

Curriculum Vitae – Daniel J. Niven BSc, MD, MSc, PhD, FRCPC

(Date prepared: June 19, 2017)

I. BIOGRAPHICAL DATA

Citizenship: Canadian
E-mail: daniel.niven@ahs.ca
Present Rank: Assistant Professor
Departments: Critical Care Medicine; Community Health Sciences
Institute: O'Brien Institute for Public Health
Faculty: Cumming School of Medicine
Institution: University of Calgary

II. ACADEMIC RECORD

i. Undergraduate

1999 – 2003 Honours Bachelor's of Science with first class standing, Biochemistry
Brock University, St. Catherines, Ontario

ii. Professional

2003 – 2006 Doctor of Medicine, Faculty of Medicine, University of Calgary
Calgary, Alberta

2006 – 2009 Resident, Internal Medicine Training Program, University of Calgary, Calgary, Alberta

2009 – 2011 Resident, Critical Care Medicine Training Program, University of Calgary, Calgary,
Alberta

iii. Graduate

2009 – 2012 Master of Science (Medical Sciences, Critical Care Specialization), Department of Medical
Science, Faculty of Medicine, University of Calgary

2012 – 2015 Doctor of Philosophy (Health Services Research), Department of Community Health
Sciences, Faculty of Medicine, University of Calgary

iv. Licensure, certification, and boards

2011 – Advanced Trauma Life Support Instructor, American College of Surgeons

2011 Specialist Certificate, Critical Care Medicine, Royal College of Physicians & Surgeons of
Canada

2010 Specialist Certificate, Internal Medicine, Royal College of Physicians & Surgeons of
Canada

2010 Fellow, Royal College of Physicians & Surgeons of Canada

2010 Advanced Trauma Life Support Provider, American College of Surgeons
 2009 Advanced Cardiac Life Support Provider, Heart and Stroke Foundation
 2007 Licentiate of the Medical Council of Canada, Medical Council of Canada

III. AWARDS AND DISTINCTIONS

2015-16 CIHR Institute of Health Services and Policy Research (IHSPR) Rising Star (\$1,000). Toronto, Ontario.

2015 Associate Dean's Letter of Excellence, Teaching Excellence in Physical Exam2, Undergraduate Medical Education, University of Calgary

2015 Distinguished Service Letter, Teaching Contributions in Physical Exam2, Undergraduate Medical Education, University of Calgary

2015 Alberta Society of Intensive Care Physicians 27th annual general meeting, Trainee Competition, Best Abstract and Best Oral Presentation (\$500)

2014 2014 CHEST Alfred Soffer Research Award (*Semi-finalist*: nominated on the basis of outstanding original scientific research). 2014 CHEST Annual Meeting, Austin, Texas (Oct 26 – 30, 2014).

2013 – 2014 J.B. Hyne Research Innovation Award (awarded for excellence in research at the graduate level), University of Calgary (\$500)

2013 Associate Dean's Letter of Excellence, Teaching Excellence in Physical Exam1, Undergraduate Medical Education, University of Calgary

2012 – 2015 Alberta Innovates Health Solutions Clinician Fellowship Award. University of Calgary (Salary award: \$225,000)

2012 – 2013 Achievers in Medical Science Graduate Recruitment Award. Faculty of Graduate Studies, University of Calgary. (\$25,000)

2012 – 2015 Knowledge Translation Canada Student Research Stipend. University of Calgary. (\$15,000 over three years)

2012 – 2014 Knowledge Translation Canada STIHR Research Fellowship. University of Calgary. (\$40,000)

2011 Clinical Clerkship Goldstar Teaching Award (Emergency Medicine), University of Calgary

2011 Academic Productivity Research Award (Rewarding manuscript publication during a Master's program), Department of Medical Science, University of Calgary (\$1000)

2011 Alberta Graduate Student Scholarship (Rewarding outstanding academic achievement in a Master's program), Department of Medical Science, University of Calgary (\$3000)

2010 Program Specific Award (Completion of annual graduate program requirements), Department of Medical Science, University of Calgary (\$2050)

2010 Clinical Clerkship Goldstar Teaching Award (Internal Medicine), University of Calgary

2008 Award for Excellence in Clerkship Teaching (Department of Medicine Annual Award Banquet), University of Calgary

2008 Best Resident Abstract – 21st Annual Internal Medicine Resident Research Day, May 12-13, 2008, University of Calgary

