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INTERIM CHAIR MESSAGE

Welcome to the Department of Anesthesiology and Pain Medicine. Our department is committed to excellence in clinical care, exemplary postgraduate education in anesthesiology, perioperative and pain medicine; and the discovery and dissemination of new knowledge in both basic science and clinical/translational research. The department consists of 6 full time Faculty and over 200 clinical Faculty based at 11 hospitals, including 4 major teaching hospitals, in the Edmonton area. These facilities provide a full range of complex medical and surgical care including trauma, cardiac, neuro, vascular, and thoracic surgery, critical care, obstetrics and gynecology, burns, surgical and critical care of infants and children and solid organ (heart/lung, liver, and kidney) transplantation.

This past year has been challenging yet again as we faced further successive waves of the COVID pandemic. As staff and resources were redeployed away from operating rooms in order to contribute to the COVID response we saw large reductions in surgical volume. With the gradual ebbing of active COVID infections we saw subsequent increases in surgical capacity in an attempt to address the backlog. Throughout this difficult time, it has been impossible not to notice how staff and colleagues responded to each new challenge. Whether working in a redeployed capacity in ICU, caring for COVID patients in the operating room or dealing with family and professional matters from home, the desire to contribute collectively was inspiring.

We found solutions to problems we had never faced before. Dr. Heather Ting, Residency Program Director, and Kay Kovithavongs, Residency Program Administrator, transitioned resident learning and assessments to a virtual platform. They ran a successful virtual CaRMS interview series for the first time ever. Dr. Adrianna Woolsey reinvented Journal Club and her efforts to this end have been a great success. Dr Bradley Kerr, Associate Chair for Research, presided over our first virtual Gelfan and Bell Department Research Day. The Clinical Site Chiefs at each of our hospitals, Dr. Michael Hogan at the University Hospital, Dr Alan Cheng at the Royal Alexandra Hospital, Dr. Will Flexer at the Misericordia Hospital and Dr Matt Simmonds at the Grey Nuns Hospital, coordinated the pandemic response while dealing with a growing staffing crisis. They listened to us, they supported us, and they made sure we continued to deliver the best possible care to our patients. Throughout all this, our Site Chiefs had the best possible stewardship from our Zone Clinical Leads, Drs Dominic Cave and Neil Klassen.
Dr Michael Jacka was the local Primary Investigator for the PVC-RAM study - Post Discharge after Surgery Virtual Care with Remote Automated Monitoring Technology. This innovative randomized controlled trial continues to inform the Edmonton Zone Virtual Surgical Hospital initiative. Drs Timur Ozelsel and Vivian Ip reminded us by way of several high-profile publications that we may be in the middle of a once in a lifetime pandemic, but our response must respect the tenets of environmental sustainability. Dr James Green, Director of Regional Anesthesia University Hospital, continued to advocate for regional anesthesia as the preferred choice whenever possible, and through the pages of Anesthesia and Analgesia advised the wider anesthesia community on how to make anesthesia for shoulder surgery safer for all operating room staff. Stephanie Russell, Assistant Chair Administration, continued to run the same tight ship while administrative support staff worked from home. Flexibility, dedication and courage. These are the values I see everywhere as I look back over the past year.

We foster a culture of curiosity and discovery. From medical student to internationally renowned professor we continue to make our presence felt on national and international platforms. Swetha Prakasha and Maggie Xiao, both University of Alberta medical students, were recipients of the 2021 Canadian Anesthesiologists’ Society (CAS) Medical Student Prize. On the anesthesia resident front, Dr Allyson Farran won Best Paper in Pediatric Anesthesia at the 2021 CAS Annual Meeting while I was very happy to see Dr Melissa Shears appointed as the resident member of the CAS Research Advisory Committee. Dr Michael Zaugg, in addition to helming another successful CIHR application was recognized for his many years of innovative research by being appointed Associate Editor at Anesthesiology, one of our most prestigious journals. In total, department members secured $1,060,737 in external funding this year. Internally, the inaugural Jean Hugill Research Award recipients were named in 2021. Witnessing the enthusiasm for this seed funding competition was one of the highlights of my year and I am excited for what comes next as we continue to build our research infrastructure.

