Toronto</i></p> <p>Panelists:  <b>Dr. Vaibhav Gupta</b>, <i>Thoracic Surgery Resident, Western University</i>  <b>Dr. Ahmer Karimuddin</b>, <i>Co-Director, General Surgery Residency Training Program, University of British Columbia</i>  <b>Dr. Roy Kirkpatrick</b>, <i>Chief, Department of Surgery, Northern Ontario Medical School</i>  <b>Dr. Alexandra Mortimer</b>, <i>Director of Undergraduate Surgical Education, University of Saskatchewan</i>  <b>Ms. Stephanie Roberts</b>, <i>Medical Student, Memorial University</i>  <b>Dr. Lucas Sideris</b>, <i>Program Director of the Surgical Foundations, University of Montreal</i></p> <p><u>Learning Objectives:</u></p> <ol style="list-style-type: none"> <li>1. Describe current topics in undergraduate and postgraduate surgical education curricula.</li> <li>2. Describe competency-based models in undergraduate and postgraduate surgical education.</li> <li>3. Describe types of evaluation and assessment in surgical education.</li> </ol> <p style="text-align: center;"><i>Interactive Learning: Panel Discussion with Audience, moderated session 60 Minutes</i></p>		
5:00 pm – 5:15 pm	<p><b>National Objectives for Undergraduate Surgical Education</b></p> <p><b>Dr. Geoffrey Blair</b>, <i>Director, UBC Undergraduate Surgical Education, BC Children's Hospital</i></p>		
5:15 pm – 5:45 pm	<p><b>AWARDS CEREMONY</b></p> <p>Golden Scalpel Award  Bilingual Award  Best Abstract Award (UME)  Best Abstract Award (PGME)  CUSEC Outstanding Postgraduate Surgical Educator Award Presentation</p>		
5:45 pm – 5:50 pm	<p><b>Closing Remarks</b></p> <p><b>Dr. Abdollah Behzadi</b>, <i>CUSEC Chair, Department of Surgery, University of Toronto</i></p>		