



Dr. Sean M. Bagshaw

Department of Critical Care Medicine
Faculty of Medicine and Dentistry
College of Health Sciences
University of Alberta

March 16, 2022

A handwritten signature in black ink, appearing to read "S. Bagshaw".

CURRICULUM VITAE

BIOGRAPHICAL DATA

Academic Rank:	Professor and Chair	
Clinical Rank:	Intensivist	
Department:	Department of Critical Care Medicine	
Faculty:	Medicine and Dentistry	
Institution:	University of Alberta	
Address:	Department of Critical Care Medicine, University of Alberta Hospital, 2-124E Clinical Sciences Building, 8440-122 Street, Edmonton, Alberta T6G2B7, Canada	
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Website:	https://www.ualberta.ca/medicine/about/people/Sean-Bagshaw	
Birth Place:	Canada	
Citizenship:	Canadian	

EDUCATION

2008-2008 **Visiting Fellow** – Department of Nephrology, Dialysis and Transplantation, St. Bortolo Hospital, Vicenza, Italy (Supervisor – Prof Claudio Ronco)

2005-2007 **Post-Doctoral Fellowship** – Department of Intensive Care Medicine, Austin Hospital, Melbourne, Australia (Supervisor – Prof Rinaldo Bellomo)

2003-2005 **Master of Science (Epidemiology)**, Department of Community Health Sciences, University of Calgary, Calgary, Canada (Supervisor – Dr. Kevin Laupland)

2003-2005 **Resident**, Department of Critical Care Medicine, University of Calgary, Calgary, Canada

2000-2003 **Resident**, Division of Internal Medicine, Department of Medicine, University of Calgary, Calgary, Canada

1997-2000 **Doctor of Medicine**, Faculty of Medicine, University of Calgary, Calgary, Canada

1992-1996 **Honors Bachelor of Arts (Kinesiology)** - Dean's Honor List with Distinction, The University of Western Ontario, London, Canada

ACADEMIC APPOINTMENT

- 2018 – **Professor**, Department of Critical Care Medicine, University of Alberta, Edmonton, Canada
- 2018 – **Professor (Adjunct)**, Division of General Internal Medicine, Department of Medicine, University of Alberta, Edmonton, Canada
- 2018 – **Professor (Adjunct)**, School of Public Health, University of Alberta, Edmonton, Canada
- 2013 –2018 **Associate Professor (Adjunct)**, Division of General Internal Medicine, Department of Medicine, University of Alberta, Edmonton, Canada
- 2013 –2018 **Associate Professor (Adjunct)**, School of Public Health, University of Alberta, Edmonton, Canada
- 2012 –2018 **Associate Professor**, Department of Critical Care Medicine, Faculty of Medicine and Dentistry, University of Alberta, Edmonton, Canada
- 2008 – **Faculty**, Epidemiology and Research Coordinating Centre (EPICORE), Faculty of Medicine and Dentistry, University of Alberta, Edmonton, Canada
- 2010 – 2012 **Assistant Professor (Adjunct)**, School of Public Health, University of Alberta, Edmonton, Canada
- 2007 – 2012 **Assistant Professor**, Division of Critical Care Medicine, Faculty of Medicine and Dentistry, University of Alberta, Edmonton, Canada

LICENSURE AND CERTIFICATION

- 2007 – Licensure (Independent Practice), College of Physicians and Surgeons of Alberta
- 2005 – Fellow, Royal College of Physicians and Surgeons of Canada (Critical Care Medicine)
- 2004 – Fellow, Royal College of Physicians and Surgeons of Canada (Internal Medicine)
- 2000 – Licentiate of the Medical Council of Canada
- 2004 – 2014 Fellow, American Board of Internal Medicine
- 2005 – 2007 Licensure (Educational), College of Physicians and Surgeons of Alberta
- 2005 – 2007 Licensure, Medical Practitioners Board of Victoria, Australia
- 2007 – 2008 Licensure, College of Physicians and Surgeons of Ontario

PROFESSIONAL ORGANIZATIONS

- 2016 – European Society of Intensive Care Medicine
- 2008 – Member of the Canadian Critical Care Society (CCCS)
- 2007 – Member of the Society of Critical Care Medicine (SCCM)
- 2003 – Member of the Canadian Critical Care Trials Group
- 1997 – Member of the Alberta Medical Association

- 1997 – Member of the Canadian Medical Association
2007 – 2015 Member of the Canadian Intensive Care Foundation (CICF)
2007 – 2010 Member of the Acute Kidney Injury Network (AKIN)
2005 – 2007 Member of the Australia and New Zealand Intensive Care Society (ANZICS)

EMPLOYMENT HISTORY

- 2020 – Deputy Senior Medical Director, Critical Care Strategic Clinical Network, Alberta Health Services, Alberta, Canada
- 2018 – Chair, Department of Critical Care Medicine, Faculty of Medicine and Dentistry, University of Alberta, Edmonton, Canada
- 2018 – Scientific Director, Critical Care Strategic Clinical Network, Alberta Health Services, Alberta, Canada
- 2017 – 2018 Chair (Interim), Department of Critical Care Medicine, Faculty of Medicine and Dentistry, University of Alberta, Edmonton, Canada
- 2011 – Staff Intensivist, Cardiovascular Surgical Intensive Care Unit, Mazankowski Alberta Heart Institute, Department of Critical Care Medicine, University of Alberta, Edmonton, Canada
- 2009 – 2019 Director of Research and Innovation, Department of Critical Care Medicine, Faculty of Medicine and Dentistry, University of Alberta, Edmonton, Canada
- 2007 – Staff Intensivist, General Systems Intensive Care Unit, Department of Critical Care Medicine, University of Alberta, Edmonton, Canada
- 2005 – 2007 Clinical/Research Fellow, Department of Intensive Care Medicine, Austin Hospital, Melbourne, Australia
- 2003 – 2005 Critical Care Medicine Physician Extender, Department of Critical Care Medicine, Calgary Health Region, Calgary, Canada
- 2003 – 2005 Critical Care Medicine Resident, Department of Critical Care Medicine, University of Calgary, Calgary, Alberta
- 2000 – 2003 Internal Medicine Resident, Division of Internal Medicine, Department of Medicine, University of Calgary, Calgary, Alberta

SCHOLARLY AND PROFESSIONAL ACTIVITIES

Associate Editor

- 2020 – *Critical Care*

Editorial Boards

- 2018 – *Intensive Care Medicine*

2018 – *Journal of Critical Care*
 2015 – *Blood Purification*
 2012 – *Critical Care*
 2016 – 2020 *Kidney International Reports*
 2012 – 2014 *Faculty of 1000*
 2007 – 2014 *Open Critical Care Medicine Journal*

Guest Editorships

Critical Care Clinics (Fluids Section) – May 2018
 Current Opinion in Critical Care (Renal Section) - December 2015

Grant Peer Review Committee Membership

CIHR – COVID-19 Rapid Research Competition (2020)
 CIHR – Project Grant Scheme (2016, 2017, 2018)
 CIHR – Foundation Scheme Committee (2015, 2016)
 NCE – Canadian Frailty Network (CFN) (2014, 2015, 2016, 2017, 2018)
 CIHR – Health Services Evaluation & Interventions Research (2011, 2013, 2014)
 Women’s and Children’s Health Research Institute (2013)
 University of Alberta Hospital Foundation Medical Research Competition (2012)

Grant Peer Review

CIHR – College of Reviewers (2015 – current)
 Inter-Departmental Division of Critical Care Medicine, University of Toronto (2018)
 Canada Research Chairs (2017, 2018)
 Health Research Council of New Zealand (2015)
 Australian and New Zealand College of Anaesthetists (Australia) (2012)
 Chief Scientist Office Project Grant (Scotland) (2012)
 Wily Gepts Research Foundation (Belgium) (2011)
 Physician Services Incorporated (PSI) Foundation (Ontario) (2009)
 MRC Health Services Research Collaboration (UK) (2009)
 Wellcome Trust (UK) (2009)
 Heart and Stroke Foundation of Canada (2004, 2006, 2008)

Journal Peer-Review (Ad Hoc) (44)

General Medical Journals: Nature Medicine; New England Journal of Medicine (NEJM); Journal of the American Medical Association (JAMA); Lancet; British Medical Journal (BMJ); BMJ Open; Canadian Medical Association Journal (CMAJ); BMC Medicine; BMJ Open

Critical Care Journals: American Journal of Respiratory and Critical Care Medicine; Critical Care Medicine; Intensive Care Medicine; Critical Care; Journal of Critical Care; Critical Care and Resuscitation; Annals of the American Thoracic Society (AATS)

Nephrology Journals: Journal of the American Society of Nephrology (JASN); Kidney International; Kidney International Reports; Clinical Journal of the American Society of Nephrology (CJASN); American Journal of Kidney Diseases (AJKD); Blood Purification; Cochrane Renal Group; International Journal of Artificial Organs (IJAO); International Journal of Nephrology; Nephron Clinical Practice; Nephrology Dialysis Transplantation (NDT); Nephron; Pediatric Nephrology; BMC Nephrology; Pediatric Nephrology

Cardiovascular Journals: Circulation; Journal of the American College of Cardiology (JACC); Annals Thoracic Surgery; Canadian Journal Cardiology

Internal Medicine Journals: Archives of Internal Medicine

Miscellaneous: Canadian Journal of Anesthesia; International Journal of Infectious Diseases; Liver Transplantation; QJM; Therapy; Trials; Systematic Reviews

International Collaboration/Working Groups

- 2022 Faculty (Work Group Chair), *Acute Disease Quality Initiative (ADQI) XXV Meeting – Digital Health and AKI*, (San Diego, USA)
- 2021 Faculty (Work Group Chair), *Acute Disease Quality Initiative (ADQI) XXIV Meeting – Pediatric AKI*, (Napa, USA)
- 2019 Faculty, *Joint Acute Disease Quality Initiative (ADQI) XXV & Perioperative Quality Initiative (POQI) Meeting – Perioperative AKI*, (Cambridge, UK)
- 2019 Faculty, *Kidney Disease Improving Global Outcomes (KDIGO) Controversies Conference on Acute Kidney Injury*, (Rome, Italy)
- 2018 Faculty (Work Group Chair), *Acute Disease Quality Initiative (ADQI) XXII Meeting – Quality in AKI and Acute RRT*, (San Diego, USA)
- 2018 Faculty (Work Group Co-Chair), *Acute Disease Quality Initiative (ADQI) XXI Meeting – Kidney Lung Interactions*, (Innsbruck, Austria)
- 2016 Faculty (Work Group Chair), *Acute Disease Quality Initiative (ADQI) XVI Meeting – Precision CRRT*, (Asiago, Italy)
- 2016 Faculty, *Roundtable on Pragmatic trials in AKI (AKI and CRRT 2016, San Diego, USA)*
- 2015 Faculty, *Acute Disease Quality Initiative (ADQI) XVI Meeting – Kidney Recovery*, (San Diego, USA)
- 2015 Chair, *Acute Disease Quality Initiative (ADQI) XV Meeting – AKI in the Era of Big Data*, (Banff, Canada)
- 2015 Faculty, *Roundtable on AKI as a Quality Initiative (AKI and CRRT 2015, San Diego, USA)*
- 2013 Faculty, *Acute Dialysis Quality Initiative (ADQI) XII Meeting – Fluid Therapy*, (London, UK)
- 2012 Faculty (Work Group Chair), *Acute Dialysis Quality Initiative (ADQI) XI Meeting – Cardio-Renal Pathophysiology*, (Venice, Italy)
- 2012 Faculty, *Consensus Round Table Conference on Fluid Resuscitation (ISICEM, Brussels, Belgium)*
- 2011 Faculty, *Acute Dialysis Quality Initiative (ADQI) X Meeting – Kidney Biomarkers*, (Dublin, Ireland)
- 2011 Faculty, *Consensus Round Table Conference on Acute Kidney Injury (ISICEM, Brussels, Belgium)*
- 2008 Faculty (Work Group Chair), *Acute Dialysis Quality Initiative (ADQI) VII Meeting – Cardio-Renal Interactions*, (Venice, Italy)

Data Safety Monitoring Committee

- 2020 – I-SPY-COVID Trial (see: <https://clinicaltrials.gov/ct2/show/NCT04488081>)
PI: Laura Esserman, Carolyn Calfee, Kathleen Liu
Sponsor: NIH (US)
Role: Committee Member.
- 2020 – A randomised, double-blind, placebo-controlled trial of erythropoietin alfa versus placebo in mechanically ventilated critically ill patients following traumatic injury (EPO-TRAUMA) (see:

<https://anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=12619001632189>)

PI: Craig French, Alistair Nichol

Sponsor: Australia New Zealand Intensive Care Society Clinical Trials Group

Role: Committee Chair.

2016 – 2020 A Phase 2 Safety and Efficacy of a Selective Cytopheretic Device (SCD) in Critically Ill Children.

PI: Stuart Goldstein

Sponsor: CytoPherx Inc.

Role: Committee Member.

2014 – 2017 A Phase 3, placebo-controlled, randomized, double-blind, multi-center study of LJPC-501 in patients with catecholamine-resistant hypotension (CRH) (LJ501-CRH01) (see: <https://clinicaltrials.gov/ct2/show/NCT02338843>)³⁸

PI: Lahkmir Chawla

Sponsor: La Jolla Pharmaceutical Co.

Role: Committee Member.

2011 – 2014 Management of refeeding syndrome in critical illness: a multicentre randomized controlled trial (NHMRC Application ID 632615)³⁹

PI: Gordon Doig

Sponsor: Australia New Zealand Intensive Care Society Clinical Trials Group

Role: Committee Chair.