This year we said farewell to some cherished colleagues who retired from clinical and academic duties. Many anesthesiologists in Edmonton owe a special debt of gratitude to Dr Barry Finegan who retired in September 2020. Erudite and inspirational throughout his remarkable career, we wish him, and all our recently retired colleagues, the very best in their future endeavours.

The resolve to deliver the best care, teaching and research in the face of adversity defines who we are. We are a resilient group, and we support each other. It is an honour for me to work with such a wonderful community of professionals.

Dr. Derek Dillane
Associate Professor and Interim Chair
Department of Anesthesiology and Pain Medicine
Faculty of Medicine and Dentistry
DEPARTMENT HISTORY
The history of anesthesia at the University of Alberta is as old as the institution itself. The precursor to the University of Alberta Hospital, Strathcona Hospital, was a five storied building with a 150-bed capacity which opened in 1914. Medical education at the University of Alberta also began in 1914 with twenty-six students. As the Great War was looming, Strathcona Hospital came under the authority of the Federal Government. From 1916 to 1922 the hospital was known as the Strathcona Military Hospital. In 1922 the hospital became fully affiliated with the University of Alberta and was renamed the University Hospital.

At that time there were no formal training programs in anesthesia and therefore, anesthetics were administered by general practitioners. The earliest reports from the University Hospital in 1922 listed Dr. L.F. Jones as the Director of Anesthesia and his assistants included: Dr. J. Blezard, L. May, I. Bell and J. Oswald. In 1928 the annual report named Dr. J. Blezard, Director of Anesthesia, and Dr. J. E. Carmichael Assistant Anesthetist. Dr. Blezard was appointed Lecturer in Anesthesia in that same year.

Ernie A. Watts graduated from the University of Alberta with an MD degree 1930. He completed his internship at the University of Alberta Hospital and then decided to pursue a career in anesthesia. There were no formal training programs in anesthesia at that time but there were some reputable teachers of the art and science of anesthesia in Eastern Canada and the most respected was Dr. Wesley Bourne at McGill University. Watts applied for training there and spent three years at McGill (1931-1934) learning the basics of anesthesia. During his three-year training period in Montreal, Dr. Watts made several trips to Madison, Wisconsin to learn from Dr. Ralph Waters, who was the pre-eminent educator in anesthesia in the world at that time.

Dr. Watts returned to the University of Alberta Hospital in 1934 as Assistant Anesthetist and in 1936 was appointed Director of Anesthesia at the University of Alberta Hospital. Dr. Watts established a full time Hospital Department of Anesthesia and introduced an intern service. Dr. Watts was appointed Lecturer in Anesthesia at the University in 1937. Formal teaching of anesthesia was carried out by the Division of Therapeutics in the Department of Medicine, unlike most anesthesia departments, which were strictly under the control of the Department of Surgery. Dr. Irving Bell was the Director of therapeutics but was also a busy anesthetist. He and his colleague Samuel Gelfan, a member of the Department of Pharmacology, conducted the very first clinical trials in humans in North America on a new anesthetic, divinyl ether, which was approved for clinical use worldwide in 1933.

Dr. Watts served in the military in World War 2 from 1942 to 1945. He continued in his leadership role at the University of Alberta after the war but his career in Anesthesia was short lived due to ill health. However, prior to retirement he established a training program in Anesthesia in 1948. This training program was accredited by the Royal College. The first fellowship trained resident from this program, Dr. Ted Gain, graduated in 1951. Dr. Gain was appointed Director of Anesthesia at the University of Alberta upon Dr. Watts’ retirement in 1951.

In 1955 Anesthesia became an independent Department under the leadership of Dr. Ted
Gain with a staff of six full time hospital employed anesthetists. Dr. Gain was appointed Clinical Professor and Head of the University Department in that same year. From 1948 until 1975 the Department of Anesthesia at the University of Alberta trained fifty-two residents. In 1974 there were twelve residents in training and fifteen staff anesthesiologists at the University Hospital. Dr. Gain was a very important member of Dr. John Callaghan's team that completed the first open heart procedure in Canada, at the University of Alberta Hospital in 1956.

