ANNUAL REPORT
DEPARTMENT OF CRITICAL CARE MEDICINE
2021-22
ANNUAL REPORT
UNIVERSITY OF ALBERTA
<table>
<thead>
<tr>
<th>CONTENTS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DEPARTMENT MESSAGE</td>
<td>3</td>
</tr>
<tr>
<td>OUR SITES</td>
<td>6</td>
</tr>
<tr>
<td>PARTNERSHIPS</td>
<td>7</td>
</tr>
<tr>
<td>LEADERSHIP</td>
<td>8</td>
</tr>
<tr>
<td>AWARDS &amp; RECOGNITION</td>
<td>9</td>
</tr>
<tr>
<td>RESEARCH &amp; INNOVATION</td>
<td>11</td>
</tr>
<tr>
<td>EDUCATION</td>
<td>15</td>
</tr>
<tr>
<td>ULTRASOUND &amp; SIMULATION</td>
<td>19</td>
</tr>
<tr>
<td>APPENDIX</td>
<td>20</td>
</tr>
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The 2021-2022 academic year continued to be heavily influenced by the global activity of the COVID-19 pandemic. Many of us are feeling the fatigue of unrelenting administrative and clinical service demands. We would first like to acknowledge and thank all our faculty for their contributions, perseverance and for the outstanding clinical care provided throughout this turbulent period in our careers. Critical care has undoubtedly played a leading role in navigating through the COVID-19 pandemic. While it is clear that COVID-19 is having a lingering toll on our critical care workforce and our role appeared “polarizing” at times, we should pause to acknowledge the incredible achievements made by our critical care community in the past two years.

As a department, we should also be proud of our having largely preserved our academic mission throughout this period. Despite these challenges, we did not suffer major disruption to our residency training program. This would not have been possible without the dedication, leadership, and massive contributions of our faculty. Similarly, despite early disruptions, the department responded and contributed substantially to the rapidly evolving research enterprise focused on our response to COVID-19.

With each new academic year, comes renewal within the department. We have welcomed many new clinical faculty to the department and we have also witnessed retirement. This year, Dr. Dat Chin, our most senior Professor of Critical Care Medicine, has retired. His clinical and academic contributions to the department, particularly to teaching and education, spans four decades. Dr. Chin was the first intensivist to bridge work in the cardiovascular surgical ICU and with the heart/lung transplantation program at the University of Alberta Hospital. He was a founding intensivist in the E. Garner King Critical Care Unit, later serving as the Medical Director. He also served as the Critical Care Training Program Director and was instrumental on the national stage to earn the field of Critical Care Medicine recognition as a distinct subspeciality within the Royal College of Physicians & Surgeons. Dr. Chin was recognized this year with inaugural Dr. Richard Johnston Distinguished Service Award in Critical Care Medicine and by the unveiling of a new scholarship fund “Dr. Dat Chin Scholarship in Critical Care Medicine” to honor his enduring legacy.

We hope the turbulence may be subsiding and we are looking forward to more “normalcy” in the weeks and months ahead. We hope for less “Zoom” and more “breaking bread” as we re-engage in activities that reinforce the strengths of our department and community.

Dr. Sean M Bagshaw, MD, MSc, FRCPC
Professor and Chair
Faculty of Medicine and Dentistry

Dr. Shelley Duggan, MD, FRCPC
Clinical Professor and Head,
Edmonton Zone, Alberta Health
THE DEPARTMENT OF CRITICAL CARE MEDICINE AND THE UNIVERSITY OF ALBERTA RESPECTFULLY ACKNOWLEDGES THAT WE ARE LOCATED ON TREATY 6 TERRITORY, A TRADITIONAL GATHERING PLACE FOR DIVERSE INDIGENOUS PEOPLES INCLUDING THE CREE, BLACKFOOT, MÉTIS, NAKOTA SIOUX, IRO-QUOIS, DENE, OJIBWAY/ SAULTEAUX/ANISHINAABE, INUIT, AND MANY OTHERS WHOSE HISTORIES, LANGUAGES, AND CULTURES CONTINUE TO INFLUENCE OUR VIBRANT COMMUNITY.
DEPARTMENT PHILOSOPHY

The Department of Critical Care Medicine provides patient care, supports education and training, and facilitates research across the mixed medical/surgical and specialized critical care units across the Edmonton Zone. These critical care units are where the most unstable and seriously ill patients are cared for. They consist of highly trained inter-disciplinary teams, advanced monitoring capabilities and life-support technology. We have integrated the “ICU without walls” concept, where in addition to having a dedicated location in the hospital, we also take the necessary expertise and support to rescue patients with acute deterioration who are at-risk of critical illness and adverse outcomes. As a result, critical care outreach services are now recognized and integrated as a vital component of Critical Care.

TRANSPARENCY & DIVERSITY

The department is committed to ensuring transparency, social accountability and to facilitate diversity for recruitment, promotion and leadership. The department has been working closely to align with the Faculty of Medicine and Dentistry and Alberta Health Services on these processes.