Professional Development

2022 *Indigenous Canada* – MOOC, Faculty of Native Studies, University of Alberta

2022 *Anti-Racism Tools and Thoughts* – Faculty of Medicine and Dentistry, University of Alberta

2021 *Crucial Conversations* – Academic leadership, University of Alberta

2018 *Gold College* – Academic leadership development program, University of Alberta

2017 Institute for Healthcare Improvement – *Open School*

2012 Physician Management Institute (PMI) – *Engaging Others*

HONORS AND DISTINCTIONS

2021 Best Paper of the Year, Department of Critical Care Medicine, Faculty of Medicine and Dentistry, University of Alberta

2020 Best Paper of the Year, Department of Critical Care Medicine, Faculty of Medicine and Dentistry, University of Alberta

2019 Best Safety and Quality Paper, 2019 World Congress of Intensive Care Medicine, Melbourne, Australia

2019 Researcher of the Year, Edmonton Zone Medical Staff Association

2018 Clinical Award for Excellence in Mentoring (Tier II), Faculty of Medicine and Dentistry, University of Alberta

2017 Mentor of the Year Award, Department of Critical Care Medicine, Faculty of Medicine and Dentistry, University of Alberta

2017 University of Alberta Award for Outstanding Mentorship in Undergraduate Research and Creative Activities (Honorable Mention)

- 2016 Deborah J. Cook Mentorship Award (Nomination), Canadian Critical Care Trials Group
- 2016 International “Vicenza” Award for Critical Care Nephrology, International Renal Research Institute, Vicenza, Italy
- 2014 Australia New Zealand Intensive Care Society (ANZICS) Global Rising Star Award
- 2012 Presidents Excellence Awards (Finalist), Alberta Health Services
- 2011 Canada Research Chair in *Critical Care Nephrology* (Career Award)
- 2008 Alberta Heritage Foundation for Medical Research (AHFMR) Independent Investigator (Career Award)
- 2007 The Australia New Zealand Intensive Care Society (ANZICS) Database Management Committee Award for Best Paper
- 2006 Best Medical Paper, Annual Australia and New Zealand Intensive Care Society (ANZICS) Annual Meeting, Hobart, Tasmania, Australia
- 2005 Canadian Institute of Health Research (CIHR) Clinical Fellowship
- 2005 Alberta Heritage Foundation for Medical Research (AHFMR) Clinical Fellowship
- 2005 Detweiler Travelling Fellowship, Royal College of Physicians and Surgeons of Canada
- 2004 Deans Research Excellence Award, University of Calgary, Calgary, Canada
- 2004 Canadian Institute of Health Research (CIHR) Graduate Scholarship Masters Award
- 2004 Department of Critical Care Medicine Research Award, University of Calgary, Calgary, Canada
- 2002 National Residents Education Program in Allergy and Clinical Immunology
- 1999 Bursary in Medicine, Faculty of Medicine, University of Calgary, Calgary, Canada
- 1998 Bursary in Medicine, Faculty of Medicine, University of Calgary, Calgary, Canada
- 1998 International Health Student Elective Bursary, Faculty of Medicine, University of Calgary, Calgary, Canada
- 1997 Bursary in Medicine, Faculty of Medicine, University of Calgary, Calgary, Canada
- 1996 The Theodor Ackermann Scholarship in Diabetes Research, University of Western Ontario, London, Canada
- 1996 Canadian Society for Exercise Physiology Undergraduate Award, University of Western Ontario, London, Canada
- 1995 The Jana Lyn Elise Oldham Award, University of Western Ontario, London, Canada
- 1995 In-Course Scholarship, University of Western Ontario, London, Canada
- 1994 In-Course Scholarship, University of Western Ontario, London, Canada

EDUCATIONAL ACTIVITIES

Examination

- 2021 14th WCHRI Research Day, Presentation Judge
- 2014 External examiner, Doctor of Philosophy thesis defence (Dr. Stacey Skoretz), University of Toronto
- 2013 External examiner, Doctor of Philosophy thesis defence (Dr. Anthony Delaney), University of Sydney
- 2013 External examiner, Master’s Medicine thesis defence (Dr. Anita Au), University of Alberta
- 2008 External examiner, Doctor of Philosophy thesis defence (Dr. Teresa Williams), University of Western Australia

Educational Roles

- 2018 – MED524/DDS507 (Death and Dying) – Undergraduate Medical Education (lecture; small group)
- 2017 – DMED511 (Brain Death – Death and Dying) – Undergraduate Medical Education (lecture; small group)
- 2008 – Critical Care Medicine Residency Program Committee – Research Coordinator
- 2008 – Critical Care Medicine Resident Research Day Committee
- 2007 – Critical Care Medicine Resident Academic Half Day (Evidence-Based Medicine, Critical Care Nephrology, Medical Emergency Teams, Frailty, Strained Capacity)
- 2005 Clinical Clerkship evaluator, Faculty of Medicine, University of Calgary, Calgary, Canada
- 2005 Preceptor for Pulmonary Medicine Course, Faculty of Medicine, University of Calgary, Calgary, Canada
- 2003 – 2004 Reviewer/Interviewer for CaRMS Internal Medicine residency, University of Calgary, Calgary, Canada
- 2001 Preceptor for Cardiovascular Course, Faculty of Medicine, University of Calgary, Calgary, Canada

Department (Academic)

- 2019 – Search and Selection, Academic Intensivist
Role: Chair
- 2017 – Edmonton Zone Medical Leadership Committee
Role: Co-Chair with Dr. Shelley Duggan (EZ CDH, AHS)
- 2015 – Search and Selection, Department of Critical Care Medicine, Clinical Scholar Program
Role: Chair
- 2008 – Critical Care Medicine Residency Program Committee
Role: Committee Member (currently non-voting – as Department Chair)
- 2012 – 2012 Search and Selection Committee, Department Chair
Role: Committee Member
- 2012 – 2017 Edmonton Zone Medical Leadership Committee
Role: Committee Member

Department (Alberta Health Services)

- 2018 – Search and Selection Committee, Intensivist, Edmonton Zone Intensive Care Units
Role: Committee Member
- 2015 – 2017 Moral Distress Working Group (Cardiovascular Surgical Intensive Care Unit, Mazankowski Alberta Health Institute)
Role: Committee Member
- 2012 – 2015 University of Alberta Hospital MET Quality Review Committee
Role: Committee Member

- 2010 – General Systems Intensive Care Unit Quality Improvement Committee
Role: Committee Member
- 2009 – 2013 Pandemic Influenza Scientific Expert Committee, Edmonton Zone
Role: Committee Member
- 2007 – 2016 Regional Continuous Renal Replacement Therapy (CRRT) Committee
Role: Committee Member

Faculty of Medicine and Dentistry

- 2019 – Internal Review Committee - Alberta Innovates/Alberta Health Services –
Partnership for Research and Innovation in the Health System (PRIHS) (2019-2020)
Role: Committee Member
- 2019 – 2020 Faculty Research Council
Role: Committee Member
- 2018 – Faculty Clinical Research Initiative
Role: Committee Member
- 2017 – Northern Zone Academic Medicine and Health Services Program (AMHSP)
Steering Committee
Role: Committee Member

Provincial (Alberta Health Services)

- 2021 – Critical Care Strategic Clinical Network
Role: Deputy Senior Medical Director
- 2018 – Critical Care Strategic Clinical Network,
Role: Scientific Director
- 2017 – Provincial Academic Medicine and Health Services Program (AMHSP) Operations
Committee
Role: Committee Member
- 2016 – Northern Alberta Clinical Trials and Research Centre (NACTRC), Board of
Directors
Role: Member (voting)
- 2013 – Critical Care Strategic Clinical Network Core Committee
Role: Committee Member
- 2013 – 2018 Critical Care Strategic Clinical Network Scientific Advisory Committee
Role: Committee Member
- 2012 – 2018 eCritical Alberta
Role: Committee Member

National Committees

- 2011 – 2019 Canadian Frailty Network (CFN) – Networks Centers of Excellence, Scientific Advisory/Review Committee
- 2017 – 2017 Canadian Institute for Health Information
Role: Scientific Advisor
Report: Care in Canadian ICUs
(https://secure.cihi.ca/free_products/ICU_Report_EN.pdf)

Symposia and Conferences

- 2021 *Critical Care Canada Forum*, Toronto, Canada (December); Member, Executive Committee.
- 2020 *Critical Care Canada Forum*, Toronto, Canada (November); Member, Executive Committee.
- 2019 *Critical Care Canada Forum*, Toronto, Canada (November); Member, Executive Committee.
- 2018 *Critical Care Canada Forum*, Toronto, Canada (November); Member, Executive Committee.
- 2017 *Critical Care Canada Forum*, Toronto, Canada (November); Member, Executive Committee.
- 2016 *Critical Care Canada Forum*, Toronto, Canada (October-November); Member, Executive Committee.
- 2016 *National Kidney Foundation (NKF) 2016 Spring Clinical Meetings (SCM16)*, Boston, Mass (April); Member, Organizing Committee.
- 2015 *Acute Dialysis Quality Initiative XV – AKI in the Era of Big Data*, Banff, Alberta (September); Chair.
- 2015 *Critical Care Canada Forum*, Toronto, Canada (October-November); Member, Scientific Advisory Board.
- 2015 *35th International Symposium on Intensive Care and Emergency Medicine*, Brussels, Belgium (March); Member, Scientific Advisory Board.
- 2015 *National Kidney Foundation (NKF) 2015 Spring Clinical Meetings (SCM15)*, Dallas, Texas (March); Member, Organizing Committee.
- 2014 *Critical Care Canada Forum*, Toronto, Canada (October-November); Member, Scientific Advisory Board.
- 2014 *34th International Symposium on Intensive Care and Emergency Medicine*, Brussels, Belgium (March); Member, Scientific Advisory Board.
- 2013 *Critical Care Canada Forum*, Toronto, Canada (November); Member, Scientific Advisory Board.
- 2013 *33rd International Symposium on Intensive Care and Emergency Medicine*, Brussels, Belgium (March); Member, Scientific Advisory Board.
- 2012 *32nd International Symposium on Intensive Care and Emergency Medicine*, Brussels, Belgium (March); Member, Scientific Advisory Board.
- 2012 *Critical Care Canada Forum*, Toronto, Canada (November); Member, Scientific Advisory Board.

- 2010 *Cardio-Renal Syndrome Satellite Symposium*, International Society of Hypertension, Vancouver, Canada (September); Conference Co-Chair with Dr. Branko Braam.
- 2010 *Acute Kidney Injury and Renal Support in Critical Illness Symposium*, Edmonton, Canada (April); Conference Co-Chair with Dr. Noel Gibney.

Post-Graduate Medical Education

- 2016 University of Alberta Burn Life Support and Management Course
- 2009 Bedside Ultrasound in the ICU Seminar, Innovative Critical Care Ultrasound, Edmonton, Alberta
- 2004 Disaster Medicine: Beyond First Response, Post-graduate course, American College of Chest Physicians Annual CHEST Conference, Seattle, USA
- 2004 Department of Critical Care Medicine Quality Improvement Workshop, Calgary, Canada
- 2004 Systematic Reviews: Meta-Analysis in Context Short Course, University of Bristol, Bristol, UK
- 2003 Regional Difficult Airway Management Workshop, Calgary Health Region, Calgary, Canada
- 2003 ACES Critical Care Course, Ottawa, Canada
- 2000 Advanced Cardiac Life Support certification, American Heart Association, Calgary, Canada
- 2000 Clinical Elective in Pain Medicine, Beth Israel Medical Center, New York, USA
- 1998 Advanced Trauma Life Support Course, University of Calgary, Calgary, Canada
- 1998 Clinical Elective in Trauma Surgery, Grootte Schuur Hospital, Cape Town, South Africa

SUPERVISION/MENTORSHIP

Undergraduate Student Supervision

- 2019 – Erin Hessey, Medical Student
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Project: Sex-specific differences in frailty and outcomes in patients admitted to ICU.
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/33005426/>
- 2016 – 2017 Drayton Trumble, Summer studentship
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Project: Falls in the ICU.
Funding: Alberta Innovates - Health Solutions Summer Studentship
Published: <https://pubmed.ncbi.nlm.nih.gov/29202254/>
- 2015 – 2016 Satbir Kullar, Summer studentship
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Project: Quality of Care in Acute Kidney Injury.
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
- 2011 – 2012 Mohammad Ahmed, Medical student
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Project: Acute Kidney Injury After Lung Transplantation.
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry

Published: <https://pubmed.ncbi.nlm.nih.gov/24957809/>;
<https://pubmed.ncbi.nlm.nih.gov/25138690/>

2008 – 2010 Ambica Parmar, Summer studentship
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Project: Medical emergency team activations.
Funding: Health Quality Council of Alberta Scholarship; Alberta Innovates - Health Solutions Summer Studentship
Published: <https://pubmed.ncbi.nlm.nih.gov/23387893/>;
<https://pubmed.ncbi.nlm.nih.gov/21829016/>;
<https://pubmed.ncbi.nlm.nih.gov/21209135/>;
<https://pubmed.ncbi.nlm.nih.gov/21926596/>

Clinical and Post-Doctoral Supervision

- 2019 – 2021 Dr. Carmel Montgomery, Post-doctoral fellowship.
Institute for Health Economics, Department of Critical Care Medicine, Faculty of Medicine and Dentistry, University of Alberta
Role: Primary supervisor.
Project: Economic cost of frailty in cardiac surgery.
Published: <https://pubmed.ncbi.nlm.nih.gov/33458633/>;
<https://pubmed.ncbi.nlm.nih.gov/34285057/>
- 2019 – 2020 Dr. Sarah K. Andersen, Post-doctoral critical care medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: Early death after ICU admission.
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/32942163/>
- 2019 – 2020 Dr. Jean Deschamps, Post-doctoral critical care medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: Systematic review of BNP for predicting extubation success.
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/30760513/>;
<https://pubmed.ncbi.nlm.nih.gov/32393393/>
- 2018 – 2020 Dr. Megan Surkan, Post-doctoral geriatric medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Co-Primary supervisor.
Project: Validation of the Clinical Frailty Scale score in eCritical.
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/32904800/>
- 2018 – 2020 Dr. Jeremy Katulka, Post-doctoral critical care medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: Predicting liberation from acute renal replacement therapy in the ICU.

Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/30478115/>;
<https://pubmed.ncbi.nlm.nih.gov/32054522/>

- 2016 – 2019 Dr. Adam Hall, Post-doctoral critical care medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: Afterhours admission and discharge to ICU.
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/29665826/>
- 2015 – 2018 Dr. Naheed Rajabali, Post-doctoral geriatric medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Co-Primary supervisor.
Project: Validation of the Clinical Frailty Scale score in eCritical.
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/32904800/>;
<https://pubmed.ncbi.nlm.nih.gov/27476983/>
- 2017 – 2019 Dr. Anne Gregory, Post-doctoral critical care medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Co-supervisor.
Project: End-of-life care in patients infected with HIV admitted to ICU.
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/31271956/>
- 2015 – 2017 Dr. Philippe Lachance, Post-doctoral critical care medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: e-Alerts for detection of AKI in electronic health records.
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/27150187/>;
<https://pubmed.ncbi.nlm.nih.gov/28088774/>
- 2015 – 2017 Dr. Pierre-Marc Villeneuve, Post-doctoral critical care medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: Health-related quality of life among survivors of AKI.
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/26626062/>
- 2014 – 2018 Dr. Brandon Galm, Post-doctoral internal medicine/endocrinology resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Co-supervisor.
Project: IV fluid and resuscitation in DKA.
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/30579737/>

- 2013 – 2017 Dr. Erika MacIntyre, Post-doctoral critical care medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: Incidence and utilization of home mechanical ventilation.
Funding: Covenant Health Grant
Published: <https://pubmed.ncbi.nlm.nih.gov/27445559/>
- 2010 – 2013 Dr. Ilana Kopolovic, Post-doctoral internal medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: AKI in abdominal aortic aneurysm repair
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/22871065/>;
<https://pubmed.ncbi.nlm.nih.gov/23634748/>
- 2010 – 2015 Dr. Wei Wang, Post-doctoral cardiac surgery resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: Outcomes of older patients undergoing cardiac surgery
Funding: Department Surgery, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/25761494/>
- 2010 – 2014 Dr. Adam Romanovsky, Post-doctoral critical care medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: Serum sodium shifts during liver transplantation.
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/25347235/>
- 2010 – 2013 Dr. Heidi Choi, Post-doctoral internal medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: DKA and critical illness
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/25220529/>
- 2010 – 2012 Dr. Dominic Carney, Post-doctoral critical care medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: Outcomes of UIP in ICU
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Presented: At the *2012 American Thoracic Society International Conference*, San Francisco, USA (MAY 2012)
- 2009 – 2011 Dr. Paul Engels, Post-doctoral critical care medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: Pleth Variability Index in Critical Care Trauma Patients.

Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Presented: At the *2011 Trauma Association of Canada (TAC) Annual Scientific Meeting*, Banff, CANADA (APRIL 2011)

- 2008 – 2009 Dr. Kris Chan, Post-doctoral internal medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: Clinical outcomes and prognostic factors in patients with acute myelogenous leukemia (AML) admitted to the intensive care unit
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/20920175/>
- 2008 – 2010 Dr. Amanda Roze des Ordons, Post-doctoral anesthesiology resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: Clinical outcomes and prognostic factors in patients with acute myelogenous leukemia (AML) admitted to the intensive care unit
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/20920175/>
- 2008 – 2010 Dr. Hussein Kanji, Post-doctoral emergency medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: Difference between pre-operative and cardiopulmonary bypass MAP and risk of AKI after cardiac surgery
Funding: Edmonton Civil Employees Grant
Published: <https://pubmed.ncbi.nlm.nih.gov/20825657/>
- 2007 – 2009 Dr. Constantine Karvellas, Post-doctoral critical care medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: A case-control study of single-pass albumin dialysis for acetaminophen-induced acute liver failure.
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Published: <https://pubmed.ncbi.nlm.nih.gov/19590182/>;
<https://pubmed.ncbi.nlm.nih.gov/18609519/>
- 2008 – 2009 Dr. Aidan Cunniffe, Post-doctoral family/emergency medicine resident
Department of Critical Care Medicine, Faculty of Medicine and Dentistry
Role: Primary supervisor.
Project: Satisfaction with Emergency Department care among family members of critically ill patients
Funding: Department of Emergency Medicine
Presented: At the Annual Canadian Association of Emergency Physicians, Calgary, Canada (June 2009).

International Research Fellowship Supervision

- 2013 – 2014 Dr. Luciano Pontes de Azevedo, Post-doctoral research fellow (Sao Paulo, Brazil)

Department of Critical Care Medicine, Faculty of Medicine and Dentistry

Role: Primary supervisor.

Project: DKA in ICU; ICU organization.

Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry

Published: <https://pubmed.ncbi.nlm.nih.gov/25220529/>;

<https://pubmed.ncbi.nlm.nih.gov/26369933/>

2013 – 2013 Dr. Filipe Sousa Cardoso, Post-doctoral research fellow (Lisbon, Portugal)

Department of Critical Care Medicine, Faculty of Medicine and Dentistry

Role: Primary supervisor.

Project: Liver transplant in the ICU.

Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry

Published: <https://pubmed.ncbi.nlm.nih.gov/24857401/>;

<https://pubmed.ncbi.nlm.nih.gov/25965438/>;

<https://pubmed.ncbi.nlm.nih.gov/26019037/>

2013 – 2013 Dr. Pedro Fidalgo, Post-doctoral research fellow (Lisbon, Portugal)

Department of Critical Care Medicine, Faculty of Medicine and Dentistry

Role: Primary supervisor.

Project: Lung transplant in the ICU.

Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry

Published: <https://pubmed.ncbi.nlm.nih.gov/24957809/>;

<https://pubmed.ncbi.nlm.nih.gov/25138690/>

2010 – 2011 Dr. Ivens Augusto de Souza, Post-doctoral research fellow (Sao Paulo, Brazil)

Department of Critical Care Medicine, Faculty of Medicine and Dentistry

Role: Primary supervisor.

Project: MET activation; ICU organization.

Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry

Published: <https://pubmed.ncbi.nlm.nih.gov/22190540/>;

<https://pubmed.ncbi.nlm.nih.gov/22554100/>

Graduate Student Supervision

2019 – Dr. Emma Ulrich, MSc Student.

School of Public Health, Department of Pediatrics, Faculty of Medicine and Dentistry, University of Alberta

Role: Primary supervisor

Project: Health economic consequences of AKI in critically ill children.

Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry, University of Alberta

2016 – 2019 Carmel Montgomery, PhD Student.

Department of Critical Care Medicine, Faculty of Medicine and Dentistry, University of Alberta

Role: Primary supervisor.

Project: Frailty in critical illness and cardiac surgery.

Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry, University of Alberta; Canadian Frailty Network Inter-Disciplinary Fellowship; Mazankowski Alberta Heart Institute Motyl Cardiac Science Studentship.
Published: <https://pubmed.ncbi.nlm.nih.gov/31144259/>;
<https://pubmed.ncbi.nlm.nih.gov/34285057/>

2014 – 2019 Dr. Rashid Alobaidi, MSc Student.
Department of Critical Care Medicine, Faculty of Medicine and Dentistry, University of Alberta
Role: Primary supervisor.
Project: AKI in critically ill children.
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry, University of Alberta.
Published: <https://pubmed.ncbi.nlm.nih.gov/28321321/>;
<https://pubmed.ncbi.nlm.nih.gov/29356810/>;
<https://pubmed.ncbi.nlm.nih.gov/31568261/>;
<https://pubmed.ncbi.nlm.nih.gov/32371612/>;
<https://pubmed.ncbi.nlm.nih.gov/33729733/>

2014 – 2019 Rami Zibdawi, MSc Student.
Department of Critical Care Medicine, Faculty of Medicine and Dentistry, University of Alberta
Role: Primary supervisor.
Project: Rapid Response Team Activations in Patients Not For Resuscitation
Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry, University of Alberta.
Published: *Submitted to Can J Resp Sleep Crit Care – An Evaluation of Medical Emergency Team Activations in Patients Designated as Not-For-Resuscitation: A Retrospective Cohort Study*

2014 – 2018 Dr. Oleksa Rewa, MSc Student.
Role: Primary supervisor.
Project: Quality indicators of CRRT.
Funding: CIHR Canada Graduate Scholarship; Canadian Critical Care Trials Group/Critical Care Strategic Clinical Network Research Fellowship
Published: <https://pubmed.ncbi.nlm.nih.gov/26224139/>;
<https://pubmed.ncbi.nlm.nih.gov/26539922/>;
<https://pubmed.ncbi.nlm.nih.gov/27730284/>;
<https://pubmed.ncbi.nlm.nih.gov/29990792/>;
<https://pubmed.ncbi.nlm.nih.gov/31349160/>

2013 – 2016 Dr. Jaime Bastos, MSc Student.
Role: Supervisor committee member.
Project: Assessment of Intensive Care Unit Outreach Transition Programs effect on readmissions and mortality among ICU survivors discharged to ward.
Funding: Department of Critical Care Medicine, Cumming School of Medicine, University of Calgary.
Published: <https://pubmed.ncbi.nlm.nih.gov/26694189/>

- 2013 – 2018 Dr. Abdelsalam Elhenawy, MSc Student.
 Role: Supervisor committee member.
 Project: Iron therapy to correct anemia in major surgery.
 Funding: Division of Cardiac Surgery, Department of Surgery, Faculty of Medicine and Dentistry, University of Alberta.
 Published: <https://pubmed.ncbi.nlm.nih.gov/25874460/>;
<https://pubmed.ncbi.nlm.nih.gov/33485392/>
- 2009 – 2012 Dr. Constantine Karvellas, MSc Student.
 Role: Primary supervisor.
 Project: Peri-operative prognostication in liver transplantation.
 Funding: Department of Critical Care Medicine, Faculty of Medicine and Dentistry, University of Alberta.
 Published: <https://pubmed.ncbi.nlm.nih.gov/23394270/>

Other Highly Qualified Personnel

- 2012 – Dawn Opgenorth, Project Manager.
 Role: Primary supervisor.
 Project: Health care professionals' perspectives on strained ICU capacity.
 Funding: Partnership for Research and Innovation in the Health System (PRIHS), AHS/AI
 Published: <https://pubmed.ncbi.nlm.nih.gov/30133479/>
- 2010 – 2015 Kristen Reid, Research Coordinator
 Role: Primary Supervisor
 Project: GLADIATOR: Glutamine enterally After cardiac surgery for Inflammation Attenuation and outcome improvement: A Phase II Randomized, Blinded, Placebo-Controlled Trial
 Presented: *To the 2015 American Thoracic Society International Conference*, Denver (USA) (May 2015)

International Post-Doctoral Clinical Trainees

- 2020 – Dr. Lu Guiyang, Critical Care Medicine physician, First Affiliative Hospital, Young Physician's Leadership Program, Faculty of Medicine and Dentistry, University of Alberta
- 2019 – 2019 Dr. Rodrigo Rotheia, Critical Care Medicine resident, Hospital Sirio-Libanés, Sao Paulo, Brazil.
- 2019 – 2019 Dr. Cui Ying, Critical Care Medicine physician, Young Physician's Leadership Program, Faculty of Medicine and Dentistry, University of Alberta

Highly Qualified Personnel/Trainee Awards/Scholarships

Year	HQP	Sponsor	Award
2008	H. Kanji	Edmonton Civic Employees Scholarship	\$5,000.00
2009	A. Parmar	Health Quality Council of Alberta Scholarship	\$6,000.00

2010	A. Parmar	Alberta Innovates - Health Solutions Summer Studentship	\$6,000.00
2015	O. Rewa	CIHR Canada Graduate Scholarship	\$17,500.00
2015	E. Macintyre	Covenant Health Grant	\$5,000.00
2015	O. Rewa	University of Alberta Hospital Foundation Medical Research Competition	\$35,000.00
2016	D. Opgenorth	Outstanding Health Professional Abstract Award (Critical Care Canada Forum)	-
2016	D. Trumble	Alberta Innovates - Health Solutions Summer Studentship	\$6,000.00
2017	O. Rewa	Canadian Critical Care Trials Group/Critical Care Strategic Clinical Network Research Fellowship	\$50,000.00
2017	C. Montgomery	Mazankowski Alberta Heart Institute Motyl Cardiac Science Studentship	\$20,000.00
2017	C. Montgomery	Canadian Frailty Network Inter- Disciplinary Fellowship	\$17,500.00
2018	A. Hall	Alberta Society of Intensive Care Physicians/ Critical Care Strategic Clinical Network Research Symposium – Oral Abstract – 1 st Prize	\$500.00
2018	R. Alobaidi	Department of Critical Care Medicine Research Day 1 st Prize	\$500.00
2018	R. Alobaidi	Baxter Young Investigator Award	\$500.00
2018	R. Alobaidi	2018 International Symposium on AKI in Children – 1 st Prize	\$1000.00
2019	C. Montgomery	2019 Canadian Cardiovascular Congress – Oral Abstract	-
2019	E. Hessey	2020 Libin International Trainee Symposium	\$500.00
2020	C. Montgomery	2019 Network of Alberta Health Economists (NOAHE) Health Economic Scholar/Fellowship Award	\$55,000.00
2020	E. Hessey	2020 Alberta Society of Intensive Care Physicians/ Critical Care Strategic Clinical Network – Oral Abstract – 2 nd prize	\$100.00
2021	R. Alobaidi	WCHRI Innovation Grant Program	\$60,000.00

RESEARCH FUNDING

Total Funding Received from 2001-2020: \$86,186,445
Total Funding Received as Principal Investigator: \$23,071,640

Scholarships/Career Awards:

Year	Sponsor	Competition	Title	Start Year	End Year	Total Award
1996	Robarts Research Institute	Theodor Ackermann Scholarship in Diabetes Research	Immunology in diabetes mellitus type 1	1996	1996	\$6,000.00
2004	CIHR	Graduate Scholarship Masters Award	Severe acute kidney injury in critically ill patients	2004	2004	\$17,500.00
2005	Alberta Heritage Foundation for Medical Research	Clinical Fellowship	N-acetylcysteine for prevention of AKI in cardiac surgery	2005	2007	
2005	Royal College Physicians and Surgeons of Canada	Detweiler Traveling Fellowship	N-acetylcysteine for prevention of AKI in cardiac surgery	2005	2007	\$25,000.00
2006	CIHR	Clinical Fellowship	N-acetylcysteine for prevention of AKI in cardiac surgery	2006	2007	\$50,000.00
2008	Albert Heritage Foundation for Medical Research	Clinical Investigator	Furosemide for early acute kidney injury in critically ill patients	2008	2015	\$1,185,000.00
2011	Government of Canada	Canada Research Chair (Tier 2)	Critical Care Nephrology	2011	2016	\$800,000.00
2016	Government of Canada	Canada Research Chair (Tier 2)	Critical Care Nephrology	2016	2021	\$800,000.00
2021	Government of Canada	Canada Research Chair (Tier 1)	Critical Care Outcomes and Systems Evaluation	2021	2028	\$1,400,000.00

Research Funding as Principal Investigator:

Year	Sponsor	Competition	Title	Start Year	End Year	Award	Status
2006	Austin Anaesthesia and Intensive Care Trust	Seed Grant	Plasma and Urine Neutrophil Gelatinase-Associated Lipocalin (NGAL) in Septic versus Non-Septic Critically Ill Patients with Acute Kidney Injury.	2006	2007	\$18,200	Awarded
2007	Faculty of Medicine and Dentistry, University of Alberta	Establishment Grant	Furosemide for early acute kidney injury in critically ill patients	2007	2012	\$60,000	Awarded
2007	Canadian Intensive Care Foundation	Operating Grant	A pilot randomized, double-blind, placebo-controlled trial of the effect of sodium bicarbonate on post-operative	2007	2008	\$20,000	Awarded

			kidney function in patients undergoing elective cardiopulmonary bypass				
2007	University of Alberta Hospital Foundation	Medical Research Competition	Timing of Renal Replacement Therapy in Critically Ill Patients with Acute Kidney Injury	2007	2008	\$21,703	Awarded
2009	University of Alberta Hospital Foundation	Medical Research Competition	Five Percent Albumin Versus Normal Saline As Fluid Resuscitation Strategies For The Early Management Of Suspected Septic Shock (PRECISE Trial)	2009	2010	\$20,450	Awarded
2010	University of Alberta Hospital Foundation	Medical Research Competition	A prospective multicentre observational study of frailty in critically illness (ICU FRAILTY Study)	2010	2011	\$25,000	Awarded
2010	Alberta Heritage Foundation for Medical Research	Conference Grant	Acute Kidney Injury and Renal Support in Critical Illness Symposium	2010	2010	\$2,500	Awarded
2011	CIHR	Open Operating Grant	A prospective multicentre observational study of frailty in critically illness (ICU FRAILTY Study)	2011	2014	\$146,718	Awarded
2011	CIHR	Open Operating Grant	Standard versus Accelerated Initiation of Renal Replacement Therapy in Acute Kidney Injury (STARRT-AKI)	2011	2014	\$276,360	Awarded
2011	University of Alberta Hospital Foundation	Medical Research Competition	Standard versus Accelerated Initiation of Renal Replacement Therapy in Acute Kidney Injury (STARRT-AKI)	2011	2012	\$19,750	Awarded
2012	University of Alberta Hospital Foundation	Medical Research Competition	Enteral Glutamine to Improve Outcomes in Cardiovascular Surgical Patients: A Pilot Randomized, Blinded, Placebo-Controlled Trial	2012	2013	\$34,843	Awarded
2012	University of Alberta Hospital Foundation	Medical Research Competition	Intra-Operative Continuous Renal Replacement Therapy in Liver Transplantation: A phase II randomized controlled trial	2012	2013	\$34,843	Awarded
2012	MSI Foundation	Open Operating Grant	A Prospective Multi-centre Observational Study of Frailty in Cardiac Surgery in Alberta	2012	2015	\$88,000	Awarded
2012	University of Alberta	University-Wide Bridge Funding	Furosemide for early acute kidney injury in critically ill patients	2012	2014	\$40,000	Awarded