In 1957 a major change occurred at the University Hospital. All members of the Department of Anesthesia elected to become independent, fee-for-service providers except the Head of the Department, who remained a hospital employee. This arrangement persisted until Dr. Gain's retirement in 1975, when he recommended that his successor should be a full university employee.

Dr. George T. Moonie succeeded Dr. Gain in 1975 and served as Chair of the Department of Anesthesia until his retirement in 1984. Dr. Moonie graduated from the University of Alberta in 1948 and completed his training in anesthesia at the University of Alberta with full Royal College credentials.

Dr William B. MacDonald was appointed Chair in 1984. He obtained his MD from the University of Saskatchewan in 1959 and was also a Royal College trained anesthetist. Dr. MacDonald completed his term as Chair in 1988.

Dr. Brendan Finucane was appointed Professor and Chair, Department of Anesthesia in 1989. Up to this time the Department had a very good reputation as a strong clinical department but had very little research productivity. The reason for this deficit was that there were only two Geographic Full Time (GFT) University funded positions in Anesthesia at that time, one of which belonged to the Chair. Under Dr Finucane's leadership, the number of GFT positions increased to six. Dr. Finucane's mandate was also to extend the reach of the Department beyond the operating room, especially in the discipline of Acute and Chronic Pain and Perioperative Care. In the process of doing so he changed the name of the department to the Department of Anesthesiology and Pain Medicine. The other major change he made was to place more emphasis on sub-specialization, especially in pediatrics. Dr. Finucane completed two, five-year terms as Chair and his successor was Dr. Barry Finegan in 1999.

Dr Barry Finegan took the research agenda to another level as we entered the new millennium. He was a highly respected researcher and excellent collaborator and mentor, and the Department thrived under his leadership. He was an excellent grantsman and was highly successful in obtaining research funding at a national level throughout his academic career. During his tenure as Chair, the Department of Anesthesiology and Pain Medicine at the University of Alberta was among the top four anesthesia departments in Canada in terms of research productivity, based on the number of publications in peer reviewed journals per year.

Dr Michael Murphy was appointed Professor and Chair, Department of Anesthesiology and Pain Medicine at the University of Alberta from 2010-2016. Prior to this appointment Dr Murphy held the position of Head of the Department of Anesthesiology, and Professor of Anesthesiology and Emergency Medicine at Dalhousie University from 2005-2010. He is
an internationally recognized educator in the field of procedural sedation and airway management and is a founding Director of the Difficult Airway Courses: Anesthesia, Emergency, EMS and Critical Care.

Dr Saifee Rashiq held the position of Interim Chair between 2016 and 2018. Dr Rashiq, a product of the department’s residency program, joined the small group of locally trained Chairs since Dr Moonie held the position in 1975.

Dr Andrew Shaw succeeded Dr Rashiq as Department Chair in 2018, and he also assumed the position of Edmonton Zone Clinical Lead. Dr Shaw, an internationally recognized cardiac anesthesiologist, came to Edmonton by way of Vanderbilt University Medical Center where he had been Chief of Cardiac Anesthesia.

It is interesting that almost one hundred years have elapsed since the first Director of Anesthesia at the University Hospital, was appointed. It is also interesting to note that there have been 10 Department Heads in that one hundred or so years, excluding those who have been in an Interim role. It is surprising to me how few gaps there have been in those one hundred years. At the same time, we would like to give credit to those who have helmed the department in an interim role, Dr. Doug Duval 1988-1989, Michael Auld 2009-2010 and Dr. Saifee Rashiq 2016-18. One other important point to be noted is that the lion’s share of resident teaching has been done on a volunteer basis by our colleagues in the affiliated hospitals across the city and for that we are extremely grateful. We estimate that more than 300 trainees have graduated from the University of Alberta, Anesthesia Training Program since 1951, when the Royal College first began credentialling trainees in Anesthesia.