OUR MISSION is to provide exemplary patient and family-centred care of the critically ill today and tomorrow.
OUR SITES

University of Alberta Hospital

E. Garner King General Systems Intensive Care Unit
Unit Type: mixed medical/surgical ICU | No. of Beds: 43
Site Medical Director: Dr. Dennis Djogovic

Edmonton Firefighter Burn Treatment Centre
Unit Type: Comprehensive Burn Unit | No. of Beds: 4
Site Medical Director: Dr. Dennis Djogovic

Neuroscience Intensive Care Unit
Unit Type: Neurosciences ICU | No. of Beds: 15
Site Medical Director: Dr. Dennis Djogovic

Mazankowski Alberta Heart Institute

Unit Type: Cardiac Surgical ICU | No. of Beds: 24
Site Medical Director: Dr. Mohamad Zibdawi

Royal Alexandra Hospital

Unit Type: mixed medical/surgical ICU | No. of Beds: 29
Site Medical Director: Dr. Jonathan Davidow

Grey Nuns Community Hospital

Unit Type: mixed medical/surgical ICU | No. of Beds: 10
Site Medical Director: Dr. Dominic Carney

Misericordia Community Hospital

Unit Type: mixed medical/surgical ICU | No. of Beds: 10
Site Medical Director: Dr. Clint Torok-Both

Sturgeon Community Hospital

Unit Type: mixed medical/surgical ICU | No. of Beds: 5
Site Medical Director: Dr. Oleksa Rewa
PARTNERSHIPS

**Critical Care Strategic Clinical Network™**

The Critical Care Strategic Clinical Network™ (CC SCN) is a community of health care professionals, operational leaders and stakeholders from Alberta’s adult, cardiovascular, neurosciences and pediatric critical care units.

**Scientific Office of the Critical Care Strategic Clinical Network**

The Scientific Office of the Critical Care Strategic Clinical Network was created to lead Alberta Health Services (AHS) in the promotion, adoption and diffusion of evidence-based innovation to drive decision-making in critical care medicine. As researchers and innovators, we lead research and partner with patients and their families, students, researchers and organizations in order to improve the health of Albertans through the development, execution, and implementation of research.

**LOGIC – Linking of Global Intensive Care**

The department, through eCritical Alberta, has collaborated with the Linking of Global Intensive Care (LOGIC) initiative.

## DEPARTMENT LEADERSHIP

<table>
<thead>
<tr>
<th>Name</th>
<th>Position and Responsibilities</th>
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<tbody>
<tr>
<td>Dr. Sean Bagshaw</td>
<td>Scientific Director/Deputy Senior Medical Director, Critical Care Strategic Clinical Network, AHS</td>
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<tr>
<td>Dr. Dominic Carney</td>
<td>Site Medical Director, Grey Nuns Community Hospital ICU</td>
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<tr>
<td>Dr. Lawrence Cheung</td>
<td>Associate Dean, Post-Graduate Medical Education, FoMD, University of Alberta</td>
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<tr>
<td>Dr. Jonathan Davidow</td>
<td>Site Medical Director, Royal Alex Hospital ICU</td>
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<td></td>
<td>Deputy Clinical Department Head, Edmonton Zone</td>
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<tr>
<td>Dr. Dennis Djogovic</td>
<td>Site Medical Director, EG King General Systems Critical Care Unit, University of Alberta Hospital</td>
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<td></td>
<td>Site Medical Director, Leona and Kenneth Biggs and Dr. Peter Allen Neurosciences Intensive Care Unit, University of Alberta Hospital</td>
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<td></td>
<td>Medical Director, HOPE (Human Organ Procurement and Exchange) program</td>
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<tr>
<td>Dr. Noel Gibney</td>
<td>Deputy Facility Medical Director, New Edmonton Hospital Project</td>
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<tr>
<td>Dr. Rachel Khadaroo</td>
<td>Co-Scientific Director, AHS Surgery Strategic Clinical Network</td>
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<td></td>
<td>Co-Physician lead Provincial Prehabilitation Working Group</td>
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<td>Founder and Faculty Mentor/Advisor, Association of Women Surgeons, University of Alberta Chapter</td>
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<tr>
<td>Dr. Erika MacIntyre</td>
<td>Past President, Edmonton Zone Medical Staff Association</td>
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<tr>
<td>Dr. Arabesque Parker</td>
<td>Chair, Transfusion in Trauma working group</td>
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<td>Associate Director of Quality, Royal Alexandra Hospital Critical Care</td>
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<td>Quality Improvement Patient Safety Educational Lead, Department of Critical Care</td>
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<tr>
<td>Dr. Damian Paton-Gay</td>
<td>Trauma Section Chief, Edmonton Zone</td>
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<td>Co-Chair Alberta Trauma Services Core Leadership Team</td>
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<td>Co-Chair National Acute Critical Events Simulation Course</td>
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<tr>
<td>Dr. Oleksa Rewa</td>
<td>Site Medical Director, Sturgeon Community Hospital</td>
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<tr>
<td>Dr. Ella Rokosh</td>
<td>Co-Chair, Neuromuscular Chronic Ventilation Committee</td>
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<td>Medical Informatics lead, Edmonton Zone</td>
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<tr>
<td>Dr. Janek Senaratne</td>
<td>Critical Care Medicine Residency Program Simulations Leader</td>
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<tr>
<td>Dr. Clint Torok-Both</td>
<td>Site Medical Director, Misericordia Hospital</td>
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<tr>
<td>Dr. Derek Townsend</td>
<td>Facility Medical Director - University of Alberta Hospital, Mazankowski Heart Institute, Kaye Medical Clinic</td>
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<tr>
<td>Dr. Mohamad Zibdawi</td>
<td>Site Medical Director, Cardiovascular ICU</td>
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<tr>
<td>Dr. David Zygun</td>
<td>Medical Director, Edmonton Zone</td>
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<td>Acting Associate Chief Medical Officer, Strategic Clinical Networks</td>
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AWARDS AND RECOGNITION