2008 Best Oral Presentation, 21st Annual Internal Medicine Resident Research Day, May 12-13, 2008, University of Calgary

2007 Have a Heart Bursary - Canadian Cardiovascular Society, Canadian Cardiovascular Society Academy (\$1500)

- 2006 Boehringer Ingelheim Ltd. Medical Achievement Award – Excellence in Cardiology Electives, University of Calgary (\$500)
- 2005 Silver Medalist – Faculty of Medicine Research Day, University of Calgary
- 2003 Chemistry Department Laboratory Teaching Assistant of the Year, Brock University (\$350)
- 2003 Highest Graduating Average (Faculty of Biochemistry), Brock University (\$100)
- 2002 Walter A. Cherniak Award (Chemistry), Brock University (\$200)
- 2001 Canvision Optical Award (Organic Chemistry), Brock University (\$500)
- 2000 Sophia Gampel Memorial Scholarship, Brock University (\$350)
- 1999 Renewable Brock University Entrance Scholarship, Brock University (\$10,000)

IV. ACADEMIC APPOINTMENTS

- 2016 - Assistant Professor, Departments of Critical Care Medicine and Community Health Sciences, Cumming School of Medicine, University of Calgary
- 2011 - Intensivist, Calgary Zone of Alberta Health Services, Calgary, Alberta, Canada
- 2011 – 2015 Clinical Scholar, Department of Critical Care Medicine, Cumming School of Medicine, University of Calgary
- 2011 – 2015 Locum Physician, General Internal Medicine, Chinook Regional Hospital, Alberta Health Services, Lethbridge, Alberta
- 2009 – 2011 Fellow, Critical Care Medicine, Faculty of Medicine, University of Calgary
- 2008 – 2009 Chief Resident, Internal Medicine, Faculty of Medicine, University of Calgary
- 2006 – 2009 Resident, Internal Medicine, Faculty of Medicine, University of Calgary

V. EDUCATIONAL ACTIVITIES

i. Undergraduate

- 2017 MDCN 410: Course IV – Renal, Endocrine, & Obesity: Intravenous Fluids (lecture to students in the Undergraduate Medical Education Program), Cumming School of Medicine, University of Calgary
- 2017 HSOC 311 (Health Services and Health Systems): Acute Care (lecture to students in the Bachelor of Health Sciences Program), Cumming School of Medicine, University of Calgary
- 2016 HSOC 311 (Health Services and Health Systems): Acute Care (lecture to students in the Bachelor of Health Sciences Program), Cumming School of Medicine, University of Calgary
- 2015 HSOC 311 (Health Services and Health Systems): Acute Care (lecture to students in the Bachelor of Health Sciences Program), Cumming School of Medicine, University of Calgary
- 2014 MDCN 440 (Applied Evidence-based Medicine): *Clinical Preceptor* to MD student Katrina Drohomirecki, Undergraduate Medical Education, Cumming School of Medicine, University of Calgary
- 2014 MDCN 440 (Applied Evidence-based Medicine): *Research Preceptor* to MD student Jared McCormick, Undergraduate Medical Education, Cumming School of Medicine, University of Calgary

- 2013 Course 3, Acute Care Simulation Preceptor, Undergraduate Medical Education Simulation, Faculty of Medicine, University of Calgary
- 2012 Introduction to Clinical Clerkship, Undergraduate Medical Education Simulation, Faculty of Medicine, University of Calgary
- 2012 – 2016 Physical Examination Course Preceptor, Undergraduate Medical Education, University of Calgary

ii. Graduate

- 2016 - Sayed Metwaly, Department of Critical Care Medicine, University of Calgary (PhD supervisory committee member)
- 2016 - Rosmin Esmail, Department of Community Health Sciences, University of Calgary (PhD supervisory committee member)
- 2016 - Ian Blanchard, Department of Community Health Sciences, University of Calgary (PhD supervisory committee member)
- 2016 MDSC 623.02 (Fundamentals of Critical Care): Clinical Trials Methodology (1 lecture), Department of Critical Care Medicine, University of Calgary
- 2016 MDSC 623.02 (Fundamentals of Critical Care): Diagnostic Tests (1 lecture), Department of Critical Care Medicine, University of Calgary
- 2014 MDCH 741 (Systematic Reviews & Meta-analysis): Scoping and Realist Reviews (1 lecture), Department of Community Health Sciences, University of Calgary
- 2014 MDSC 623.02 (Fundamentals of Critical Care): Clinical Trials Methodology (1 lecture), Department of Critical Care Medicine, University of Calgary