Dr Brendan Finucane
Professor Emeritus
Department of Anesthesiology and Pain Medicine
Faculty of Medicine and Denistry
University of Alberta
FACILITIES

Cross Cancer Institute
Manzankowski Alberta Heart Institute
Sturgeon Community Hospital
Fort Saskatchewan Community Hospital
Misericordia Hospital
University of Alberta Hospital
Grey Nuns Community Hospital
Royal Alexandra Hospital
Westview Health Centre
Leduc Community Hospital
Stollery Children’s Hospital
AWARDS & RECOGNITION

INTERNAL AWARDS

2021 DR. JEAN HUGILL RESEARCH AWARDS

Yuqi Gu & Allyson Farran
**Immersive Video To Teach Cannot Intubate Cannot Ventilate Scenarios: A Simulation-based randomized Control Trial**

Montana Johnson & Ariane Fielding
**Variability of Phenylephrine Concentration in Clinical Settings**

Mancho Ng & Darren Freed
**Pediatric enhanced recovery after cardiac surgery: a single-centre retrospective study**

Surita Sidhu & Wing Lam
**Three Dimensional Assessment of Right Ventricular Function in Patients Undergoing Leddt Ventricular Assist Device Implantation**

Angela Neufeld & Wing Lam
**Large Value Autologous Whole Blood Therapy for Reversing Cardiopulmonary Bypass Induced Coagulopathy in High Risk Patients: Randomised Control Trial 2021**

TEACHER OF THE YEAR

Dr. Yuqi Gu

DR. BRENDAN T FINUCANE RESIDENT ORAL RESEARCH AWARD

1st Place - Dr. Taylor Bucyk

2nd Place - Dr. Varun Suresh

POSTER RESEARCH AWARD

1st Place - Dr. Melissa Shears

2nd Place - Dr. Jaasmit Khurana

DR. BARRY A FINEGAN FELLOW RESEARCH AWARD

1st Place - Dr. Carole-Anne Potvin

2nd Place - Dr. Danika Vautour

EXTERNAL AWARDS

2021 CANADIAN ANESTHESIOLOGISTS’ SOCIETY MEDICAL STUDENT PRIZE

Swetha Prakash
**Improving Rural Access to Anesthesia: The Pursuit of Equitable Patient Care**

Maggie Xiao
**A Vision of a Circular Economy for Plastics in Anesthesia and the Perioperative Arena**

CIHR PROJECT GRANT

Dr. Michael Zaugg
**Optimizing resuscitation of the after circulatory death heart by mitochondrial redox regulation and opioid receptor activation: a protocol for clinical application**

2021 CANADIAN ANESTHESIOLOGISTS’ SOCIETY AWARD

Dr. Allyson Farran (Best Paper in Pediatric Anesthesia)
Dr Masaru (‘Mas’) Yukawa (1977-2017) was Chief of Anesthesia at the Mazankowski Heart Institute. He was an outstanding clinician, teacher and mentor. He died by his own hand, following a longstanding and very private battle with mental illness. By creating this award in his name, his family wishes to stimulate the study and remediation of physical, psychological, organizational and other factors that might cause or perpetuate mental illness in those who work in the Operating Rooms of the University of Alberta Hospitals, and, by extension, in other similar places.

For more information please visit masyukawafoundation.com/

Mas Yukawa Foundation

2020 Dr. Masuru Yukawa Award for Innovation in Workplace Wellness:

Dr. Ariane Fielding - proposal, "Civility and Respect in the OR"
RESEARCH

The Department of Anesthesiology & Pain Medicine in the Faculty of Medicine & Dentistry at the University of Alberta has extensive basic and clinical research programs that promote and encourage innovation and discovery. Research projects and initiatives are conducted on an ongoing basis, and play an important role in our faculty, department, practice and training.