2021-22 INTERNAL AWARDS

Mentor of the Year – Dr. Jonathan Davidow
This annual award recognizes physician members within the department who have shown an outstanding commitment to mentoring, developing, and supporting department educational or research trainees, junior faculty, or staff (AHS or FoMD).

Best Paper of the Year – Matthew Douma
This annual award recognizes physician members within the department for any published peer-reviewed paper (or accepted in press) by a member of the department (faculty must be first or last author; or trainee led paper) within the last calendar year.

Teacher of the Year (Junior) Resident Award – Dr. Vincent Lau
This annual award recognizes physician members who have demonstrated commitment to high quality education for our rotating residents. The recipient of this award is chosen by junior residents rotating through the ICU's at UAH and RAH.

Teacher of the Year CCM (Senior) Resident Award – Dr. Janek Senaratne
This annual award recognizes physician members who have demonstrated commitment to high quality education for our senior critical care residents. The recipient of this award is selected by our CCM trainees.
Dr. Dan Stollery Award for Clinical Excellence - Dr. Dominic Carney
This annual award is designed to acknowledge and recognize a physician within the department whose exceptional contributions to clinical practice and commitment to excellence goes above and beyond the norm.

Dr. Richard Johnston Award for Distinguished Service to Critical Care Medicine - Dr. Dat Chin
This annual award recognizes and acknowledges a physician whose vision, commitment and contributions have furthered the practice, organization, scholarship, and field of critical care medicine over the lifespan of their career.

Humanitarian Award in Critical Care Medicine - Mishaela Houle
This annual award recognizes and acknowledges an individual who has made outstanding contributions to leadership, service and/or scholarship directed to advance the field, practice, and organization of critical care regionally, provincially, nationally, or internationally.

2021-22 EXTERNAL AWARDS

Dr. Sean Bagsahw
Tier I Canada Research Chair in Critical Care Outcomes and System Evaluation

Dr. Janek Senaratne
2021-2022 Mentor of the Year Award – Division of Cardiology, Department of Medicine, UofA

Dr. Rachel Khadaroo
2021-22 Association of Women Surgeons (AWS) Best International Chapter, AWS National Medical Student Committee

Dr. Derek (Rex) Townsend
2021-22 CCPE (Canadian Certified Physician Executive) accreditation
The 2021-2022 Academic Year was another challenging year for the department as we continued to navigate challenges related to the pandemic. However, we continue to participate in and produce high quality research, lead scholarly activities and obtain ongoing research funding.

- Dr. Oleksa Rewa
  Associate Chair, Research and Innovation
The department has been successful in several large scale provincial and national funding opportunities, and has continued to publish manuscripts in high impact peer reviewed journals.

We continued to build on infrastructure previously developed at our 7 ICUs. These include the following sites and associated research leads:

- University of Alberta Hospital General Systems ICU – Dr. Oleksa Rewa
- University of Alberta Hospital Neurosciences ICU – Dr. Jim Kutsogiannis
- Royal Alexandra Hospital ICU – Dr. Jim Kutsogiannis
- Grey Nuns Community Hospital ICU – Dr. Janek Senaratne
- Misericordia Community Hospital ICU – Dr. Erika MacIntyre
- Sturgeon Community Hospital ICU – Dr. Oleksa Rewa
- Mazankowski Heart Institute Cardiovascular ICU – Dr. Sean van Diepen
- Basic/Translational Sciences – Dr. Kimberly Macala

Specifically, the Grey Nuns Community Hospital and Misericordia Community Hospital have been able to build their research infrastructure, with the hiring of dedicated research staff and new participation in several multicenter initiatives.

**DCCM RESEARCH DAY**

Finally, we have again held a combined Pediatric and Adult Critical Care Medicine Research Day on May 18, 2022 with Dr. Fernando Zampieri presenting as a visiting professor on, ‘Baseline fluid use and effect of balanced solutions: a secondary BaSICS analysis.’

This was a virtual event attended by over 50 trainees and faculty across the two departments. In the research competition, Dr. Graham Mah received first place for his work on the COVID SHUNT study, Dr. Lauren Ryan received second place for her work regarding Extracorporeal Life Support in Children and Dr. Matthew Douma received third place for his Quality Improvement Work in Cardiac Arrest Evaluation.