iii. Postgraduate

- 2017 Lecturer, Advanced Trauma Life Support Course for Physicians, Calgary, Alberta, Canada (1 weekend course)
- 2017 Preceptor, High Fidelity Simulation, Critical Care Medicine Residents, University of Calgary (1 session)
- 2017 Clinico-pathological correlate rounds. Preceptor for Dr. Julie Kromm, Critical Care Resident. University of Calgary
- 2016 Temperature Abnormalities: A Knowledge Chasm? Lecture to Critical Care Medicine Residents, University of Manitoba, Winnipeg, Manitoba (Oct 19, 2016)
- 2016 Research Supervisor, Dr. Bikaramjit Mann, Critical Care Resident, Department of Critical Care Medicine, University of Calgary
- 2016 Academic Project Introduction and Project Types, Lecture to Critical Care Medicine Residents, University of Calgary
- 2016 Academic Project Mentorship & Feasibility, Lecture to Critical Care Medicine Residents, University of Calgary
- 2016 Academic Project Ethics & Funding, Lecture to Critical Care Medicine Residents, University of Calgary
- 2016 Hemodynamic Monitoring in the ICU, Critical Care Medicine Residents Small Group Preceptor, University of Calgary
- 2016 Lecturer, Advanced Trauma Life Support Course for Physicians, Calgary, Alberta, Canada (1 weekend course)
- 2016 Electrolyte Imbalances, Rotating Critical Care Residents, Department of Critical Care medicine, University of Calgary (2 lectures)

- 2016 Shock, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary (1 lecture)
- 2016 Preceptor, High Fidelity Simulation, Critical Care Medicine Residents, University of Calgary (1 session)
- 2015 Introduction to the ICU, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary (2 courses delivered)
- 2015 Invited Preceptor, Department of Emergency Medicine monthly journal club, University of Calgary (guest preceptor at 1 emergency medicine journal club)
- 2015 Hypoxemic Respiratory Failure and the Acute Respiratory Distress Syndrome, Lecture to Internal Medicine Residents, Department of Critical Care Medicine, University of Calgary (1 lecture)
- 2015 Head Injury, Rotating Critical Care Residents, Department of Critical Care, University of Calgary (1 lecture)
- 2015 Lecturer, Advanced Trauma Life Support Course for Physicians, Calgary, Alberta, Canada (1 weekend course)
- 2015 Shock, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary (1 lecture)
- 2015 Symptom Control in the ICU, Critical Care Medicine Residents Small Group Preceptor, University of Calgary.
- 2014 Academic Project Ethics & Funding, Lecture to Critical Care Medicine Residents, University of Calgary
- 2014 Hemodynamic Monitoring in the ICU, Critical Care Medicine Residents Small Group Preceptor, University of Calgary
- 2014 Introduction to the ICU, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary (2 courses delivered)
- 2014 Fulminant Hepatic Failure, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary (1 lecture)
- 2014 Thinking in the ICU, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary (1 lecture)
- 2014 Shock, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary (1 lecture)
- 2014 Electrolyte Imbalances, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary (1 lecture)
- 2014 Cardiac Dysrhythmias, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary (1 lecture)
- 2014 Lecturer, Advanced Trauma Life Support Course for Physicians, Calgary, Alberta, Canada (1 weekend course)
- 2014 Non-invasive Hemodynamic Monitoring in the ICU, Critical Care Medicine Residents Small Group Preceptor, University of Calgary
- 2014 Abstract Reviewer and Poster Judge. Internal Medicine Resident Research Day. University of Calgary
- 2013 Preceptor, High Fidelity Simulation, Critical Care Medicine Residents, University of Calgary (3 sessions)
- 2013 Preceptor (Dr. Ben Wierstra), Internal Medicine Residents Journal Club, University of Calgary
- 2013 Patient Safety in the ICU, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary (2 lectures)

- 2013 Sedation and Analgesia, Critical Care Medicine Residents Small Group Preceptor, University of Calgary
- 2013 Academic Project Introduction & Feasibility, Lecture to Critical Care Medicine Residents, University of Calgary
- 2013 Vasculitis and Pulmonary Hemorrhage Syndromes, Critical Care Medicine Residents Small Group Preceptor, University of Calgary.
- 2013 Acute Renal Failure, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary
- 2013 Introduction to the ICU, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary (3 courses delivered)
- 2013 Lecturer, Advanced Trauma Life Support Course for Physicians, Calgary, Alberta, Canada (1 weekend course)
- 2012 Patient Safety in the ICU, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary (2 lectures)
- 2012 Lecturer, Advanced Trauma Life Support Course for Physicians, Calgary, Alberta, Canada (2 weekend courses)
- 2012 Research Supervisor, Dr. Paul Campsall, Critical Care Resident, Department of Critical Care Medicine, University of Calgary
- 2012 Sedation and Analgesia, Critical Care Medicine Resident Small Group Preceptor, University of Calgary
- 2012 Academic Project Feasibility, Lecture to Critical Care Medicine Residents, University of Calgary
- 2012 Cardiac Arrhythmias, Lecture to Internal Medicine Residents, University of Calgary
- 2012 Electrolyte Imbalances, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary
- 2012 Introduction to the ICU, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary (2 courses delivered)
- 2012 Head Injury, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary
- 2011 Shock, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary
- 2011 Sepsis, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary
- 2011 Acid-base Disorders, Rotating Critical Care Residents, Department of Critical Care Medicine, University of Calgary
- 2011 Interpretation of Arterial Blood Gases, Lecture to Internal Medicine Residents University of Calgary
- 2011 Internal Medicine Residents Journal Club, Preceptor University of Calgary
- 2010 Peri-operative Respiratory Failure, Lecture to General Surgery Residents, University of Calgary
- 2010 Respiratory Failure, Lecture to Internal Medicine Residents, University of Calgary