AREAS OF RESEARCH

- Pain Research
- Cardiovascular Research
- Regional Anesthesiology Research
- UofA Pain Interest Group

2020-2021 PUBLICATIONS

- 62 total publications
- 16 publications with Department Faculty as first or senior author
- 3 publications in JAMA Network journal

See full list on page 17.
10th ANNUAL GELFAN AND BELL ANESTHESIA CONTINUING EDUCATION AND RESEARCH SYMPOSIUM

KEYNOTE SPEAKER

The Yellow Brick Road to Research

- Dr. Andre Denault
  MD PhD FRCPC FASE ABIM-CCM, FCCS

GUEST ADJUDICATORS

Dr. Frances Plane
BSc PhD

Dr. Andre Denault
MD PhD FRCPC FASE ABIM-CCM, FCCS

Dr. Jamie Sim
BSc MD FRPC

LAKE LOUISE ANESTHESIA CONFERENCE

2021 Lake Louise Anesthesia Conference was cancelled due to COVID-19
UPDATE FROM THE LABS

DR. MICHAEL ZAUGG

Research in the Zaugg Lab seeks to understand the signaling networks involved in the stress response related to ischemia-reperfusion injury in mammalian cells and tissues, with the goal of translating this knowledge into potential therapies aiming at improving perioperative patient care and outcomes. In addition, we strive to understand the role of metabolic stress and of inflammatory pathways in conditions relevant to perioperative medicine such as major trauma (surgery), transplantation, cardiovascular, and thoracic surgery. Finally, we understand that the enhancement and optimization of nutritional support in surgical and critically ill patients is of great importance at a time of major stress with synthesis of key blood/tissue components and necessary for proper wound healing and recovery (regeneration).

• Conditioning of the heart in cardiac surgery and cardiac transplantation with the aim at reducing reperfusion injury.

• Immuno-metabolism: we are studying the potential to beneficially modulate the activity of the immune system by nutritional interventions with specific metabolic compounds such as lipid mediators (resolvins, maresins) involved in the resolution of the inflammatory state using a mouse model of total parenteral nutrition (TPN).

Collaborations are always welcome and we very much support translational research contributing to the understanding of physiological changes (e.g. genetic, metabolome- or microbiome-related) in response to anesthesia and/or to surgical stress in patients.
Research in the Kerr lab is focusing on the neuro-immune contributions to chronic pain states arising from injury or disease in the nervous system. We have a primary focus on pain in auto-immune disorders such as MS. The lab employs a variety of behavioral assays to assess pain and nociception in rodents and we also use cell and molecular techniques to understand the underlying mechanisms generating chronic pain. In 2018, the Neuroimmunology and Pain Lab at the University of Alberta (UofA) was opened with Dr. Jason Plemel (Dept. Medicine) and Dr. Bradley Kerr (Dept. of Anesthesiology) as co-directors. The Neuroimmunology and Pain lab represents a hub for neuroimmunology research within the Neuroscience and Mental Health Institute (NMHI) at the UofA.
My research group has a longstanding interest in iron deficiency (ID) during pregnancy, and how it affects fetal and placental growth. In addition to increasing the risk of adverse pregnancy outcomes, prenatal ID (like many prenatal insults) can predispose the offspring to a lifetime of health complications. Though our past work in this area has been largely preclinical, our recent publications highlight a concerted effort to translate these findings to the clinical realm.

Iron deficiency (ID) is a pervasive global health issue, and represents one of the most treatable and preventable causes of daily adjusted life-years lost. Yet a worldwide prevalence of ~25%, with a sizeable majority of this burden shouldered by young women and children, underscores the challenges that impede effective treatment. Accurate assessments of maternal and fetal/neonatal iron status and hematological indices are critical for pre- and post-natal interventions to maximize health benefits and minimize adverse outcomes. Although direct sampling of fetal/neonatal blood is possible, it is rarely done. Instead, maternal haematological and iron status indices are used to guide intervention in pregnancy and the neonatal period. However, the prevailing notion that maternal iron status and severity of anemia is a useful surrogate of fetal iron status has not been validated. In fact, our recent clinical study and systematic review challenges this assumption. A discordance between maternal and fetal indices could have implications for fetal and neonatal health, since ID in pregnancy is associated with adverse pregnancy outcomes (e.g. preterm birth, fetal growth restriction, congenital defects). Moreover, ID during gestation may deprive the neonate of critical iron stores needed for optimal growth and development in early postnatal life. Thus, there is an urgent need for better diagnostic methods to diagnose fetal/neonatal ID and anemia to guide intervention strategies during this critical period of life.
## Grants