2014	Alberta Innovates	Partnership for Research and Innovation in the Health System (PRIHS)	Reassessing Practices in the Daily Care of Critically Ill Patients: Building Capacity and Methodology to Identify & Close Evidence-care Gaps	2014	2018	\$748,000	Awarded
2014	Alberta Innovates	Partnership for Research and Innovation in the Health System (PRIHS)	Identifying and Evaluating Intensive Care Unit Capacity Strain in Alberta	2014	2018	\$743,000	Awarded
2014	CIHR	Bridge Funding	Standard versus Accelerated Initiation of Renal Replacement Therapy in Acute Kidney Injury (STARRT-AKI)	2014	2015	\$100,000	Awarded
2014	Canadian Frailty Network	Core Grant	Reengineering the Discharge of Elderly Patients from ICU	2014	2016	\$25,468	Awarded
2015	Canadian Frailty Network	Catalyst Grant	Clinical Frailty Scale Score Implementation into a Provincial Bedside Clinical Information System (eCritical)	2015	2016	\$100,000	Awarded
2015	CIHR	Open Operating Grant	Standard versus Accelerated Initiation of Renal Replacement Therapy in Acute Kidney Injury (STARRT-AKI)	2015	2019	\$1,177,472	Awarded
2015	CIHR	Industry Partnered Collaborative Operating Grant	Standard versus Accelerated Initiation of Renal Replacement Therapy in Acute Kidney Injury (STARRT-AKI)	2016	2021	\$1,020,996	Awarded
2015	National Health and Medical Research Council of Australia	Project Grant	Standard versus Accelerated Initiation of Renal Replacement Therapy in Acute Kidney Injury (STARRT-AKI)	2015	2019	\$2,112,447	Awarded
2016	Baxter Healthcare Corp.	Investigator Initiated Research Grant	Key Quality Indicators for Continuous Renal Replacement Therapy in Critically Ill Patients: A Systematic Review	2016	2018	\$48,500	Awarded
2017	Health Research Council of New Zealand	Project Grant	Standard versus Accelerated Initiation of Renal Replacement Therapy in Acute Kidney Injury (STARRT-AKI)	2017	2021	\$1,191,467	Awarded
2017	CIHR	Project Grant	Standard versus Accelerated Initiation of Renal Replacement Therapy in	2018	2022	\$1,556,776	Awarded

			Acute Kidney Injury (STARRT-AKI)				
2018	CIHR	Project Grant	A cluster randomized, crossover, registry-embedded clinical trial proton pump inhibitors vs. histamine-2 receptor blockers for ulcer prophylaxis therapy in the Intensive Care Unit (PEPTIC)	2018	2020	\$317,475	Awarded
2019	Alberta SPOR Support Unit – Pragmatic Trials Platform	Demonstration Project Grant	Mega-ROX	2019	2021	\$100,000.00	Awarded
2020	CFN/CIHR	COVID-19 Project	Frailty and COVID-19	2020	2022	\$48,625.00	Awarded
2020	AI/AHS	COVID-19 Project	PRONTO (Prone Position in COVID)	2020	2023	362,285.00	Awarded
2020	CIHR	Networks of Clinical Trials Networks	The Canadian Network of COVID-19 Clinical Trials Networks	2021	2023	\$6,000,000	Awarded
2020	AI/AHS	Health Innovation Implementation and Spread (HIIS)	Venting Wisely	2020	2023	\$795,688	Awarded
2021	AI/AHS	Partnership for Research and Innovation in the Health System (PRIHS)	Dialyzing Wisely	2021	2024	\$830,255	Awarded

Research Funding as Co-Investigator:

Year	Sponsor	Competition	PI	Title	Start Year	End Year	Total Award	Status
2005	Canadian Intensive Care Foundation	Operating Grant	K. Laupland	Epidemiology of severe acute renal failure in critically ill patients	2005	2007	\$20,000.00	Awarded
2008	CIHR	Partnership for Health System Improvement (PHSI)	T. Stelfox	Assessing Care of Patients with Major Traumatic Injuries	2008	2010	\$147,273.00	Awarded
2008	Edmonton Civic Employees Grant	Operating Grant	H. Kanji	Difference between pre-operative and cardiopulmonary	2008	2009	\$5,000.00	Awarded

				bypass blood pressures and cardiac surgery-associated AKI				
2009	University of Alberta Hospital Foundation	Medical Research Competition	M. Jacka	Using Atorvastatin to prevent Vascular Inflammatory OccLUSion in the Critically Ill (VASTAVLUS): A phase II randomized controlled trial	2009	2010	\$25,000.00	Awarded
2009	Canadian Blood Services	Operating Grant	L. Macintyre	Five Percent Albumin Versus Normal Saline As Fluid Resuscitation Strategies For The Early Management Of Suspected Septic Shock (PRECISE Trial)	2009	2011	\$150,000.00	Awarded
2009	CIHR	Operating Grant	P.J. Devereaux	Renal Function as a predictor of Vascular events In noncardiac Surgery patients cOhort evaluation (RE-VISION)	2009	2011	\$284,327.00	Awarded
2009	CIHR	Operating Grant	D. Heyland	REALISTIC 80 Study	2009	2012	\$943,227.00	Awarded
2010	CIHR	Operating Grant	R. Whitlock	SIRS Study	2010	2014	\$4,062,400.00	Awarded
2010	CIHR	Operating Grant	H.T. Stelfox	The impact of reduced ICU bed availability due to the H1N1 pandemic on the care and outcomes of acutely unwell hospitalized patients	2010	2012	\$92,600.00	Awarded
2010	Transplant Value Added Fund (University of Alberta)	Operating Grant	C. Karvellas	Validation of pre-operative scoring systems and renal biomarkers in critically ill patients with acute on chronic liver failure assessed for	2010	2011	\$25,000.00	Awarded

				liver transplantation				
2011	CIHR	Operating Grant	D. Heyland	Advance Care Planning Evaluation in Elderly Patients: A multi-center, prospective study (The ACCEPT Study)	2011	2013	\$333,418.00	Awarded
2011	CIHR	Operating Grant	D. Mazer	TRICS 2 study	2011	2013	\$118,822.00	Awarded
2012	Network Centers of Excellence (NCE)	Network Grant	D. Heyland	TECHVALUE NET: Better Health for an Ageing Population	2012	2017	\$23,888,157.00	Awarded
2012	CIHR	Operating Grant	A. Turgeon	Early Determination of long-term Prognosis in critically ill patients with Severe Traumatic Brain Injury (TBI-Prognosis multicenter prospective study)	2012	2016	\$1,053,131.00	Awarded
2012	Academic Health Science Centre AFT Innovation Fund	Operating Grant	M. Kho	Prevalence Study of Barriers to Acute Rehabilitation in Canadian Intensive Care Units	2012	2013	\$102,184.00	Awarded
2012	Physician Services Incorporated	Health Research Grant	M. Kho	Point Prevalence Study of Barriers to Acute Rehabilitation in Ontario Intensive Care Units	2012	2013	\$58,235.00	Awarded
2013	CIHR	Operating Grant	D. Fergusson	TRICS 3 Study	2013	2018	\$3,323,110.00	Awarded
2013	CIHR	Planning Grant	C. Maxwell	Emerging research and clinical priorities in the detection and management of frailty in older patients across acute care settings	2013	2013	\$24,150.00	Awarded
2013	University of Alberta	Medical Research Competition	S. van Diepen	COMParison of Angiotensin Converting	2014	2015	\$34,979.00	Awarded

	Hospital Foundation			enzyme inhibitor management strategies prior to coronary artery bypass surgery (the COMPACT trial): a pilot randomized controlled registry study					
2014	Canadian Frailty Network	Core Grant	R. Arora	Pre-operative Rehabilitation for reduction of Hospitalization after coronary Bypass and Valvular surgery	2014	2016	\$94,504.00	Awarded	
2014	Heart and Stroke Foundation	Grant-In-Aid	R. Arora	Pre-operative Rehabilitation for reduction of Hospitalization after coronary Bypass and Valvular surgery	2014	2017	\$259,192.00	Awarded	
2014	CIHR	Planning and Dissemination Grant	P. Hebert	Structuring Patient-Oriented Research: Developing a National Agenda in Patient Care Research and Evaluation	2014	2015	\$25,000.00	Awarded	
2015	MSI Foundation	Operating Grant	S. Au	Determining Best Practices for Patient and Family Participation in Intensive Care Unit Rounds	2015	2017	\$98,000.00		
2015	Canadian Frailty Network	Core Grant	H. Keller	Nutrition Screening and Care Process Implementation Program to Address Malnutrition in Elderly Acute Care Patients	2015	2018	\$1,000,000.00	Awarded	
2015	Canadian Frailty Network	Core Grant	P. Hebert	From Home Care to Acute Care and Back Again Research Program	2015	2018	\$1,000,000.00	Awarded	
2015	MSI Foundation	Project Grant	J. Parsons-Leigh	Developing a framework for the	2015	2017	\$99,116.00	Awarded	

				de-adoption of low-value clinical practices in acute care facilities				
2015	W21C Research and Innovation Center	Seed Grant	J. Parsons-Leigh	Developing a framework for the de-adoption of low-value clinical practices in acute care facilities	2015	2017	\$9,000.00	Awarded
2015	Critical Care Strategic Clinical Network	Seed Grant	J. Parsons-Leigh	Developing a framework for the de-adoption of low-value clinical practices in acute care facilities	2015	2017	\$16,250.00	Awarded
2015	CIHR	Foundation Scheme	M. James	Better Prediction and Decision Support Tools to Improve Care and Outcomes for Patients with Acute Kidney Injury	2015	2020	\$1,900,000.00	Awarded
2015	CIHR	Planning and Dissemination Grant	P. Hebert	A National Strategy on Quality of Care Research and Evaluation – With the Patient for the Patient	2015	2016	\$25,000.00	Awarded
2016	CIHR	Project Grant	N. Daneman	Bacteremia Antibiotic Length Actually Needed for Clinical Effectiveness (BALANCE): A Randomized Controlled Clinical Trial	2016	2021	\$2,010,635.00	Awarded
2016	CIHR	Project Grant	J. Parsons-Leigh	De-adoption of low value practice in critical care medicine	2016	2019	\$420,000.00	Awarded
2016	CIHR	Project Grant	E. Papathanasoglou	REPOSE: Relaxation for critically ill patient outcomes and stress-coping enhancement: Clinical trial of an integrative	2016	2018	\$187,302.00	Awarded

				intervention to improve critically ill patients delirium and related outcomes				
2017	Edmonton Zone Medical Staff Association	Quality Improvement Grant	O. Rewa	Closing the Loop – Enhancing Communication Between Intensivists and General Practitioners for Improved Patient Care Following Critical Illness	2017	2018	\$40,000.00	Awarded
2017	Alberta Health Services	Medical Affairs Quality Innovation Fund	O. Rewa	Optimizing Mobility for Critically Ill Patients While Undergoing Continuous Renal Replacement Therapy (MOvE CRRT)	2017	2018	\$24,965.78	Awarded
2017	CIHR	Project Grant	K. Fiest	Family assessment of delirium in ICU	2017	2020	\$560,000.00	Awarded
2018	CIHR	iCT	J. Marshall	Canadian Adaptive Platform Trial in Intensive Care (CAPTIC) Program	2018	2023	\$1,783,487.00	Awarded
2018	CFN	Catalyst	K. Fiest	Family identification of delirium in critically ill patients living with frailty	2018	2019	\$100,000.00	Awarded
2018	CIHR	Project Grant	C. Parshuram	INCuRS	2019	2022	\$3,048,525.00	Awarded
2018	CIHR	Project Grant	J. Marshall	RADAR	2019	2020	\$380,000.00	Awarded
2018	CIHR	Project Grant	D. Niven	Living KT Agenda to Improve the Delivery of Evidence-Based Care in Critical Care Medicine	2019	2022	\$393,974.00	Awarded
2019	CIHR	Team Grant	K. Fiest	Co-Designing a Patient and Family Caregiver-Orientated Transitions in Care Bundle	2019	2022	\$958,400.00	Awarded

2019	CIHR	Transitions in Care Evaluation	J. Parsons-Leigh	Improving Transitions in Care from ICU: Evaluation of an Electronic Communication Tool	2019	2020	\$99,525.00	Awarded
2019	CIHR	Project Grant	D. Mazer	TRICS IV – Restrictive versus Liberal Transfusion in Younger Patients Undergoing Cardiac Surgery	2019	2022	\$1,675,350.00	Awarded
2019	Choosing Wisely Alberta	Project Grant	D. Niven	REDUCE (RED blood cell Utilization in Critical CareE)	2019	2020	\$99,631.00	Awarded
2019	AI/AHS	PRIHS	D. Niven	Don't Misuse My Blood	2019	2022	\$750,000.00	Awarded
2020	CIHR	Project Grant	K. Parhar	Venting Wisely	2020	2023	\$600,524.00	Awarded
2020	CIHR	Project Grant	B. Rochweg	Fluids in Septic Shock (FISSH)	2020	2024	\$1,147,501.00	Awarded
2020	CIHR	Project Grant	N. Ferguson	Ultra-Low Tidal Volume Ventilation in ARDS Through ECMO	2020	2022	\$520,200.00	Awarded
2020	CIHR	COVID	K. Fiest	Understanding and managing the effects of COVID-19 restricted visitation policies	2020	2021	\$298,769.00	Awarded
2020	CIHR	Team Network Grant	A. Fox-Robichaud	Canadian Sepsis Research Network	2020	2025	\$6,789,630.00	Awarded
2020	UHF	COVID	V. Lau	COVID Shunt Study	2020	2021	\$85,000.00	Awarded
2020	AI/AHS	HIIS	K. Parhar	Venting Wisely	2020	2023	\$750,000.00	Awarded
2021	KFC	Project Grant	R. Jeong	Follow-up and Outcomes of Critically Ill Patients with AKI	2021	2023	\$97,130	Awarded
2021	Saskatchewan Health Research Foundation (SHRF)	Establishment Grant	E. Sy	Saskatchewan Virtual Follow-up Clinic of Patients Directly Discharged Home from ICU (Vi-DISH)	2021	2024	\$120,000	Awarded

2021	CIHR	Project - Addressing the Wider Health Impacts of COVID-19	J. Downar	A mixed-methods study to develop a jurisdiction-level resource allocation framework to guide the use of triage and triage-avoidant strategies during an overwhelming surge in demand for critical and acute care	2021	2023	\$500,000	Awarded
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INVITED KEYNOTE ADDRESSES (4)

1. *Standard versus Accelerated Initiation of Renal Replacement Therapy in Acute Kidney Injury.* At 2021 Critical Care Reviews (Virtual), Belfast, United Kingdom (January 21, 2021).
2. *Standard versus Accelerated Initiation of Renal Replacement Therapy in Acute Kidney Injury.* At the 2020 Critical Care Canada Forum (Virtual), Toronto, Ontario (October 6, 2020).
3. *Strategies for Starting Renal Replacement Therapy in Critically Ill Patients with Acute Kidney Injury.* At the 6th Annual AKI Symposium, Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, USA (October 13, 2016)
4. *Frailty in Critical Illness.* At the 18th Jornades de Medicina Intensiva de Primavera, Porto, Portugal (April 18, 2013)

INVITATIONS AS A VISITING PROFESSOR (12)

1. **Columbia University:** Strategies for Starting RRT: Insights from STARRT-AKI. Renal Grand Rounds, Columbia University, New York, USA (November 13, 2020).
2. **Hospital Siro-Libanes:** Impact of Frailty in Critically Ill Patients: Does It Add Any Value? Critical Care Grand Rounds, Hospital Sirio-Libanes, Sao Paulo, Brazil (June 19, 2017)
3. **University of Toronto:** *e-Alerts for AKI and Integrated Clinical Decision Support*, City-Wide Nephrology Grand Rounds, University of Toronto, Toronto, Canada (December 7, 2016).
4. **University of Manitoba:** *Strategies for Starting Renal Replacement Therapy.* Division of Critical Care Medicine Grand Rounds, University of Manitoba, Winnipeg, Canada (September 28, 2016)
5. **Beijing Anchen Cardiac Surgery Hospital:** *Quality of Care in CRRT.* Department of Intensive Care Medicine Grand Rounds, Beijing Anchen Hospital, Beijing China (September 21, 2016)
6. **Beijing Friendship Hospital:** *Quality of Care in CRRT.* Department of Intensive Care Medicine Grand Rounds, Beijing Friendship Hospital, Beijing China (September 21, 2016)
7. **Nanjing Zhongda Hospital:** *Implementing Care Bundles for AKI.* Department of Critical Care Medicine Grand Rounds, Zhongda Hospital, Nanjing, China (April 1, 2016)