We are looking forward to repeating this event in 2023, and hopefully in person should restrictions permit.
RESEARCH PUBLICATIONS

160 total publications:
18 publications with department faculty as first or senior author
1 publication with trainee as first author
19 publications in high impact journals

Full list of research publications can be found in the Appendix on page 20.

FEATURED PUBLICATION


RESEARCH GRANTS

19 grants total
15 grants with department faculty as PI
Total New Funding: $ 3, 714, 358.63
Total Funding: $ 3, 789, 358.63

Full list of research grants can be found in the Appendix on page 36.

FEATURED RESEARCH GRANT

Investigator: Dr. Oleksa Rewa (PI)
Title: REVIVe: Frailty, Rehabilitation, and Hospitalization Outcomes in Adult and Pediatric Survivors of COVID-19
Funder: CIHR
Funding Year: 2021
Award: $738,000.00
The R.T. Noel Gibney Lecture in Critical Care Medicine

**Dr. Dale Needham** - John Hopkins University School of Medicine  
Title: Coral: The Petal Networks Observational Study  
April 12, 2022

Dr. Dale Needham is a Professor of Medicine, the Medical Director of the Critical Care Physical Medicine and Rehabilitation Program and the Director of the Outcomes After Critical Illness and Surgery (OACIS) Group, at Johns Hopkins University School of Medicine. Dr. Needham received his MD from McMaster University in Hamilton, Canada, and completed residency in internal medicine and fellowship in critical care medicine at the University of Toronto. He obtained his PhD in Clinical Investigation from the Johns Hopkins Bloomberg School of Public Health. Dr. Needham has over 400 peer reviewed publications. His landmark contributions have focused on improving long-term survivorship outcomes after critical illness, including physical, psychological, and quality of life status.

2022 Research Day Keynote Speaker

**Dr. Fernando Zampieri** - University of São Paulo  
Title: Baseline fluid use and effect of balanced solutions: A secondary BaSICS analysis  
May 18, 2021

Dr. Zampieri is a Critical Care Physician, researcher at Academic Research Organization, Albert Einstein Hospital (São Paulo, Brazil), and an Adjunct Assistant Professor at the University of Alberta.
Although the 2021-22 academic year was marred by continuing challenges presented by the COVID-19 pandemic, the department has continued to not only maintain an outstanding educational portfolio but has continued to grow over the past year.

In January the RCPSC CCM program underwent an Internal Review, the first since receiving full accreditation by External Review in 2017. The new format laid out by the RCPSC mandated an in-depth review of each element of the program and required extensive work by the Program Director, Residency Promgram Committee (RPC), and department faculty at large. The program was rewarded for its hard work with a stellar review without a single noted area for improvement (AFI). Despite such a successful review we used the opportunity to ensure we are truly offering the best possible training to our residents.

Ongoing in-person gathering restrictions initially dictated continued online format for educational activities: Academic Half day, Grand Rounds, Journal Club, and even in-training exams. While this ensured that our trainees received an uninterrupted educational experience, we were all relieved to be able to make the transition back to in-person learning. After being forced to engage in remote learning, we are excited to be able to use it to our advantage and make educational activities accessible to residents away on elective rotations. None of this could have been accomplished without incredibly engaged faculty members who continued to prioritize learner education despite a significant increase in clinical workload. This is highlighted by the fact that at no point during any wave of the COVID-19 pandemic were critical care subspecialty residents redeployed from other rotations to provide clinical service in the ICU.

June 30, 2022 marked the successful completion of our second cohort of residents training in the Competence by Design framework to which we transitioned in 2018. This concludes a successful transition to the new platform which has also helped us bolster our educational activities in areas such as crisis resource management and high-fidelity simulation. Based on trainee feedback we also bolstered our academic program with our first full ventilation simulation day and full day renal replacement therapy educational symposium.

The last year has also seen growth in our post-residency fellowship programs. We saw our re-imagined Cardiology ICU fellowship hit the ground running, recruiting its first fellow in over 5 years. The success of this updated fellowship is apparent with fellows already registered for the next two academic years. We witnessed continued solidification of our Critical Care Ultrasound fellowship, successfully training our fourth candidate who has accepted a position at hospitals in the Edmonton zone where he will continue to drive ultrasound-related education in the department. We also continued our training program in Cardiovascular ICU, graduating a fellow for the fifth straight year since initiating the program.

Our faculty were recognized for teaching both within and outside of our department. Three quarters of our teaching faculty at our two main teaching sites (University of Alberta and Royal Alexandra Hospitals) were nominated for departmental teaching awards, highlighting the broad impact of our clinician teachers.
AWARDS WON BY MEMBERS INCLUDE:

Critical Care Medicine Rotating Resident Teacher of the Year award
- Dr. Vincent Lau. Selected by rotating residents and awarded to a critical care physician in recognition of outstanding contribution to resident education.

Critical Care Medicine Senior Resident Teacher of the Year award
- Dr. Janek Senaratne. Selected by senior residents and awarded to a critical care physician in recognition of outstanding contribution to senior resident education.