- **Heart & Stroke Foundation of Canada**: 5%
- **Multiple Sclerosis Society of Canada**: 28%
- **CIHR**: 67%

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<th>Investigator</th>
<th>Year</th>
<th>Funder</th>
<th>Title</th>
<th>Start</th>
<th>End</th>
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<tr>
<td>Bourque, Stephane</td>
<td>2021</td>
<td>Heart &amp; Stroke Foundation of Canada</td>
<td>Mechanisms of programming of cardiovascular dysfunction by perinatal iron deficiency</td>
<td>2020</td>
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<td>Kerr, Bradley</td>
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<td>Multiple Sclerosis Society of Canada</td>
<td>MSSC Operating Grant-Examining inflammatory processes in the DRG as a driver of neuropathic pain in MS</td>
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<td>$295,461</td>
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<td>Zaugg, Michael (PI)</td>
<td>2021</td>
<td>CIHR</td>
<td>Optimizing resuscitation of the donation after circulatory death (DCD) heart by mitochondrial redox regulation and opioid receptor activation: a protocol for clinical application</td>
<td>2020</td>
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<td>$715,276</td>
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**Total**: $1,060,737
EDUCATION

The Department of Anesthesiology & Pain Medicine provides medical training programs across the entire MD educational spectrum (undergraduate, postgraduate and postdoctoral fellowships). Our faculty and educational programs have gained a strong reputation for training clinically sound anesthesia practitioners, and our staff are fully committed to the training and teaching of the next generation of anesthesiologists.

EDUCATION LEADERSHIP

UNDERGRADUATE PROGRAM
Dr. Kelsey Rutten - Undergraduate Director
(term ended January 29, 2021)

POSTGRADUATE PROGRAM
Dr. Heather Ting - Program Director
Dr. Nirupan Vipulanathan - Assistant Program Director

POSTGRADUATE FAMILY PRACTICE PROGRAM
Dr. Will Flexer - Program Director

FELLOWSHIP TRAINING PROGRAM
Dr. Saifee Rashiq - Fellowship Program Director
Associate Chair, Education
Dr. Ciaran Twomey - Regional Anesthesia Fellowship Director
Dr. Angela Neufeld - Cardiac Anesthesia Fellowship Director
Dr. Graham Steel - Pediatric Anesthesia Fellowship Director
Dr. Mark Simmonds - Pain Medicine Fellowship Director
Dr. Ron Cheng - Liver Transplant Fellowship Director
Dr. Michael Zaugg - Transitional Research Fellowship Director
Dr Derek Dillane - Perioperative Ultrasound Fellowship Director

CaRMS

125 APPLICANTS
60 INTERVIEWS
7 MATCHES
ACCREDITATION

We are very pleased to announce that after the 2020 external review of our residency program, a recommendation will be made to the Royal College Accreditation Committee that our program receive a status of “Accredited Program With Follow Up at Next Regular Survey.

LEARNERS

34 RCPSC Residents
3 RCPSC Fellows
3 CFPC Residents
59 Medical Students

EDUCATION EVENTS

GENERAL EVENTS
Transfusion Bootcamp Aug 28, Oct 9, Feb 5, Apr 9, Jun 18
Virtual Residency Fair Feb 11
CaRMS March 17
Journal Clubs Nov 17 & March 25
Research Day May 14
Written exam April 12-13
Applied exam May 5-6

ANESTHESIA KNOWLEDGE TEST (AKT)
AKT-1 PreTest July 1 for R1s & FPAs.
AKT-1 PostTest Aug 5 for R1s & FPAs
AKT-24 Aug 27 for R5s
AKT-6 Dec 9 for R2s & FPAs

SIMULATION
R1 Boot Camp July 20, 21 and 24.
ACRM Dec 7-11 (all residents, incl FPA)
CanNAS NAC Oct 14-16, Feb 1-5
Foundations SIM Feb 22-24 (R1s & R2s)
MEPA March 9-10 (R3s & FPAs)
Senior SIMs April 13-14 (R3s & R4s)
DEPARTMENT MEMBERS