8. *University of British Columbia (Royal Columbia Hospital): Controversies in Peri-Operative Fluid Therapy: Divine Brines or Toxic Potables.* Departments of Surgery and Anesthesia Grand Rounds, Royal Columbia Hospital, Vancouver, Canada (April 25, 2013)
9. *Mayo Clinic (Rochester, MI): Fluid Overload: Iatrogenic but Inevitable?* Mayo Clinic Critical Care Visiting Professor Fellows Rounds, Rochester, Minnesota (September 27, 2012)
10. *Cambridge University: Furosemide in the Treatment of Early Acute Kidney Injury: The SPARK Trial.* Visiting Professor Rounds at Papworth Hospital NHS Foundation Trust, Cambridge, United Kingdom (September 3, 2011)
11. *University of Toronto: Renal Replacement Therapy: When to Start?* Visiting Professor Rounds at the University of Toronto, Department of Critical Care Medicine, Toronto, Canada (April 2011)
12. *McMaster University: Acute Kidney Injury in Critical Illness.* Critical Care Medicine Grand Rounds, McMaster University, Hamilton, Canada (November 2008)

INVITED ADDRESSES/LECTURES (298)

International

1. *Equipoise and Eligibility in the STARRT-AKI Trial.* AKI & CRRT 2022. **San Diego, USA** (March 10, 2022).
2. *COVID-19 and ICU Capacity.* AKI & CRRT 2022. **San Diego, USA** (March 10, 2022).
3. *CRRT in the Operating Theatre.* AKI & CRRT 2022. **San Diego, USA** (March 8, 2022).
4. *So When Do I Start RRT in the Critically Ill Adult Patient.* 51st Critical Care Congress (Virtual). **Puerto Rico, USA** (February 9, 2022).
5. *Intra-Dialytic Hypotension and Outcomes during Transition between RRT Modalities.* 31st Congreso Argentino e Internacional de Terapia Intensiva (eSATI) (Virtual). **Buenos Aires, Argentina** (November 12, 2021).
6. *Biomarkers as Predictors of Severe and Persistent AKI.* 31st Congreso Argentino e Internacional de Terapia Intensiva (eSATI) (Virtual). **Buenos Aires, Argentina** (November 12, 2021).
7. *Pragmatic Trials in AKI (Discussant).* 6th Kidney Disease Clinical Trialists (KDCT) Workshop (Virtual). **Washington, DC, USA** (October 29, 2021).
8. *Fluid Balance in STARRT-AKI: A Secondary Analysis.* 39th Vicenza Course on AKI & CRRT (Virtual). **Vicenza, Italy** (October 27, 2021).
9. *Renal Replacement Therapy in the ICU, What's New?* European Society of Intensive Care Medicine (ESICM) Webinar (Virtual) (October 21, 2021).
10. *Big Data and AKI: What Can We Expect?* 51st Congress Spanish Society of Nephrology (S.E.N.) (Virtual). **Madrid, Spain** (October 18, 2021).
11. *Timing of Initiation of RRT in AKI.* XXV Brazilian Congress of Intensive Care (e-CBMI) (Virtual). **Sao Paulo, Brazil** (November 14, 2020).
12. *Timing for RRT Initiation in AKI Patients.* 10th International Summit of CRRT Forum (Virtual). West China Hospital, **Chengdu, China** (November 7, 2020).
13. *AKI in COVID-19.* 30th Congreso Argentino e Internacional de Terapia Intensiva (eSATI) (Virtual). **Buenos Aires, Argentina** (November 4, 2020).
14. *Timing de TRR: Insights from STARRT-AKI.* 30th Congreso Argentino e Internacional de Terapia Intensiva (eSATI) (Virtual). **Buenos Aires, Argentina** (November 4, 2020).
15. *AKI: from Big Data to Bedside?* 38th Vicenza Course on AKI & CRRT (Virtual). **Vicenza, Italy** (November 4, 2020).

16. *What Does the STARRT-AKI Trial Suggest?* 38th Vicenza Course on AKI & CRRT (Virtual). **Vicenza, Italy** (November 3, 2020).
17. *Timing of RRT Initiation in AKI: Where Do We Stand.* American Society of Nephrology - Kidney Week (Virtual), **Denver, USA** (October 24, 2020).
18. *Strategies for Starting Renal Replacement Therapy: Insights from the STARRT-AKI Trial.* Asia Pacific Intensive Care Symposium (Virtual), **Singapore** (Oct 24, 2020).
19. *Dialysis: Early or Late? Insights from STARRT-AKI.* VIII International Symposium on Intensive Care Medicine (Virtual). **Sao Paulo, Brazil** (October 17, 2020).
20. *Persistent Critical Illness: When Patients are Trapped in the ICU.* AKI & CRRT 2020, **San Diego, USA** (Feb 26, 2020).
21. *Extracorporeal Therapies for Sepsis without AKI: Is This Approach Even Warranted?* American Society of Nephrology “Kidney Week” 2019, **Washington, USA** (November 10, 2019).
22. *The Case for Use of PMX-HP in Septic Shock.* Joint Congress of the International Society For Apheresis and Japanese Society for Apheresis, **Kyoto, Japan** (October 19, 2019).
23. *Frailty in Critical Illness: Outcomes and Cost Implications.* 2019 World Congress of Intensive Care, **Melbourne, Australia** (October 16, 2019).
24. *Progressing Your Research: The Publication Pathway.* 2019 World Congress of Intensive Care, **Melbourne, Australia** (October 15, 2019).
25. *When to Start and When to Stop RRT?* 2019 World Congress of Intensive Care, **Melbourne, Australia** (October 15, 2019).
26. *Strategies for Fluid Therapy in AKI Prevention and Care.* 2019 AKI Frontiers, **London, United Kingdom** (October 10, 2019).
27. *Hemodynamic Management of AKI: Recent Developments and Future Horizons.* 2019 AKI Frontiers, **London, United Kingdom** (October 10, 2019).
28. *RRT: What are the Unsolved Issues.* 37th Vicenza Course on AKI & CRRT, **Vicenza, Italy** (May 29, 2019).
29. *Initiation and Discontinuation of CRRT:* 37th Vicenza Course on AKI & CRRT, **Vicenza, Italy** (May 29, 2019).
30. *De-Resuscitation in ICU Patients with AKI.* AKI and CRRT 2019, **San Diego, USA** (February 28, 2019).
31. *Intraoperative CRRT: Strategies for Success.* AKI and CRRT 2019, **San Diego, USA** (February 28, 2019).
32. *What Benchmarks Should We Use for Measuring Quality in CRRT.* AKI and CRRT 2019, **San Diego, USA** (February 27, 2019).
33. *The Outcomes and Cost of Frailty in Critical Illness.* United Kingdom Intensive Care Society State of the Art Meeting 2018, **London, UK** (December 12, 2018).
34. *The Impact of Strained ICU Capacity.* United Kingdom Intensive Care Society State of the Art Meeting 2018, **London, UK** (December 12, 2018).
35. *RRT: When to Start.* United Kingdom Intensive Care Society State of the Art Meeting 2018, **London, UK** (December 11, 2018).
36. *Timely Debate in RRT in the ICU: Intensivist.* American Society of Nephrology Kidney Week, **San Diego, USA** (October 25, 2018).
37. *Strategies for Starting RRT In Critically Ill Patients with AKI.* American Society of Nephrology Kidney Week, **San Diego, USA** (October 24, 2018).
38. *What are the Important AKI Trials that Need to be Done?* 3rd International Symposium on AKI in Children, **Cincinnati, USA** (Oct 14, 2018)

39. *Financial Impact of AKI*. 3rd International Symposium on AKI in Children, **Cincinnati, USA** (Oct 14, 2018).
40. *What is New in Adult AKI Studies?* 3rd International Symposium on AKI in Children, **Cincinnati, USA** (Oct 13, 2018)
41. *Strained ICU Capacity*. VII Simposio International de Medicina Intensiva, **Sao Paulo, Brazil** (Aug 25, 2018).
42. *Health Care Professionals: Moral Distress and Burnout*. VII Simposio International de Medicina Intensiva, **Sao Paulo, Brazil** (Aug 24, 2018).
43. *Strategies for RRT Initiation*. VII Simposio International de Medicina Intensiva, **Sao Paulo, Brazil** (Aug 23, 2018).
44. *Frailty in Critical Illness: What's the Evidence*. VII Simposio International de Medicina Intensiva, **Sao Paulo, Brazil** (Aug 23, 2018).
45. *Strategies for Starting RRT in AKI*. 2nd East China Conference of Critical Care Medicine, **Shanghai, China** (July 6, 2018).
46. *Optimize the Management of Septic AKI Patients*. 2nd East China Conference of Critical Care Medicine, **Shanghai, China** (July 5, 2018).
47. *Quality Indicators of RRT in ICU*. Department of Intensive Care, Zhejiang Provincial People's Hospital, **Hangzhou, China** (July 5, 2018).
48. *Cutting Edge Research in CRRT*. Department of Intensive Care, Zhongda Hospital Southeast University, **Nanjing, China** (July 4, 2018).
49. *Renal Replacement Therapy in the ICU: When to Start*. 36th Vicenza Course on AKI & CRRT, **Vicenza, Italy** (June 13, 2018)
50. *Renal Replacement Therapy in the ICU: When to Stop*. 36th Vicenza Course on AKI & CRRT, **Vicenza, Italy** (June 13, 2018)
51. *Timing of Renal Replacement Therapy Trials in ICU*. 36th Vicenza Course on AKI & CRRT, **Vicenza, Italy** (June 13, 2018)
52. *Challenging Cases in ICU Nephrology*. 2018 Nephrology Update – Cleveland Clinic, **Cleveland, USA** (May 18, 2018).
53. *Loop Diuretics in the ICU: Liberal or Conservative*. 2018 Nephrology Update – Cleveland Clinic, **Cleveland, USA** (May 18, 2018).
54. *Strategies for Starting RRT in Critically Ill Patients with AKI*. 2018 Nephrology Update – Cleveland Clinic, **Cleveland, USA** (May 17, 2018).
55. *Is My ICU Patient Frail (...and does it really matter)?* 38th International Symposium on Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 23, 2018).
56. *RRT Practical Aspects: When to Start*. 38th International Symposium on Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 22, 2018).
57. *CRRT: Quality Indicators*. 38th International Symposium on Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 22, 2018).
58. *Forget the Evidence: When Do I Use Diuretics (Meet the Experts)*. AKI and CRRT 2018, **San Diego, USA** (March 9, 2018).
59. *Update from Ongoing and Late Breaking Trials: STARRT-AKI*. AKI and CRRT 2018, **San Diego, USA** (March 9, 2018).
60. *Can Big Data Drive Better Care for AKI? Leveraging Big Data in AKI and CRRT*. AKI and CRRT 2018, **San Diego, USA** (March 8, 2018).
61. *Terapia Diuretica en Insuficiencia Renal Aguda*. XXXIII Congress Joint Societies of Nephrology, **Puerto Varas, Chile** (October 20, 2017).
62. *Hepato-Renal Syndrome and Liver Failure in the ICU*. XXXIII Congress Joint Societies of Nephrology, **Puerto Varas, Chile** (October 20, 2017).

63. *Quality Indicators of AKI and CRRT*. XXXIII Congress Joint Societies of Nephrology, **Puerto Varas, Chile** (October 20, 2017).
64. *Hepato-Renal Syndrome and Liver Failure in the ICU*. 19th International Congress of the Polish Society of Anaesthesiology and Intensive Care, **Bydgoszcz, Poland** (September 16, 2017).
65. *Strategies for Starting Renal Replacement Therapy in Acute Kidney Injury*. 19th International Congress of the Polish Society of Anaesthesiology and Intensive Care, **Bydgoszcz, Poland** (September 16, 2017).
66. *Outcome of AKI: Any Improvement?* 9th ISICEM – Latin America, **Sao Paulo, Brazil** (June 16, 2017).
67. *Performance (Quality) Indicators of ICU*. 9th ISICEM – Latin America, **Sao Paulo, Brazil** (June 16, 2017).
68. *How Do We Measure Quality of AKI Care?* 9th ISICEM – Latin America, **Sao Paulo, Brazil** (June 15, 2017).
69. *Biomarkers in AKI: Are They Really Useful?* 9th ISICEM – Latin America, **Sao Paulo, Brazil** (June 15, 2017).
70. *Timing of Renal Replacement Therapy Initiation in Acute Kidney Injury*. 9th ISICEM – Latin America, **Sao Paulo, Brazil** (June 15, 2017).
71. *Management of Hepatic Failure*. National Kidney Foundation Spring Clinical Meetings 2017, **Orlando, Florida** (April 21, 2017).
72. *RRT Initiation Strategies*. National Kidney Foundation Spring Clinical Meetings 2017, **Orlando, Florida** (April 20, 2017).
73. *Hepatorenal Syndrome*. National Kidney Foundation Spring Clinical Meetings 2017, **Orlando, Florida** (April 18, 2017).
74. *Diuretic Use in ICU: Liberal or Conservative*. 37th International Symposium on Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 24, 2017).
75. *Quality Indicators in CRRT*. 37th International Symposium on Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 23, 2017).
76. *Indicators of Strained Capacity in the Intensive Care Unit*. 37th International Symposium on Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 21, 2017).
77. *Liver Failure in the ICU*. University of Toronto Critical Care Nephrology Day, **Toronto, Canada** (December 7, 2016).
78. *Strategies for Starting Renal Replacement Therapy in Acute Kidney Injury*. Polish Society of Anaesthesiology and Intensive Therapy, **Karpacz, Poland** (November 25, 2016)
79. *Impact of Frailty in Critically Ill Patients*. Polish Society of Anaesthesiology and Intensive Therapy, **Karpacz, Poland** (November 25, 2016).
80. *Type of Crystalloid Fluids in Acute Care Medicine*. Chinese Critical Care Congress 2016, **Dalian City, China** (September 23, 2016).
81. *Hepato-renal Syndrome*. Chinese Critical Care Congress 2016, **Dalian City, China** (September 23, 2016).
82. *Quality Improvement and AKI*. 2nd International Symposium on AKI in Children, **Cincinnati, USA** (June 26, 2016)
83. *Adult Patient Studies in Critical Care Nephrology*. 2nd International Symposium on AKI in Children, **Cincinnati, USA** (June 26, 2016)
84. *AKI in the Era of Big Data (Report from ADQI XV)*. 34th Vicenza Course on AKI & CRRT, **Vicenza, Italy** (June 8, 2016)
85. *Timing of RRT in AKI*. 34th Vicenza Course on AKI & CRRT, **Vicenza, Italy** (June 8, 2016)