Off-service Rotation of the Year award
- University of Alberta Hospital E. Garner King ICU. Selected by residents in the Family Medicine-Emergency Medicine program to recognize the off-service rotation with the highest educational value.

2022 Canadian Federation of Medical Students (CFMS) Culture Changers Campaign
- Dr. Phillip Gregoire. Nominated as a champion by a medical student for his positive impact on the training environment.
The Department Trauma Club was running again for 2021-22 as Dr. Djogovic passed the oversight of the club to Dr. Lau.

Lectures via Zoom provided by Drs. Dennis Djogovic and Vincent Lau included:
(1) Orientation to the ICU for medical students
(2) Introduction to toxicology and trauma

Other events included:
(1) An intensivist panel, including adult and pediatric intensivists, tertiary alongside community physicians, academic and clinical faculty (researchers, administrators, educators), showcasing our diversity and inclusiveness within our department.

(2) An in-person hands-on skills night, teaching medical students about vascular access, point-of-care ultrasound and airway management.

Thanks to all the faculty and the medical students who made this year a success. We are looking to build on this success for next year.
2021-22 EDUCATION EVENTS

Academic Half Day (including simulations)
Covering 70 topics over the course of the academic year

Other Activities:
- CCM Year One Orientation - July 2
- N-ACES Course - July 8-9
- Simulations - July 14, 21 November 10 February 16 and May 4
- BLS/ACLS - Course July 17
- CRUS West Course - Aug 12-13
- Resident Wellness Day - Aug 25 and Feb 23
- CaRMS - Sept 16
- Royal College of Physicians and Surgeons Critical Care Medicine Exam - Sep 23-24
- Journal Club - Sept 14, Dec 7, Feb 22 and May 24
- International Applicant Interviews - Oct 9
- Critical Care Canada Forum - Dec 5-8
- In Training Exam - Dec 5 and June 1
- ASICP - Jan 22
- Multidisciplinary Critical Care Knowledge Assessment Program - March 9
- Objective Structured clinical Examination - May 11
- Research Day - May 18
ULTRASOUND
AND SIMULATION

Faculty Education
2021-2022 was a busy academic year for the Critical Care Ultrasound (CCUS) program. In fall 2021, we celebrated two graduates from the CCUS fellowship program (2020-2021) who successfully completed their Examination of Special Competence in Critical Care Echocardiography. Both graduates have went on to fulfill attending roles in critical care in the Edmonton Zone. Moreover, we welcomed a new CCUS fellow, Laz Milovanovic, to the program in 2021.

Next, much work was done to move online CCUS education to a high-quality learning management system through www.AlbertaSono.ca. This year also saw the education of 20 rotators through the acute care ultrasound rotation and continuation of the monthly ABSono Ultrasound rounds. Finally, we hit a key milestone in CCUS education: we are delighted to announce that every hospital with an intensive care unit in the Edmonton Zone has at least 1-2 ICU physicians trained in CCUS, a huge boost to ensuring access to this expertise.

Research
In 2021, we saw the initiation and completion of several research projects. The Covid-Shunt prospective observational trial, conducted across the Edmonton Zone, saw the participation of over 200 patients in a first-of-its kind point-of-care study for shunt interrogation, led by Dr. Vincent Lau. This will be published in tandem with a systematic review examining the prevalence of shunt in hypoxic respiratory failure. We also saw the publication of a national survey on curriculum development and implementation of CCUS across Canada, led by Dr. Jocelyn Slemko. Finally, the General System ICU became a participant in an international registry of trans-esophageal echocardiography in acute care.

Canadian Resuscitative Ultrasound Course (West)
In 2021, we restarted in-person hosting of the Canadian Resuscitative Ultrasound Course (CRUS) West. A brief hiatus due to Covid-19, we welcomed 20 faculty and residents to Western Canada's biggest course in acute care ultrasound training. The course received outstanding reviews and will be held again in 2022.
APPENDIX

RESEARCH PUBLICATIONS

Publication Summary:
160 total publications
18 publications with department faculty as first or senior author
2 publications with trainee as first author (italics)

Publications in High Impact Journals
5 publications in BMJ [IF 93]
7 publications in Intensive Care Medicine [IF 40]
4 publications in JAMA [IF 157]
3 publications in NEJM [IF 176]

