

Department of Surgery Research Day

June 25, 2025 | 10:00 a.m. | Darryl J. King Student Life Centre
King's University College

Program Learning Objectives

At the conclusion of this conference, participants will be able to:

1. Describe current research activities in the Department of Surgery.
2. Assess opportunities for all prospective research collaborations with the Department of Surgery.
3. Describe principles of patient focused research.

25% of this program is dedicated to participant interaction

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, Schulich School of Medicine & Dentistry, Western University. You may claim a maximum of **3.50 hours** (credits are automatically calculated).

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

Named in honour of Dr. Robert Zhong, a brilliant scientist and colleague who passed away in London, Ontario on September 8, 2006.



Dr. Robert Z. Zhong was born in Shanghai, China on January 16, 1946. He graduated from Shanghai No 1 Medical University and was then assigned by the government to work as a general surgeon in a community hospital. Dr. Zhong attended a seminar led by Dr. Sun Lee – considered to be the founding father of experimental microsurgery – and whom he would later credit to be one of the most important mentors of his life.¹

Dr. Zhong arrived in Canada first as a research fellow under the supervision of Drs. John Duff and Calvin Stiller in 1984. His persistence and vision led to a fulltime appointment and microsurgical animal models that would be applied in human transplantation clinical practice.

Recognizing that molecular biology and transplant immunology were critical to the future of transplantation, Dr. Zhong began his study of these fields in Canada to become one of the world's leading experts in transplantation and microsurgery. He went on to become a Tier One Canada Research Chair in Transplantation and Experimental Surgery in 2004 and was appointed a full Professor in the Departments of Surgery, Pathology, and Microbiology & Immunology at The University of Western Ontario. Dr. Zhong was a scientist at the Robarts Research Institute; Director of the Microsurgery Laboratory at LHSC; and a scientist at the Lawson Health Research Institute.

Dr. Zhong's influence into the fields of transplantation and microsurgery were profound and far-reaching. He was Past President of the International Society of Experimental Microsurgery; a member of the Canadian Society of Transplantation, American Society of Transplantation; and the American Society of Transplant Surgeons. Dr. Zhong was awarded the Lifetime Achievement Award by the Canadian Society of Transplantation posthumously in 2007. Dr. Zhong published over 180 peer-reviewed publications and achieved millions of dollars in research grant funding.

He supervised more than 70 graduate students and fellows and trained over 70 microsurgeons worldwide during his 21- year career at Western. His superb leadership and vision were recognized as having created an internationally renowned program in experimental transplantation. A brilliant scholar, teacher, and mentor, Dr. Zhong is also remembered as a man of great humility, kindness, and respect.

Dr. Robert Zhen Zhong passed away in London, Ontario on September 8, 2006.

¹Zhong T. (2007), Dr. Robert Zhen Zhong: A tribute by his daughter. *Microsurgery*, 27:214-215.

Welcome

10:00 a.m.

Registration

10:15 a.m.

Poster Session

11:15 a.m. – 12:00 p.m. LUNCH (45 Minutes)

12:00 p.m.

Opening Remarks: **Dr. Emil Schemitsch**,

Award Winning Resident Platform Presentations – (8 min. each, 2 min. for questions)

12:15 p.m.

Dr. Mohsyn Malik, *Division of Cardiac Surgery*

Random Survival Forest: An Artificial Intelligence Machine-Learning model for personalized prediction of long-term Mitral Valve Repair durability

12:25 p.m.

Dr. Bojana Misheva, *Division of Thoracic Surgery*

Video-Based Assessments of Thoracic Surgery Trainees' Operative Skills as Adjuncts in Competency-Based Medical Education

12:35 p.m.

Dr. Brandon Herrington, *Division of Orthopaedic Surgery*

Vancomycin Antibiotic Prophylaxis Compared to Cefazolin Increases Risk of Surgical Site Infection Following Spine Surgery

12:45 p.m.

Dr. Jovana Momic, *Division of General Surgery*

Creation of a New Urgent General Surgery Clinic – Assessment of Clinical Outcomes, Healthcare System and Economic Impacts, and Patient Perspectives

12:55 p.m.

Dr. Lee Benaroch, *Division of Paediatric Surgery*

Risk of Secondary Surgery, Residual Dysplasia, and Avascular Necrosis Following Late Closed or Open Reduction of Developmental Dysplasia of the Hip: a Systematic Review and MetaAnalysis

1:05 p.m.

Dr. Erica Li, *Division of Urology*

Decoding Digital Discourse: Analysis of Online Sentiments on Urology Program Discussion

1:15 p.m.

Dr. Eric Mitchell, *Division of Plastic & Reconstructive Surgery*

The Impact of Time to Reduction on Outcomes After Perilunate Injury

1:25 p.m.

Dr. Kelsey Ambrose, *Division of Vascular Surgery*

A Retrospective Review of Blunt Cerebrovascular Injuries at LHSC

MSc Platform Presentation (8 min., 2 min. for questions)

1:35 p.m.

Dr. Brynn Charron, Midterm Analysis of Acetabular Migration Using Conventional and CT-Based Radiostereometric Analysis

1:45 – 2:00 p.m. BREAK (15 Minutes)

Keynote Address (30 min., 15 min. for questions)

2:00 p.m.

Dr. Mohit Bhandari, O.Ont, C.M. MD, PhD, FRCSC
Distinguished University Professor and Chair,
Senior Tier Canada Research Chair,
Editor-In-Chief, The Journal of Bone and Joint Surgery



Quantum Creativity: Small Life Changes, Bigger Impact!

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

1. Discuss a relative crisis in creativity in academics
2. Provide several actions targeted towards creative thinking

Faculty Presentations (12 minutes each, 3 minutes for questions)

2:45 p.m.

Dr. Ahmad Elnahas

Big Data/ICES

Optimizing Surgical Efficiency: Using Machine Learning Algorithms to
Predict Case Duration of Common General Surgery Procedures

3:00 p.m.

Dr. Patrick Thornley

Patient Centered Research Node

Trust the Process: Patient Centered Research

3:15 p.m.

Dr. Brad Moffat,

QI Node

One Third of Trauma Patients are Missing Doses of VTE Prophylaxis: A Trauma Quality Improvement Study

3:30 p.m.

Dr. Oonagh Scallan,

Surgical Education Node

Returning to Surgical Residency After Maternity Leave: Exploring Challenges and Shining a Light on the Motherhood Advantage

3:45 p.m.

Dr. Brant Inman

Fundamental Sciences & Surgical Innovation Node

Single Cell Sequencing for Determining How Cancer Evolves Within Patients. An Example With Prostate Cancer

Wrap Up

4:00 p.m.

Presentation of the Walker Research Day Award and Best Resident/Fellow Research Oral Poster presentation, and Closing Remarks: **Dr. Emil Schemitsch** and **Dr. Paul Walker**

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Please contact us at 519-663-3349 if you require information in a different format or if other arrangements can make this event accessible to you.