86. *The Economic Impact of AKI*. 34th Vicenza Course on AKI & CRRT, **Vicenza, Italy** (June 8, 2016)
87. *Managing the Failing Liver and Kidney*. 2016 NKF Spring Clinical Meetings, **Boston, USA** (April 27, 2016).
88. *Implementation a “Care Bundle” for AKI: Can It Improve Outcomes?* 2016 NKF Spring Clinical Meetings, **Boston, USA** (April 27, 2016).
89. *Ethical Dilemmas: Should We Even Offer RRT in ESLD?* 2016 NKF Spring Clinical Meetings, **Boston, USA** (April 27, 2016).
90. *Advances in Critical Care: Hepatorenal Syndrome*. 2016 NKF Spring Clinical Meetings, **Boston, USA** (April 27, 2016).
91. *Quality of Care Issues in AKI*. 2016 AKI & CRRT Shanghai Forum, **Shanghai, China** (March 31, 2016).
92. *Renal Replacement Therapy – When to Start in AKI*. 2016 AKI & CRRT Shanghai Forum, **Shanghai, China** (March 31, 2016).
93. *AKI: Room for Improvement?* 36th International Symposium on Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 18, 2016).
94. *ICU Capacity: Strain and Impact on Health Care Providers*. 36th International Symposium on Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 17, 2016).
95. *Moral Distress and Burnout in Critical Care Providers*. 36th International Symposium on Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 16, 2016).
96. *The Frail Critically Ill Patients*. 36th International Symposium on Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 14, 2016).
97. *Aethlon Hemopurifier Cartridge for Ebola Virus Removal*. 45th Society of Critical Care Medicine Congress, **Orlando, USA** (February 21, 2016).
98. *Acute Kidney Injury: Pathophysiology, Etiology and Epidemiology*. 45th Society of Critical Care Medicine Congress, **Orlando, USA** (February 22, 2016).
99. *Salt Brines Are for Turkeys*. 45th Society of Critical Care Medicine Congress, **Orlando, USA** (February 21, 2016).
100. *Quality Assessment in the ICU: AKI & CRRT*. 2016 AKI & CRRT 2016, **San Diego, USA** (February 18, 2016).
101. *Lung Transplant and AKI*. 2016 AKI & CRRT 2016, **San Diego, USA** (February 17, 2016)
102. *Timing of RRT in AKI: Design of a Pragmatic Trial*. Round Table 2016: Pragmatic Trials in AKI, 2016 AKI & CRRT 2016, **San Diego, USA** (February 14, 2016).
103. *Can We Use Big Data for Pragmatic Trials?* Round Table 2016: Pragmatic Trials in AKI, 2016 AKI & CRRT 2016, **San Diego, USA** (February 14, 2016).
104. *The Frail Critically Ill Patient*. 25th Scottish Intensive Care Society, **St. Andrew’s Scotland** (January 22, 2016).
105. *Acute Kidney Injury*. 25th Scottish Intensive Care Society, **St. Andrew’s Scotland** (January 21, 2016).
106. *The Frail Critically Ill Patient*. Intensive Care Journal Club, Guy’s and St. Thomas’ Hospital, **London, UK** (January 20, 2016).
107. *The STARRT-AKI Trial*. London Intensive Care Group, **London, UK** (January 19, 2016).
108. *Renal Replacement Therapy – When to Start in AKI?* Vicenza Course on Critical Care Nephrology, **Vicenza, Italy** (June 10, 2015).
109. *AKI Care Bundles*. Chinese Society of Critical Care Medicine Congress, **Shanghai, China** (May 20, 2015).
110. *CRRT: Kidney Recovery and Health Economic Implications After AKI*. Chinese Society of Critical Care Medicine Congress, **Shanghai, China** (May 20, 2015).

111. *Outcomes for AKI Not Treated with RRT*, 2015 Spring Clinical Meetings, National Kidney Foundation, **Dallas, Texas** (March 29, 2015).
112. *Advanced Extracorporeal Techniques in the ICU*, 2015 Spring Clinical Meetings, National Kidney Foundation, **Dallas, Texas** (March 25, 2015).
113. *Hepato-Renal Syndrome*, 2015 Spring Clinical Meetings, National Kidney Foundation, **Dallas, Texas** (March 25, 2015).
114. *What is it exactly? – Hepato-renal syndrome*, 35th International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 20, 2015).
115. *Should we even offer RRT? – Hepato-renal syndrome*, 35th International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 20, 2015).
116. *We should start early – Continuous renal replacement therapy*, 35th International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 19, 2015).
117. *My ICU is full: Measuring and mitigating strain – How to improve ICU quality*, 35th International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 19, 2015).
118. *Long-term quality of life for the frail patient – After the ICU*, 35th International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 18, 2015).
119. *Fluid Therapy: Divine Brine or Toxic Potable*. Department of Medicine Grand Rounds, University of Alberta, **Edmonton, Canada** (March 13, 2015).
120. *Acute Kidney Injury as a Quality Paradigm*. CRRT 2015, **San Diego, USA** (February 18, 2015).
121. *STARRT-AKI*. CRRT 2015, **San Diego, USA** (February 19, 2015).
122. *Acute Kidney Injury bundles to guide protocol driven management*. Round Table, CRRT 2015, **San Diego, USA** (February 16, 2015).
123. *The Frail Critically Ill Patient*. Australia New Zealand Intensive Care Society (ANZICS) Annual Scientific Meeting, **Melbourne Australia** (October 11, 2014).
124. *Effects of RRT on Renal Recovery*. Recovery Task Force – AKI Section, European Society of Intensive Care Medicine Congress, **Barcelona, Spain** (September 30, 2014).
125. *Biomarkers of AKI: Can Biomarkers Guide the Timing of RRT?* European Society of Intensive Care Medicine Congress, **Barcelona, Spain** (September 30, 2014).
126. *Timing of Initiation of RRT in ICU*. European Society of Intensive Care Medicine Congress, **Barcelona, Spain** (September 30, 2014).
127. *Renal Replacement Therapy in the Decompensated Cirrhotic*. “Edge of Evidence”, American Thoracic Society, **San Diego, USA** (May 20, 2014).
128. *Long-term Association Between Frailty and Health-Related Quality-of-Life Among Survivors of Critical Illness*. “Edge of Evidence”, American Thoracic Society, **San Diego, USA** (May 20, 2014).
129. *Timing of Initiation of RRT in ICU*. Renal Support in the Critical Ill (Alfred Hospital), **Melbourne, Australia** (May 16, 2014).
130. *Renal Recovery After Acute Kidney Injury*. (Alfred Hospital), **Melbourne, Australia** (May 16, 2014).
131. *Loop Diuretics in Acute Kidney Injury*. Renal Support in the Critical Ill (Alfred Hospital), **Melbourne, Australia** (May 16, 2014).
132. *Are Diuretics Bad for the Kidney?* 34rd International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 20, 2014).
133. *Would Outcomes Be Worse Without RRT?* 34rd International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 20, 2014).

134. *The Patient is Too Frail (Denied Admission)*. 34th International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 18, 2014).
135. *Epidemiology of Renal Recovery: What Do We Know?* CRRT 2014, **San Diego, USA** (March 6, 2014).
136. *Economics of AKI*. CRRT 2014, **San Diego, USA** (March 6, 2014).
137. *STARRT-AKI: Initiation of Renal Support in AKI*. CRRT 2014, **San Diego, USA** (March 5, 2014).
138. *Effects of RRT on Renal Recovery*. Round Table, CRRT 2014, **San Diego, USA** (March 2, 2014).
139. *Optimal Time to Start Renal Replacement Therapy (STARRT-AKI)*. European Society of Intensive Care Medicine (AKI Section), **Paris, France** (October 8, 2013).
140. *Does Choice of RRT Affect Renal Recovery?* 1st International “Best of Brussels” Symposium on Intensive Care and Emergency Medicine, **Pune, India** (July 14, 2013).
141. *Resuscitation Targets: ScvO₂ versus Lactate*. 1st International “Best of Brussels” Symposium on Intensive Care and Emergency Medicine, **Pune, India** (July 14, 2013).
142. *Removing Bad Humours in the Liver Patient: Truths and Fallacies*: 1st International “Best of Brussels” Symposium on Intensive Care and Emergency Medicine, **Pune, India** (July 14, 2013).
143. *Preventing Renal Failure*. 1st International “Best of Brussels” Symposium on Intensive Care and Emergency Medicine, **Pune, India** (July 13, 2013).
144. *Mode of Continuous Therapy: Hemofiltration vs. Hemodialysis*. 31st International Vicenza Course on Critical Care Nephrology, **Vicenza, Italy** (June 12 2013).
145. *Urine Analysis in AKI*. 31st International Vicenza Course on Critical Care Nephrology, **Vicenza, Italy** (June 12 2013).
146. *Frailty in Critical Illness*. 18th Jornades de Medicina Intensiva de Primavera, **Porto, Portugal** (April 18 2013).
147. *The Challenge of Admitting Older Patients to Intensive Care*. 18th Jornades de Medicina Intensiva de Primavera, **Porto, Portugal** (April 18 2013).
148. *The Frail Patient: The Limits Of What We Can Provide*. 33rd International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 22 2013).
149. *Preventing Renal Failure: Postoperative complications*. 33rd International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 22 2013).
150. *Vasopressin in the hepatorenal syndrome*. 33rd International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 21 2013).
151. *Outcomes from acute kidney injury not treated with RRT*. 33rd International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 20 2013).
152. *In the Liver Patient (Removing Bad Humors: Truths and Fallacies)*. 33rd International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 19 2013).
153. *Troponin in the Peri-operative Period*. 33rd International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 19 2013).
154. *Update on the EUPHRATES trial*. CRRT 2013, **San Diego, USA** (February 15 2013).
155. *Septic versus Non-Septic AKI*. CRRT 2013, **San Diego, USA** (February 14 2013).
156. *How Should You Manage Oliguria?* CRRT 2013, **San Diego, USA** (February 14 2013).
157. *Preventing and Managing Complications of Dialysis 2: Operation, Fluids, Electrolytes, and Acid Base*. CRRT 2013, **San Diego, USA** (February 13 2013).
158. *CRRT Outcome Studies*. CRRT 2013, **San Diego, USA** (February 12 2013).

159. *Renal Biomarkers: Where Do We Stand?* CRRT Symposium, Rigshospitalet, **Copenhagen, Denmark** (January 21, 2013).
160. *Renal Recovery after Acute Kidney Injury.* CRRT Symposium, Rigshospitalet, **Copenhagen, Denmark** (January 21, 2013).
161. *Renal Biomarkers: Where Do We Stand?* Societe de Reanimation de Langue Francasie (SRLF), **Paris, France** (January 18, 2013).
162. *Renal Replacement Therapy: When to Start (and Stop)?* Societe de Reanimation de Langue Francasie (SRLF), **Paris, France** (January 18, 2013).
163. *Renal Recovery after Acute Kidney Injury.* Societe de Reanimation de Langue Francasie (SRLF), **Paris, France** (January 17, 2013).
164. *Fluid Therapy: Divine Brine or Toxic Potable?* Mayo Clinic Critical Care Grand Rounds, **Rochester, Minnesota** (September 27, 2012).
165. *Fluid Overload: Iatrogenic but Inevitable?* Mayo Clinic Critical Care Visiting Professor Fellows Rounds, **Rochester, Minnesota** (September 27, 2012).
166. *Current Clinical Trials in AKI – What Questions Are They Addressing?* 1st International Symposium on AKI in Children, **Cincinnati, Ohio** (September 28, 2012).
167. *Fluid is a Drug: Late Conservative Fluid Management?* 1st International Symposium on AKI in Children, **Cincinnati, Ohio** (September 28, 2012).
168. *Sepsis and Acute Kidney Injury.* Actual Aspects of Extracorporeal Blood Purification in Intensive Care, **Moscow, Russia** (June 2 2012).
169. *Rationale for Use of Loop Diuretics in the Critically Ill.* Actual Aspects of Extracorporeal Blood Purification in Intensive Care, **Moscow, Russia** (June 3 2012).
170. *Novel Biomarkers for Early Prediction of AKI.* American Thoracic Society, **San Francisco, USA** (May 2012).
171. *The Clinical Consequences of Edema* International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 2012).
172. *Fluid Accumulation, Renal Injury and Outcome.* International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 2012).
173. *The Frailty Patient.* International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 2012).
174. *Renal Recovery After AKI.* International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 2012).
175. *Novel Biomarkers for AKI.* International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 2012).
176. *CRRT Outcome Studies.* CRRT 2012, **San Diego, USA** (February 2012).
177. *Fluids and Solutions in the Critically Ill 2: Solutions for CRRT.* CRRT 2012, **San Diego, USA** (February 2012).
178. *The Changing Face of AKI: CANADA.* CRRT 2012, **San Diego, USA** (February 2012)
179. *Comparing RRT Modalities: Does It Matter What You Use If the Job Is Done.* CRRT 2012, **San Diego, USA** (February 2012).
180. *The Use of Diuretics in Acute Kidney Injury.* American Society of Nephrology Conference, **Philadelphia, USA** (November 2011).
181. *Dialing in the Numbers: Designing Rational Replacement Fluids in CRRT.* American Society of Nephrology Conference, **Philadelphia, USA** (November 2011).
182. *Furosemide in the Treatment of Early Acute Kidney Injury: The SPARK Trial.* Visiting Professor Rounds at Papworth Hospital NHS Foundation Trust, **Cambridge, United Kingdom** (September 2011).

183. *Renal Replacement Therapy in ICU: Are We Starting Too Late?* Round Table Conference: Controversies in Acute Kidney Injury. International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 2011).
184. *Extracorporeal Therapies in Sepsis*. International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 2011).
185. *Renal Replacement Therapy: When to Start?* International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 2011).
186. *Renal Replacement Therapy: Antimicrobial Dosing*. International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 2011).
187. *Frailty in Critical Illness*. International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 2011).
188. *Recover from Organ Failure*. International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium** (March 2011).
189. *Prevention of Acute Kidney Injury*. 40th Critical Care Congress, **San Diego, USA** (January 2011).
190. *Timing of Initiation of Renal Support*, Chinese Society of Critical Care Medicine, **Beijing, China** (October 2010).
191. *Novel Extracorporeal Therapies in Sepsis*, Chinese Society of Critical Care Medicine, **Beijing, China** (October 2010).
192. *What We Know of Acute Kidney Injury in Australasian ICUs*, 2010 Australia and New Zealand College of Intensive Care Medicine Annual Scientific Meeting, **Sydney, Australia** (June 2010).
193. *Diuretics for Prevention of Contrast-Induced Nephropathy*, 2010 Australia and New Zealand College of Intensive Care Medicine Annual Scientific Meeting, **Sydney, Australia** (June 2010).
194. *High Volume Hemofiltration*, 2010 Australia and New Zealand College of Intensive Care Medicine Annual Scientific Meeting, **Sydney, Australia** (June 2010).
195. *Acute Kidney Injury and Sepsis*, 2010 Australia and New Zealand College of Intensive Care Medicine Annual Scientific Meeting, **Sydney, Australia** (June 2010).
196. *Pharmacology and Renal Replacement Therapy*, 2010 Australia and New Zealand College of Intensive Care Medicine Annual Scientific Meeting, **Sydney, Australia** (June 2010).
197. *Next Key Trials in Acute Kidney Injury: The SPARK Study*, 2010 Australia and New Zealand College of Intensive Care Medicine Annual Scientific Meeting, **Sydney, Australia** (June 2010).
198. *Epidemiology of Cardio-Renal Syndromes*, 19th International Vicenza Course on Critical Care Nephrology, **Vicenza, Italy** (June 2010).
199. *Urine Abnormalities in Septic Acute Kidney Injury*, 19th International Vicenza Course on Critical Care Nephrology, **Vicenza, Italy** (June 2010).
200. *Trials in Acute Kidney Injury: The SPARK Study*, 19th International Vicenza Course on Critical Care Nephrology, **Vicenza, Italy** (June 2010).
201. *Infusions, Urine Output, And Renal Function – The New Insights*, 8th World Congress on Trauma, Shock, Inflammation and Sepsis, **Munich, Germany** (March 2010).
202. *Aspects of Providing RRT - Dose, Frequency, Clearance and Volume Removal, Renal Replacement Therapy For Intensivists*, 39th Critical Care Congress, **Miami, USA** (January 2010).
203. *Use of Intermittent Versus Continuous Diuretic Therapy, Rage Against The Machine: Nondialytic Volume Management*, 39th Critical Care Congress, **Miami, USA** (January 2010)

204. *Diagnosis of AKI: Reconciliation of AKIN and RIFLE*, American Society of Nephrology Conference, **San Diego, USA** (November 2009).
205. *Renal Recovery and Repair*, World Federation of Intensive and Critical Care Medicine Congress, **Florence, Italy** (August 2009).
206. *NGAL in Critical Illness: Sepsis, Renal Support and Mortality*. Scientific Symposium on Biomarkers in Acute Kidney Injury, **Prague, Czech Republic** (March 2009).
207. *AKI: Initiation of Renal Replacement Therapy*, Department of Nephrology, Dialysis and Transplantation Grand Rounds, San Bortolo Hospital, **Vicenza, Italy** (September 2008)
208. *Antimicrobial Dosing in Continuous Renal Replacement Therapy*, II Symposium Intensive Care Medicine, **Sao Paulo, Brazil** (June 2008).
209. *Timing of Initiation of Renal Replacement Therapy*, II Symposium Intensive Care Medicine, **Sao Paulo, Brazil** (June 2008).
210. *Loop Diuretics in Acute Kidney Injury*, II Symposium Intensive Care Medicine, **Sao Paulo, Brazil** (June 2008).
211. *Septic Acute Kidney Injury*, II Symposium Intensive Care Medicine, **Sao Paulo, Brazil** (June 2008).
212. *Epidemiology of Septic Acute Kidney Injury*, 3rd Australasian Critical Care Nephrology Symposium, **Melbourne, Australia** (November 2007).
213. *Prophylactic Amiodarone For Prevention Of Post-Cardiac Surgery Atrial Fibrillation*, Anaesthesia Grand Rounds, Austin Hospital, **Melbourne, Australia** (January 2007).
214. *Epidemiology of Acute Kidney Injury in Australia*, 3rd Australasian Critical Care Data Linkage for Long Term Outcomes in ICU, ICU Grand Rounds, Royal Perth Hospital, **Perth, Australia** (November 2006).
215. *Renal Blood Flow in Septic Acute Renal Failure*, Cardiology Grand Rounds, Austin Hospital, **Melbourne, Australia** (March 2006).