COVID-19 Publications highlighted with a


19. PMID: 35045989; PMCID: PMC8863204.


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<th>INVESTIGATOR</th>
<th>FUNDER</th>
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<tr>
<td>Bagshaw, Sean (PI)</td>
<td>Alberta Health Services</td>
<td>Critical Care SCN Studentship</td>
<td>2021 Nov</td>
<td>2022 Dec</td>
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<td>Critical Care Strategic Clinical Network (CC SCN) - Knowledge Translation Strategy</td>
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<td>Bagshaw, Sean (PI)</td>
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<td>Canada Research Chairs</td>
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<td>2028 Sept</td>
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<td>Bagshaw, Sean (PI)</td>
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<td>Canada Research Chair (Tier 1)</td>
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<td>Jacka, Michael (PI)</td>
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<td>HIP Fracture Accelerated Surgical Care and Treatment trACK) 2 (HIP ATTACK-2)</td>
<td>2022 Mar</td>
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<td>Karvellas, Constantine (PI)</td>
<td>European Foundation for the Study of Chronic Liver Failure</td>
<td>A Prospective Non-Interventional and Observational Study Aimed at Understanding the Role of Liver Transplantation in Patients with Severe ACLF (CHANCE Study)</td>
<td>2022 May</td>
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<td>Khadaroo, Rachel (PI)</td>
<td>Cultural and Scientific Services</td>
<td>Novel biomarkers to diagnose acute mesenteric ischemia</td>
<td>2021</td>
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<td>$13,398.00</td>
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<td>French Embassy in Canada, France</td>
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<td>Canada Research Fund</td>
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<td>Khadaroo, Rachel (Co-PI)</td>
<td>BGS Specialist Training Registrar</td>
<td>A multicentre survey to determine the ability and attitudes</td>
<td>2021</td>
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<td>surgical acute care settings</td>
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<td>Lau, Vincent (PI)</td>
<td>EuroQol Research Foundation</td>
<td>Health-Related Quality-of-Life &amp; Health-Utility Integration in Critical</td>
<td>2021 Sept</td>
<td>2023 Aug</td>
<td>$56,913.02</td>
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<td>Care: EQ-5D-5L Validation (QUICC)</td>
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<td>Lau, Vincent (PI)</td>
<td>CIHR</td>
<td>A Multi-centre, Adaptive, Randomized, Open-label, Controlled</td>
<td>2022 Apr</td>
<td>2022 Dec</td>
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<td>Clinical Trial of the Safety and Efficacy of Investigational</td>
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<td>Therapeutics for the Treatment of COVID-19 in Hospitalized Patients</td>
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<td>Parker, Arabesque (PI)</td>
<td>Choosing Wisely AB</td>
<td>Choosing Wisely: Reducing the Overuse of Sedatives and Analgesics in</td>
<td>2021 Jun</td>
<td>2023 Jun</td>
<td>$75,000.00</td>
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<td></td>
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<td>Critical Care</td>
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<td>Rewa, Oleksa (PI)</td>
<td>CIHR</td>
<td>REVIVE: Frailty, Rehabilitation, and Hospitalization Outcomes in</td>
<td>2021</td>
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<td>Adult and Pediatric Survivors of COVID-19</td>
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<td>Rewa, Oleksa (PI)</td>
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<td>Rewa, Oleksa (Co-PI)</td>
<td>CIHR</td>
<td>Feeding EPA and DHA Improves Clinical Symptoms Associated with COVID-19 Infection</td>
<td>2021</td>
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<td>Rewa, Oleksa (Co-PI)</td>
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<td>Choosing Wisely: Reducing the Overuse of Sedatives and Analgesics in Critical Care</td>
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<td>Rewa, Oleksa (PI)</td>
<td>Queens University</td>
<td>Furosemide as Supportive Therapy for COVID-19 (FaST for COVID)</td>
<td>2021 Oct</td>
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<td>$5,297.61</td>
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<tr>
<td>Senaratne, Janek (PI)</td>
<td>Sunnybrook Research Institute</td>
<td>Canadian Critical Care Trials Group Network of Clinical Trial Networks Research Grant</td>
<td>2022 Mar</td>
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<td>$35,000.00</td>
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<td>van Diepen, Sean (PI)</td>
<td>Canadian Vigour Centre</td>
<td>De-Adoption beta-Blockers in patients with stable ischemic heart disease without REduced LV ejection fraction, ongoing Ischemia, or Arrhythmias: a pragmatic randomized trial: The AβBREVIATE Trial</td>
<td>2021 Jul</td>
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<td>$50,000.00</td>
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**TOTAL** $3,789,358.63
DEPARTMENT MEMBERS

RETIRÉ FROM THE DEPARTMENT IN 2021-22
Chin, Dat Professor
Murtha, William Associate Clinical Professor

NEW TO THE DEPARTMENT IN 2021-22
Zampieri, Fernando Adjunct Assistant Professor

ACADEMIC MEMBERS

ASSISTANT PROFESSOR

Buchanan, Brian Critical Care Medicine
Chowdhury, Raiyan Critical Care Medicine
Lau, Vincent Critical Care Medicine
Macala, Kim Critical Care Medicine
Rewa, Oleksa Critical Care Medicine

ASSOCIATE PROFESSOR

Jacka, Michael Critical Care Medicine
van Diepen, Sean Critical Care Medicine

PROFESSOR

Bagshaw, Sean Critical Care Medicine
Chin, Wu Critical Care Medicine
Sligl, Wendy Critical Care Medicine
Brindley, Peter Critical Care Medicine
Kutsogiannis, Demetrios (Jim) Critical Care Medicine
Zygun, David Critical Care Medicine

ADJUNCT ASSISTANT PROFESSOR

Bowker, Samantha Critical Care Medicine
Douma, Matthew Critical Care Medicine
Hall, Adam Critical Care Medicine
Kim, Michael Joon Surgery
Madzimure, Tafirenyika Critical Care Medicine
Zampieri, Fernando Critical Care Medicine