DEPARTMENT STAFF

DEPARTMENT OFFICE
Dr. Derek Dillane - Interim Chair
Stephanie Russell - Assistant Chair - Administration
Heather Clark - Administrative Assistant to Drs. Cave and Klassen
Megan Groat - Administrative Assistant (Scheduler)
Lorraine Nowak - Executive Administrative Assistant
Rosanne Prinsen - Communications Coordinator

EDUCATION
Dr. Saifee Rashiq - Associate Chair, Education
Dr. Heather Ting - Program Director
Dr. Nirupan Vipulananthan - Assistant Program Director
Dr. Saifee Rashiq - Fellowship Program Director
Dr. Will Flexer - CFPC Program Director
Darci Chaba - Program Administrator
Kay Kovithavongs - Program Administrator
Laura Kruzenga - Administrative Support - Fellowship Program

RESEARCH
Maliha Muneer - Clinical Research Coordinator

FACULTY

ASSOCIATE PROFESSOR
Bourque, Stephane

PROFESSOR
Dick, Bruce Kerr, Bradley Rashiq, Saifee Zaugg, Michael

CLINICAL LECTURER
Abulhamayel, Tammam
Amyotte, Nicholas
Bailthoun, Hala
Baldonado, Narciso
Bittencourt, Ricardo
Bobart, Vonda
Booyse, Corne Francois
Brin, Geoff
Byers, Justin
Calvert, Robert Andrew
Campbell, Elroy
Charlton, Jeff
Cheung, Joseph
Chung, Brendon
Colcy, Elizabeth
Datta, Ansuman
Dattilo, Franco
Duthie, Justin
Gamez, Ryan David
Garrett, Kyle
George, Anthony
Gilchrist, Ainslie
Gill, Rajwinder
Godelewski, Bartosz
Goranson, Blair
Hajat, Zakir
Halliday, Susan
Heinrichs, Jeffrey
Heyns, Martinus(Daneel)
Hoda, Syed (Zia)
Horne, Sara
Jewer, Kyle
Kokotilo, Matthew
Kosick, Thomas
Kozaiak, Adrian
Kreitz, Andrea

Kwon, Elena
Labbaf, Saeed
Largoza, Josef
Leighton-Lane, Dayna
Lima, Ronald
Lindsay, Martine
Marois, Judith
McGowan, Liam
Mohamed, Karim
Moyo, Jabulani
Murray, Katie
Oman, Kathleen (Katie)
Osmond, Colette
Quapp, Russell James
Quigley, Nicole
Rutten, Kelsey
Saran, Jagroop (Singh)
Schneider, Oliver

Seguin, Patrick
Sim, Jaime
Smith, Graeme
Strydom, Carin Sunelle
Terblanche, Ockert
Tran, Victor
Turnbull, Shauna
Van Haarten, Timothy
Van Rensburg, Gerhardus
Vargo, Michael
Varughese, Thomas
Vipulananthan, Nirupan
Weisgerber, Graham
Wensveen, Quentin
Woolsey, Adrianna
Zaki, Mahmood

Zaugg, Michael

Self-Assessment Questionnaire

1. What is your opinion about the quality of the educational program?
2. How satisfied are you with the faculty's support?
3. Do you have any suggestions for improvements?

Thank you for your participation.

Dr. Saifee Rashiq
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2020-2021 PUBLICATIONS


12. Khanna AK, Shaw AD, Stapelfeldt WH, Boero IJ, Chen Q, Stevens M, Gregory A, Smischney NJ. Postoperative Hypotension and Adverse Clinical Outcomes in Patients Without Intraoperative


50. Shaw AD, Muthukumaraswamy SD, Saxena N, Sumner RL, Adams NE, Moran RJ, Singh KD. Generative modelling of the thalamo-cortical circuit mechanisms underlying the neurophysiological effects of


2-150 Clinical Sciences Building (CSB)
8440 112 St NW, Edmonton, AB T6G 2G3
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