National

216. *Around the World in 30 Minutes: Oxygen Therapy (Moderator)*. Critical Care Canada Forum (Virtual), **Toronto, Canada** (December 8, 2021).
217. *Oxygen Therapy During Mechanical Ventilation*. Critical Care Canada Forum (Virtual), **Toronto, Canada** (December 8, 2021).
218. *COVID-19 Public Health Measures and Critical Care Utilization in Alberta*. Critical Care Canada Forum (Virtual), **Toronto, Canada** (December 8, 2021).
219. *Frailty: Does It Really Matter?* Critical Care Canada Forum, **Toronto, Canada** (November 13, 2019).
220. *Strained Capacity: What Can We Do?* Critical Care Canada Forum, **Toronto, Canada** (November 13, 2019).
221. *ICU Strain: Causes and Impact*. Critical Care Canada Forum, **Toronto, Canada** (October 4, 2017).
222. *The Frail and At-Risk Critically Ill: Screening and Outcomes*. Critical Care Canada Forum, **Toronto, Canada** (October 2, 2017).
223. *Moral Distress and Burnout: Clinicians*. Critical Care Canada Forum, **Toronto, Canada** (October 2, 2017).
224. *Strategies for When to Start Renal Replacement Therapy in Acute Kidney Injury*. Regina General Hospital – Provincial Nephrology Rounds, **Regina, Saskatchewan** (April 28, 2017).
225. *Unnecessary Renal Replacement Therapy in Critically Ill Patients with Acute Kidney Injury*. Regina General Hospital Rounds, **Regina, Saskatchewan** (April 27, 2017).

226. *Impact of Frailty in Critical Illness*. 36th Annual Scientific Meeting of the Canadian Geriatric Society, **Vancouver, BC** (April 16, 2016).
227. *Renal Replacement Therapy – When to Start in AKI*. Critical Care Ground Rounds, Surrey Memorial Hospital, **Vancouver, BC** (April 15, 2016).
228. *Hyperoxia and Hypertonic Saline in Septic Shock (HYPER2S RCT) Editorial Comment*. Critical Care Canada Forum, **Toronto, Canada** (October 28, 2015).
229. *I Suggest...Abnormal Saline*. Critical Care Canada Forum, **Toronto, Canada** (October 27, 2015).
230. *ICU Strain: Perception of Health Care Providers*. Critical Care Canada Forum, **Toronto, Canada** (October 27, 2015).
231. *Frailty Among the Critically Ill*. 3rd Annual TVN Conference, **Toronto, Canada** (September 28, 2015).
232. *Update on CRRT in AKI in ICU*. Critical Care Grand Rounds, Nanaimo Regional General Hospital, **Nanaimo, Canada** (September 24, 2015).
233. *Update on RRT for AKI in ICU*, Kelowna General Hospital Critical Care Grand Rounds, **Kelowna, BC** (May 1, 2015).
234. *Are Diuretics Bad for the Kidney in AKI?* Critical Care Canada Forum, **Toronto, Canada** (October 30, 2014).
235. *Renal Replacement Therapy – When to Start in AKI*. Critical Care Canada Forum, **Toronto, Canada** (October 30, 2014).
236. *Approaching End of Life Care in the Elderly*. Critical Care Canada Forum, **Toronto, Canada** (November 11, 2013).
237. *Viewpoint: Fluid is a Drug*, Critical Care Canada Forum, **Toronto, Canada** (November 10, 2013).
238. *Frailty: It's Even More Important Than You Think* (Fellow's Day) Critical Care Canada Forum, **Toronto, Canada** (November 9, 2013).
239. *Controversies in Peri-Operative Fluid Therapy: Devine Brines or Toxic Potables*. Departments of Surgery and Anesthesia Grand Rounds, Royal Columbia Hospital, **Vancouver, Canada** (April 25 2013).
240. *Fluid Accumulation in Critical Illness: Less is More*. Critical Care Canada Forum, **Toronto, Canada** (October 29, 2012).
241. *Frailty in Critical Illness*. Critical Care Canada Forum, **Toronto, Canada** (October 30, 2012).
242. *Scratching the Surface: "Subclinical" Acute Kidney Injury*. Critical Care Canada Forum, **Toronto, Canada** (October 30, 2012).
243. *Diuretics in Acute Kidney Injury*. Canadian Critical Care Forum, **Toronto, Canada** (November 2011).
244. *Hyponatremia in the Critical Care Setting: What Does It Look Like?* Canadian Critical Care Forum, **Toronto, Canada** (November 2011).
245. *Renal Replacement Therapy: When to Start?* Visiting Professor Rounds at the University of Toronto, Department of Critical Care Medicine, **Toronto, Canada** (April 2011).
246. *Update on Acute Kidney Injury in the ICU*. 8th Annual Canadian Critical Care Conference, **Whistler, Canada** (February 2011).
247. *Update on Renal Replacement Therapy in the ICU*. 8th Annual Canadian Critical Care Conference, **Whistler, Canada** (February 2011).
248. *Renal Support: Does Timing Matter?* Canadian Critical Care Forum, **Toronto, Canada** (November 2010).

249. *Epidemiology of Cardio-Renal Syndromes*, The Heart and Kidney Interface and the Cardio-Renal Syndrome, International Society of Hypertension, **Vancouver, Canada** (September 2010).
250. *Acute Kidney Injury in Critical Illness*, Critical Care Medicine Grand Rounds, McMaster University, **Hamilton, Canada** (November 2008).
251. *Novel Extracorporeal Therapies*, Critical Care Nephrology Symposium, Canadian Critical Care Forum, **Toronto, Canada** (November 2008).
252. *NaHCO₃ for Renal Protection in Cardiac Surgery*. 2009 TRIBE-Acute Kidney Injury Scientific Meeting, **Toronto, Canada** (October 2009).
253. *Novel Extracorporeal Therapies in Critical Illness*, Canadian Critical Care Forum, **Toronto, Canada** (October 2009).
254. *Antimicrobial Dosing During Renal Support*, Canadian Critical Care Forum, **Toronto, Canada** (October 2009).
255. *CRRT vs. IHD/SLED*, Critical Care Nephrology Symposium, Canadian Critical Care Forum, Toronto, Canada (November 2008).
256. *The Septic Kidney: Bench to Bedside*, ICU Grand Rounds, St. Michael's Hospital, **Toronto, Canada** (May 2006).
257. *The Septic Kidney: Bench to Bedside*, ICU Grand Rounds, Vancouver General Hospital, **Vancouver, Canada** (May 2006).

Regional/Local

258. *Pandemic COVID-19 Lockdown and Critical Care Utilization*. Department of Critical Care Medicine Grand Rounds. University of Alberta, **Edmonton, Canada** (September 7, 2021).
259. *Strategies for Starting RRT: Insights from STARRT-AKI*. Department of Critical Care Medicine Grand Rounds. University of Alberta, **Edmonton, Canada** (October 13, 2020).
260. *Persistent Critical Illness: When Patients are Trapped in the ICU*. 31st Annual Alberta Society of Intensive Care Physicians Meeting, **Lake Louise, Canada** (January 18, 2019)
261. *Is My ICU Patient Frail (...and Does It Really Matter)?* Western Canada Nutrition Day, **Edmonton, Canada** (October 20, 2018)
262. *Strained ICU Capacity*. Department of Critical Care Medicine Grand Rounds, Faculty of Medicine and Dentistry, University of Alberta, **Edmonton, Canada** (September 4, 2018).
263. *Pragmatism in Clinical Trials: The Challenges and Opportunities*. Clinical Research Seminar Series, Faculty of Medicine and Dentistry, University of Alberta, **Edmonton, Canada** (June 26, 2018)
264. *PEPTIC Study and Pragmatic Trials in Alberta*. Annual Alberta Society of Intensive Care Physicians Winter Meeting, **Lake Louise, Canada** (January 19, 2018)
265. *Is My ICU Patient Frail (...and does it really matter)?* Annual Alberta Society of Intensive Care Physicians Winter Meeting, **Lake Louise, Canada** (January 19, 2018)
266. *Peri-Operative AKI: Is It Really an Issue?* Department of Anesthesia and Pain Medicine Grand Rounds, University of Alberta, **Edmonton, Canada** (November 22, 2017)
267. *Is My ICU Patient Frail (...and does it really matter)?* Department of Critical Care Medicine Grand Rounds, University of Alberta, **Edmonton, Canada** (November 21, 2017)
268. *Frailty in Cardiac Surgery*. Annual Cardiac Surgery Update, Mazankowski Alberta Heart Institute, **Edmonton, Canada** (November 17, 2017).
269. *The Critical Care Strategic Clinical Network & You: Enhancing Patient Care Through Research and Innovation*. Department of Critical Care Medicine Grand Rounds, University of Alberta, **Edmonton, Canada** (November 16, 2017).

270. *Moral Distress and Burnout Among Critical Care Providers*. Department of Critical Care Medicine Grand Rounds, **Edmonton, Canada** (September 13, 2016).
271. *Moral Distress and Burnout Among Health Care Providers in CVICU*. Mazankowski Alberta Heart Institute Grand Rounds, **Edmonton, Canada** (November 24, 2015).
272. *Crystalloids in Acute Care: Wolves in Sheep's Clothing*. Paramedicine Across Canada Expo (PACE), **Edmonton, Canada** (October 1, 2015)
273. *The Frail Critically Ill Patients*, Department of Critical Care Medicine Grand Rounds, Cummings School of Medicine, **Calgary, Canada** (September 23, 2015).
274. *Crystalloids in Acute Care: Wolves in Sheep's Clothing*. Critical Care Grand Rounds, Lethbridge Chinook Regional Hospital, **Lethbridge, Canada** (September 18, 2015).
275. AKI in the Era of Big Data – 15th ADQI Consensus Conference, **Banff, Canada** (September 6, 2015).
276. *The Frail Critically Ill Patient*. Division of Critical Care Grand Rounds, **Edmonton, Alberta** (September 23, 2014).
277. *Sepsis and Acute Kidney Injury*. Calgary CRRT Education Symposium, **Calgary, Alberta** (June 12, 2014).
278. *Acute Kidney Injury: Epidemiology and Pathophysiology*. Calgary CRRT Education Symposium, **Calgary, Alberta** (June 12, 2014).
279. *The Frail Critically Ill Patient*. Misericordia Medicine Grand Rounds, **Edmonton, Alberta** (April 17, 2014).
280. *The Frail Critically Ill Patient*. 26th Annual ASICP Lake Louise Winter Meeting, **Lake Louise, Alberta** (January 24, 2014).
281. *Renal Support for the Critically Ill Patient*. 1st Annual Edmonton Critical Care Symposium, **Edmonton, Canada** (November 9, 2012).
282. *Frailty in Critical Illness*. Inter-Disciplinary Cardiac Sciences Rounds. **Edmonton, Canada** (October 12, 2012).
283. *Fluid Therapy: Devine Brine or Toxic Potable?* Cardiac and Anesthesia Combined Rounds, **Edmonton, Canada** (April 2012).
284. *Frailty in Cardiac Surgery*. Quality and Cardiac Service Integration Rounds, **Edmonton, Canada** (March 2012).
285. *Frailty in Cardiac Surgery*. Cardiac Surgery Grand Rounds, **Edmonton, Canada** (January 27, 2012).
286. *Frailty in Critical Illness*, CACCN “Updates in Critical Care - Protocols and Practices” Symposium, **Edmonton, Canada** (November 2011).
287. *Heart-Kidney Interaction*. Division of Cardiology Grand Rounds, Mazankowski Alberta Heart Institute, **Edmonton, Canada** (March 2011)
288. *Intra-Operative Renal Support During Liver Transplantation: A Matched Control Study*, Liver Transplant Program Retreat, **Edmonton, Canada** (November 2010).
289. *METamorphosis: Documentation and Data*, Rapid Response System Retreat, **Edmonton, Canada** (June 2010).
290. *Timing of Initiation of Renal Support in Critical Illness*, 2010 Edmonton AKI Symposium, **Edmonton, Canada** (April 2010).
291. *Antimicrobial Dosing During Renal Support*, 2010 Edmonton AKI Symposium, **Edmonton, Canada** (April 2010).
292. *Cardio-Renal Syndromes*, 2010 Edmonton AKI Symposium, **Edmonton, Canada** (April 2010).
293. *Acute Kidney in Cardiac Surgery*, Cardiovascular Surgery Intensive Care Unit Resident Round, **Edmonton, Canada** (January 2010).