ADJUNCT ASSOCIATE PROFESSOR

Cheung, Lawrence Medicine
Karvellas, Constantine (Dean) Medicine
Widder, Sandy Surgery

ADJUNCT PROFESSOR

Khadaroo, Rachel Surgery
Tredget, Edward Surgery
CLINICAL MEMBERS

ASSISTANT CLINICAL PROFESSOR

Alherbish, Aws Critical Care Medicine
Carney, Dominic Critical Care Medicine
Henry, Monica Critical Care Medicine
Hudson, Darren Critical Care Medicine
Liu, Allen Critical Care Medicine
Luksun, Warren Critical Care Medicine
MacIntyre, Erika Critical Care Medicine
Marcushamer, Samuel Critical Care Medicine
Markland, Darren Critical Care Medicine
Parker, Arabesque Critical Care Medicine
Rokosh, Ella Critical Care Medicine
Romanovsky, Adam Critical Care Medicine
Skoretz, Stacey Critical Care Medicine
Suen, Gabriel Critical Care Medicine
Torok-Both, Clinton Critical Care Medicine
Zibdawi, Mohamad Critical Care Medicine

ASSOCIATE CLINICAL PROFESSOR

Davidow, Jonathan Critical Care Medicine
Heule, Mark Critical Care Medicine
Murtha, William Critical Care Medicine
Singh, Gurmeet Critical Care Medicine
Sobey, Alan Critical Care Medicine

CLINICAL PROFESSOR

Duggan, Shelley Critical Care Medicine
Djogovic, Dennis Critical Care Medicine
Johnston, Curtis Critical Care Medicine
Johnston, Richard Critical Care Medicine
Meier, Michael Critical Care Medicine
Stollery, Daniel Critical Care Medicine
Townsend, Derek Critical Care Medicine

SECONDARY CLINICAL MEMBERS

CLINICAL LECTURER

Russell, Michael Medicine

ASSISTANT CLINICAL PROFESSOR

Matheson, Douglas Critical Care Medicine
Norris, Sean Critical Care Medicine
Paton-Gay, John Damian Surgery
Senaratne, Janek Surgery

ASSOCIATE CLINICAL PROFESSOR

Simmonds, Matthew Anesthesiology and Pain Medicine

CLINICAL PROFESSOR

Gibson, Neil Medicine
Stephens, Mary Surgery

DEPARTMENT PERSONNEL

Lisa Cruywels
Academic Department Manager

DEPARTMENT OFFICE (UAH)

Lorraine Nowak
Department Admin Assistant to the Chair
Susan Biesel
HR/Financial Assistant
Rosanne Prinsen
Department Communications Coordinator
Ana Wigger
Medical Education Program Assistant

RESEARCH OFFICE

Nadia Baig
Research Manager
Lily Guan
Research Assistant
Teresa Lawrence
Research Admin
Dawn Opgenorth
Project Manager
CONFERENCES

ASICP/CC SCN Research Symposium
January 22, 2022

The annual ASICP/CC SCN Research Symposium was held virtually, due to COVID, on January 22, 2022. The goal of the Alberta Society of Intensive Care Physicians (ASICP) research symposium is to build research capacity for scientific work among early career clinical and research trainees in the Alberta critical care medicine community.

This year, there were 10 very high-quality oral abstract presentations from the University of Alberta and University of Calgary. We look forward to hosting this Annual Research Symposium once again in person at the Post Hotel in beautiful Lake Louise in January 2023.

CRIT/ER - Critical Care in the Emergency Room
October 2-3, 2021

If you work in the ER on a full time, part time or casual basis and find yourself called upon to treat the sickest of patients at a moment’s notice, then this CRIT/ER conference is for you! Join Directors Dennis Djogovic and Matt Inwood and the University of Alberta, Department of Critical Care Medicine, as they present a weekend of medical education with a healthy dose of mountain air!

The rapid fire lectures with heavy “real life” clinical emphasis make for an enjoyable and entertaining learning experience.

2021 Conference Speakers:
• Dr. Janek Senaratne - Cardiologist, Intensivist, Grey Nuns Hospital, UofA Hospital
• Dr. Dominic Carney- Pulmonologist, Intensivist, Grey Nuns Hospital
• Dr. Shaun Cowan - Paramedic, Senior Instructor CTOMS, Chief Resident General Surgery, UofA
• Dr. Matthew Inwood - UofA ED, Trauma Team Leader, STARS Director Grande Prairie
• Dr. Dennis Djogovic - UofA ED, Trauma Team Leader, Intensivist
Every critical care unit is staffed with a multi-disciplinary team of nurses, respiratory therapists, physicians and pharmacists. Each individual has taken specialized training to care for critically ill patients and to work as part of this team.

The Department is part of the Faculty of Medicine at the University of Alberta. We are committed to providing excellence in patient care, research and education.

For those interested in continuing their Critical Care Medicine training into specialty areas we offer fellowship training opportunities in both clinical and research environments.

Our faculty members are divided by their academic appointments with the University. Our faculty are located throughout the Edmonton area in order to deliver the very best patient care to the city and its surrounding areas.