294. *Renal Recovery and Repair*, Division of Critical Care Medicine Grand Rounds, University of Alberta, **Edmonton, Canada** (October 2009).
295. *To MARS and Beyond: Liver Support in ICU*, Canadian Association of Critical Care Nurses Conference, **Edmonton, Canada** (June 2009).
296. *Renal Support for the Critically Ill Patients*, Canadian Society of Nephrology Conference, **Edmonton, Canada** (May 2009).
297. *ARDS and Oscillation*, CACCN “Updates in Critical Care - Protocols and Practices” Symposium, **Edmonton, Canada** (November 2008).
298. *Caterpillar Envenomation: Lessons from Adventure Travel*, Critical Care, Trauma, Burns Nursing Symposium, **Edmonton, Canada** (August 2008).
299. *Acute Kidney Injury: Timing of implementation of renal replacement therapy*, Edmonton CRRT Symposium, **Edmonton, Canada** (November 2007).
300. *Continuous Renal Replacement Therapy Is Superior*, Edmonton CRRT Symposium, **Edmonton, Canada** (November 2007).
301. *The Septic Kidney: Bench to Bedside*, ICU Grand Rounds, University of Alberta Hospital, **Edmonton, Canada** (May 2006).
302. *Renal Replacement Therapy in Acute Kidney Injury: Does Timing Matter?* Alberta Society of Intensive Care Physicians, **Lake Louise, Canada** (January 2011).
303. *The Septic Kidney: Bench to Bedside*, ICU Grand Rounds, Foothills Medical Centre, **Calgary, Canada** (May 2006).
304. *Clinical Nephrology: A Primer for Nurse Clinicians*, Foothills Medical Centre, **Calgary, Canada** (May 2005).
305. *Evidence-Based Medicine: Applying Evidence in Clinical Practice*, Post-Graduate Medical Education Course, Faculty of Medicine, University of Calgary, **Calgary, Canada** (September 2004).
306. *Introduction to Evidence-based Medicine*, Internal Medicine Residency Training Program, University of Calgary, **Calgary, Canada** (September 2003).
307. *Acid-Base Disorders*, Dietician Rounds, Peter Lougheed Centre, **Calgary, Canada** (October 2002).
308. *Contrast-Induced Nephropathy*, Medical Grand Rounds, Peter Lougheed Centre, **Calgary, Canada** (October 2002).
309. *Trauma and Emergency Medicine in South Africa*, Towards a New Health for All in the 21st Century Conference on International Health, **Calgary, Canada** (May 1999).

INTERVIEWS and MEDIA RELATIONS:

TV Interviews

1. Shaw TV: Heart Pledge Day – Mazankowski Alberta Heart Institute. Cardiovascular Surgical Intensive Care Unit Capacity (Feb 27, 2013) (Available at: <https://www.youtube.com/watch?v=OPAsinz1lmg>).
2. CTV Evening News: Stepping on venomous caterpillars fatal for tourist (Oct 2, 2008)

Print/Online Media

1. CHED 630 Radio Interview on Ryan Jespersen. Nov 8, 2017. Podcast available at: Show https://omny.fm/shows/ryan-jespersen-show/nov-8-jespersen-10-treating-patients-as-health-con?in_playlist=ryan-jespersen-show!podcast#sharing
2. National Post: How patient stories can improve intensive care? Jan 24, 2018. Available at: <http://nationalpost.com/pmnn/news-pmnn/how-patient-stories-can-improve-intensive-care>

3. The Conversation: How patient stories can improve intensive care? Jan 23, 2018. Available at: <https://theconversation.com/how-patient-stories-can-improve-intensive-care-88210>
4. Featured Expert, New England Journal of Medicine Group Open Forum focused on “Initiation Strategies for Renal Replacement Therapy in the Intensive Care Unit (July 5, 2016).
5. Canadian Press: Stepping on venomous caterpillars fatal for tourist (July 14, 2008) (Available at: <http://www.ctvnews.ca/stepping-on-venomous-caterpillars-fatal-for-tourist-1.308568>)
6. Health Solutions (Summer 2012) - Alberta Innovates – Health Solutions Impact Stories: Timing is Everything (Jul 1, 2012) (Available at: <http://www.aihealthsolutions.ca/news-and-events/impact-story/timing-is-everything/>)
7. EurekAlert! AAAS. Award-winning University of Alberta researcher measures frailty in intensive care units. Ross Getz (Oct 3, 2014). (Available at: http://www.eurekalert.org/pub_releases/2014-10/uoaf-aur100314.php)
8. Health Management (Volume 13; Issue 1; Spring 2013): The Kidney as the Protagonist: An Interview with Dr. Sean Bagshaw (Available at: <https://healthmanagement.org/c/icu/issuearticle/the-kidney-as-the-protagonist-an-interview-with-dr-sean-bagshaw>)
9. Baxter Educational Video: Acute Kidney Injury (AKI) and Long-Term Dialysis Dependence: Interview with Dr. Clark and Dr. Bagshaw (May 17, 2013) (Available at: <http://crrtcounts.com/videos/>)
10. Baxter Educations Webinar: Timing of Renal Support Initiation in AKI (Available at: <http://crrtcounts.com/videos/>)
11. MedPage Today. Frail ICU Patients Face Higher Risks. Sarah Wickline (Nov 26, 2013). (Available at: <http://www.medpagetoday.com/CriticalCare/GeneralCriticalCare/43125>)
12. Alberta Innovates – Health Solutions Media Center: Looking at the Big Picture: Measuring ICU Strain in Alberta (Aug 6, 2015) (Available at: <http://www.aihealthsolutions.ca/news-and-events/media-centre/looking-at-the-big-picture-measuring-icu-strain-in-alberta/>)

Podcasts/YouTube

1. Society of Critical Care Medicine (SCCM) PodCast (Pod-291): Long-Term Association Between Frailty and Health Related Quality of Life Among Survival Of Critical Illness. Interview with Dr. Michael Weinstein (Available at: <http://www.sccm.org/Communications/iCritical-Care/Pages/Critical-Care-Medicine.aspx>; <http://www.sccm.org/Podcasts/SCCMPod291.mp3>)
2. Australia New Zealand Intensive Care Society Annual General Meeting YouTube Video: Plenary Lecture – Frailty in Critical Care (Nov 11, 2014). (Available at: <https://www.youtube.com/watch?v=3QKcuf-Mhs>)

PUBLICATIONS (trainees underlined)

<u>Totals:</u>	Papers in peer-review journals:	466
	Editorials:	18
	Published Correspondence	13
	Edited Books	1
	Book chapters:	31
	Monographs:	6
	Abstracts:	119

Citation Report (Google Scholar) (May 3, 2022):

Total citations:	42,298
h-index	102
i10-index	353

<https://pubmed.ncbi.nlm.nih.gov/>

Papers in Peer-Reviewed Journals (466)

1. Opgenorth D, Reil E, Lau V, Fraser N, Zuege D, Wang X, **Bagshaw SM**, Rewa O. Improving the quality of the performance and delivery of continuous renal replacement therapy (CRRT) to critically ill patients across a healthcare system: QUALITY CRRT: a study protocol. *BMJ Open* 2022; 12(2):e054583 (doi: 10.1136/bmjopen-2021-054583) (PMID: 35121604).
2. Thompson Bastin ML, Stromberg AJ, Nerusu SN, Liu LJ, Mayer KP, Liu KD, **Bagshaw SM**, Wald R, Morris PE, Neyra JA. Association of Phosphate-Containing versus Phosphate-Free Solutions on Ventilator Days in Patients Requiring Continuous Kidney Replacement Therapy. *Clin J Am Soc Nephrol* 2022: Epub: Apr 27:CJN.12410921 (doi: 10.2215/CJN.12410921; PMID: 35477673).
3. Cardoso FS, Fidalgo P, **Bagshaw SM**, Gottfried M, Tujios S, Olson JC, Lee WM, Karvellas CJ; U.S. Acute Liver Failure Study Group. Persistent But Not Transient Acute Kidney Injury Was Associated With Lower Transplant-Free Survival in Patients With Acute Liver Failure: A Multicenter Cohort Study. *Crit Care Med* 2022: Epub Apr 21 (doi: 10.1097/CCM.0000000000005563; PMID: 35446272).
4. Bowker SL, Williams K, Wingert A, Boyd JM, Potestio ML, Gates M, Wright E, **Bagshaw SM**. Incidence and outcomes of critical illness in Indigenous Peoples: a systematic review protocol. *Syst Rev.* 2022;11(1):65 (doi: 10.1186/s13643-022-01948-x; PMID: 35418109).
5. REMAP-CAP Writing Committee for the REMAP-CAP Investigators, Bradbury CA, Lawler PR, Stanworth SJ, McVerry BJ, McQuilten Z, Higgins AM, Mouncey PR, Al-Beidh F, Rowan KM, Berry LR, Lorenzi E, Zarychanski R, Arabi YM, Annane D, Beane A, van Bentum-Puijk W, Bhimani Z, Bihari S, Bonten MJM, Brunkhorst FM, Buzgau A, Buxton M, Carrier M, Cheng AC, Cove M, Detry MA, Estcourt LJ, Fitzgerald M, Girard TD, Goligher EC, Goossens H, Haniffa R, Hills T, Huang DT, Horvat CM, Hunt BJ, Ichihara N, Lamontagne F, Leavis HL, Linstrum KM, Litton E, Marshall JC, McAuley DF, McGlothlin A, McGuinness SP, Middeldorp S, Montgomery SK, Morpeth SC, Murthy S, Neal MD, Nichol AD, Parke RL, Parker JC, Reyes LF, Saito H, Santos MS, Saunders CT, Serpa-Neto A, Seymour CW, Shankar-Hari M, Singh V, Tolppa T, Turgeon AF, Turner AM, van de Veerdonk FL, Green C, Lewis RJ, Angus DC, McArthur CJ, Berry S, Derde LPG, Webb SA, Gordon AC. Effect of Antiplatelet Therapy on Survival and Organ Support-Free Days in Critically Ill Patients With COVID-19: A Randomized Clinical Trial. *JAMA* 2022;327(13):1247-1259 (doi: 10.1001/jama.2022.2910; PMID: 35315874).
6. Chan RJ, Beaubien-Souligny W, Silver SA, **Bagshaw SM**, Wald R, Brown PA, Hiremath S, Kong JWY, Clark EG. The Use of I.V. Albumin During Kidney Replacement Therapy: A Survey of Nephrologists and Intensivists. *Kidney Int Rep* 2021;7(3):614-617 (doi: 10.1016/j.ekir.2021.11.031; PMID: 35257074).
7. Opgenorth D, Baig N, Fiest K, Karvellas C, Kutsogiannis J, Lau V, Macintyre E, Senaratne J, Slemko J, Sligl W, Wang X, **Bagshaw SM**, Rewa OG. LIBERATE: a study protocol for midodrine for the early liberation from vasopressor support in the intensive care unit

- (LIBERATE): protocol for a randomized controlled trial. *Trials*. 2022;23(1):194 (doi: 10.1186/s13063-022-06115-0; PMID: 35246227).
8. van Diepen S, Coulson T, Wang X, Opgenorth D, Zuege DJ, Harris J, Agyemang M, Niven DJ, Bellomo R, Wright SE, Young PJ, **Bagshaw SM**, PEPTIC study investigators and the ANZICS Clinical Trials Group. Efficacy and safety of proton pump inhibitors versus histamine-2 receptor blockers in the cardiac surgical population: insights from the PEPTIC trial. *Eur J Cardiothorac Surg*. 2022;ezac124 (doi: 10.1093/ejcts/ezac124; PMID: 35213716).
 9. Wu G, Soo A, Ronksley P, Holryd-Leduc J, **Bagshaw SM**, Wu Q, Quan H, Stelfox HT. A multicenter cohort study of falls among patients admitted to the ICU. *Crit Care Med* 2022: ePub Jan 7 (doi: 10.1097/CCM.0000000000005423) (PMID: 34995212).
 10. Lau VI, Binnie A, Basmaji J, Baig N, Opgenorth D, Cameron S, O'Hearn K, McDonald E, Senaratne J, Sligl W, Zuege DJ, Rewa O, **Bagshaw SM**, Tsang J. Needs Assessment Survey Identifying Research Processes Which may be Improved by Automation or Artificial Intelligence: ICU Community Modeling and Artificial Intelligence to Improve Efficiency (ICU-Comma). *J Intensive Care Med* 2021: ePub Dec 13:8850666211064844 (doi: 10.1177/08850666211064844) (PMID: 34898324).
 11. Slemko JM, Daniels VJ, **Bagshaw SM**, Ma IWY, Brindley PG, Buchanan BM. Critical care ultrasound training: a survey exploring the "education gap" between potential and reality in Canada. *Ultrasound J* 2021; 13(1):48 (doi: 10.1186/s13089-021-00249-z) (PMID: 34897552).
 12. Ling L, **Bagshaw SM**, Villeneuve PM. Guillain-Barré syndrome after SARS-CoV-2 vaccination in a patient with previous vaccine-associated Guillain-Barré syndrome. *CMAJ*. 2021 Nov 22;193(46):E1766-E1769 (doi: 10.1503/cmaj.210947) (PMID: 34810163).
 13. Jeong R, Wald R, **Bagshaw SM**. Timing of renal-replacement therapy in intensive care unit-related acute kidney injury. *Curr Opin Crit Care* 2021;27(6):573-581 (doi: 10.1097/MCC.0000000000000891).
 14. Fiest KM, Krewulak KD, Makuk K, Jaworska N, Hernández L, **Bagshaw SM**, Burns KE, Cook DJ, Doig CJ, Fox-Robichaud A, Fowler RA, Kho ME, Parhar KKS, Rewa OG, Rochweg B, Sept BG, Soo A, Spence S, West A, Stelfox HT, Parsons Leigh J. A Modified Delphi Process to Prioritize Experiences and Guidance Related to ICU Restricted Visitation Policies During the Coronavirus Disease 2019 Pandemic. *Crit Care Explor* 2021;3(10):e0562. doi: 10.1097/CCE.0000000000000562 (PMID: 34712955).
 15. Trumble DE, DeVries J, Reil E, Wang X, **Bagshaw SM**, Rewa OG. Optimizing mobility for critically ill patients undergoing continuous renal replacement therapy (MOvE CRRT): An audit of mobility interventions in the intensive care unit. *Can J Resp Crit Care Sleep Med* 2021: published online June 14, 2021 (doi.org.10.1080/24745332.2021.1923088).
 16. Writing Committee for the REMAP-CAP Investigators, Estcourt LJ, Turgeon AF, McQuilten ZK, McVerry BJ, Al-Beidh F, Annane D, Arabi YM, Arnold DM, Beane A, Bégin P, van Bentum-Puijk W, Berry LR, Bhimani Z, Birchall JE, Bonten MJM, Bradbury CA, Brunkhorst FM, Buxton M, Callum JL, Chassé M, Cheng AC, Cove ME, Daly J, Derde L, Detry MA, De Jong M, Evans A, Fergusson DA, Fish M, Fitzgerald M, Foley C, Goossens H, Gordon AC, Gosbell IB, Green C, Haniffa R, Harvala H, Higgins AM, Hills TE, Hoad VC, Horvat C, Huang DT, Hudson CL, Ichihara N, Laing E, Lamikanra AA, Lamontagne F, Lawler PR, Linstrum K, Litton E, Lorenzi E, MacLennan S, Marshall J, McAuley DF, McDyer JF, McGlothlin A, McGuinness S, Mifflin G, Montgomery S, Mouncey PR, Murthy S, Nichol A, Parke R, Parker JC, Priddee N, Purcell DFJ, Reyes LF, Richardson P, Robitaille N, Rowan KM, Rynne J, Saito H, Santos M, Saunders CT, Serpa Neto A, Seymour CW, Silversides JA, Tinmouth AA, Triulzi DJ, Turner AM, van de Veerdonk F, Walsh TS, Wood EM, Berry S, Lewis RJ, Menon DK, McArthur C, Zarychanski R, Angus DC, Webb SA, Roberts DJ,

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4. Rolfson D, Carr F, Grinman M, Montgomery C, **Bagshaw SM**. Feasibility of Implementing a Frailty Order Set to Enhance Hospital Care of Older Adults Living with Frailty. 10th International Conference on Frailty and Sarcopenia Research, Toulouse, France (March 11-13, 2020).
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27. Wald R, Burns K, Friedrich, J, Barton J, Bouchard J, Cailhier JF, Soth, M, Lebovic G, **Bagshaw SM**. OPTIMAL Selection for and Timing to Start Renal Replacement in Critically Ill Older Patients with Acute Kidney Injury (OPTIMAL-AKI): A Prospective Observational Cohort Study. To the *American Society of Nephrology*, Chicago, USA (November 2016)
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