Our program offers trainees a unique and comprehensive experience, preparing you not only to be excellent clinicians, but leaders in the field of Critical Care Medicine.
TWITTER

Total # of Tweets

58

Total # Profile Visits
Number of times users visited our profile page

20,357

Total # New followers

177

Total # of Impressions
A total tally of all the times tweets have been seen

54,735
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<tr>
<td>Sept 7th</td>
<td>Dr. Noel Gibney Dr. Sean Bagshaw</td>
<td>Pandemic COVID-19 Public Health Measures and Reduction in Critical Care Utilization/Health Advocacy in a Time of Chaos</td>
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<td>Sept 28th</td>
<td>Dr. Peter Brindley</td>
<td>Culture change: A 12 step program??</td>
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<tr>
<td>Oct 5th</td>
<td>Dr. Naheed Rajabali</td>
<td>Perioperative management strategies in a heterogenous critical care patient demographic: Tailoring care across the fit and frail spectrum</td>
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<td>Oct 12th</td>
<td>Dr. Vincent Lau</td>
<td>Health-Related Quality-of-Life Measurements in Critical Care Research: Validation of EQ-5D Patient &amp; Proxy Tools</td>
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<td>Oct 26th</td>
<td>Dr. Dean Karvellas</td>
<td>Current evidence for extracorporeal liver support in acute and acute on chronic liver failure</td>
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<td>Nov 2nd</td>
<td>Dr. Shelley Duggan</td>
<td>Leadership Lecture: Increasing Diversity in Critical Care</td>
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<td>Nov 9th</td>
<td>Dr. Lynn Jacoby</td>
<td>MIS-C and MIS-A: An Overview</td>
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<td>Nov 16th</td>
<td>Dr. Phillip Gregoire</td>
<td>Climate Change and the Future of ICU</td>
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<td>Nov 23rd</td>
<td>Dr. Ayush Lacoul</td>
<td>Hemophagocytic Lymphohistiocytosis (HLH) : A diagnostic dilemma</td>
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<td>Nov 30th</td>
<td>Dr. Philip Gregoire, Dr. Nicholas Quigley, Dr. Sanam Verma</td>
<td>Quality Rounds</td>
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<tr>
<td>Dec 14th</td>
<td>Dr. Madeleine Bohrer</td>
<td>Transport of Critically Ill Children</td>
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<td>Jan 4th</td>
<td>Dr. Jocelyn Slemko</td>
<td>Choosing Wisely: Reducing the Use of Sedatives and Analgesics in Critical Care</td>
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<td>Jan 11th</td>
<td>Dr. Hameid Alenazy</td>
<td>ECMO for COVID-19</td>
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<tr>
<td>Jan 25th</td>
<td>Dr. Curtis Johnston</td>
<td>Leadership Lecture: Anti-Racism in Alberta Healthcare</td>
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<tr>
<td>Feb 1st</td>
<td>Dr. Oleksa Rewa</td>
<td>The Science of Implementing Evidence into Practice</td>
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<td>Feb 8th</td>
<td>Dr. Brian Buchanan</td>
<td>Beyond conjecture - How TEE can resolve the unknowable</td>
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<tr>
<td>Mar 1st</td>
<td>Dr. Janek Senaratne</td>
<td>Shock teams: heart failure to cardiogenic shock to MCS</td>
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<td>Mar 8th</td>
<td>Dr. Rachel Khadaroo</td>
<td>Can Elder-friendly Care Improve ICU Survival?</td>
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<td>Mar 22nd</td>
<td>Dr Mark Sanderson</td>
<td>Substance use disorders: ICU Management</td>
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<td>Apr 5th</td>
<td>Dr. Claire McNiven</td>
<td>ECPR: Adults vs. Pediatrics</td>
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<td>Apr 12th</td>
<td>Dr. Dale Needham</td>
<td>Post-Intensive Care Syndrome (PICS): Understanding the Long-Term Complications After ICU</td>
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<td>Apr 19th</td>
<td>D. Sanam Verma</td>
<td>Post-stroke cardiovascular complications and neurogenic cardiac injury</td>
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<td>Apr 26th</td>
<td>Dr. Graham Mah</td>
<td>Reflections on Critical Care in the “Post COVID” Era</td>
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<td>May 3rd</td>
<td>Dr. Thomas Roston</td>
<td>Beyond ACLS: ICU Considerations after Unexplained Sudden Cardiac Arrest in the Young</td>
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<td>May 10th</td>
<td>Dr. Brittany Kula, Dr. Mark Sanderson, Dr. Sanam Verma</td>
<td>Quality Rounds</td>
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<td>May 31st</td>
<td>Dr. Nicholas Quigley</td>
<td>Death and dying in the ICU</td>
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<td>June 7th</td>
<td>Dr. Brittany Kula</td>
<td>From contaminant to CAPA and in between: Aspergillus in the ICU</td>
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<td>June 14th</td>
<td>Dr. Lazar Milovanovic</td>
<td>Looking in the mirror - post-intensive care syndrome in Edmonton</td>
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