iv. Continuing medical education

- 2017 CADTH Symposium 2017. Ottawa, Ontario. (Invited oral presentation: De-adoption of Low-value Technologies and the Practical Challenges with Removing them from Hospital Services)
- 2016 De-adoption, Less is More, and Choosing Wisely in Critical Care. Guest Lecture. Section of Critical Care Medicine, Department of Medicine, University of Manitoba. Winnipeg, Manitoba
- 2016 American Thoracic Society 2016 International Conference. San Francisco, California. (Oral presentation: Reproducibility of Scientific Evidence in Critical Care)
- 2016 De-adoption, De-implementation, Disadoption, Undiffusion... What does it all mean? Alberta Health Services Allied Health Community of Practice. Calgary, Alberta, Canada. February 8, 2016
- 2015 Knowledge Translation Canada Summer Institute 2015. Edmonton, Alberta, Canada. June 15 – 17, 2015 (poster presentation)
- 2015 De-adoption, De-implementation, Disadoption, Undiffusion... What does it all mean? Department of Critical Care Medicine Weekly Grand Rounds. University of Calgary. May 27, 2015
- 2015 American Thoracic Society 2015 International Conference. Denver, Colorado (invited to deliver 1 oral presentation)
- 2015 Introduction to Qualitative Health Research. The Department of Community Health Sciences, O'Brien Institute for Public Health, Roy and Vi Baay Chair in Kidney Research, and the Interdisciplinary Chronic Disease Collaboration. Cumming School of Medicine, University of Calgary (Attended 2-day course on qualitative health research methods)
- 2015 Alberta Society of Intensive Care Physicians 27th annual general meeting. Lake Louise, Alberta (delivered 1 oral presentation: The Adoption and De-adoption of Tight Glycemic Control Among Critically Ill Adults)
- 2014 Knowledge Translation Canada Journal Club. Presented 1 article in a national journal club focused on knowledge translation research
- 2014 2014 CHEST Annual Meeting. Austin, Texas (delivered 1 oral presentation).
- 2014 Department of Critical Care Medicine Monthly Journal Club Preceptor, University of Calgary (facilitated 1 monthly journal club)
- 2014 Temperature Abnormalities in Critical Care: A Knowledge Chasm? Department of Critical Care Medicine Weekly Grand Rounds. University of Calgary. May 28, 2014.
- 2013 Knowledge Translation Canada Summer Institute 2013. Hamilton, Ontario, Canada. June 17 – 19, 2013 (poster presentation)
- 2013 Medical Reversal, De-adoption, & Re-investment: A New KT Paradigm? Department of Critical Care Medicine Weekly Grand Rounds. University of Calgary, Calgary, Alberta. May 8, 2013
- 2013 Canadian Critical Care Western Winter Workshop; A national initiative to develop a research and educational agenda for examining Point of Care Ultrasound (POCUS) in Critical Care, Silverstar Mountain Resort, British Columbia, Canada. March 13 – 15, 2013 (attendee)
- 2013 Canadian Critical Care Trials Group Annual Winter Meeting, Lake Louise, Alberta, Canada. January 29 – 31, 2013. (attendee)
- 2012 European Society of Intensive Care Medicine LIVES 2012, 25th Annual Congress. Lisbon, Portugal (Delivered 2 oral presentations)

- 2012 Workshop in Simulation Education (WISE) Course. Peter Lougheed Centre, Alberta Health Services. July 4 – 5, 2012 (course participant).
- 2012 Fever in the ICU: A Hot Topic? Pediatric Intensive Care Unit, Lunch Rounds. Alberta Children’s Hospital. University of Calgary, Calgary, Alberta. May 15, 2012
- 2012 Cochrane Canada 10th Annual Symposium. Winnipeg, Manitoba (oral presentation)
- 2012 Fever in the ICU: A Hot Topic? Department of Critical Care Medicine Weekly Grand Rounds. University of Calgary, Calgary, Alberta. May 2, 2012
- 2011 Unravelling An Approach to Chest X-Rays and CT Scans. Critical Care Nursing Fall Update. Calgary, Alberta 2011.
- 2011 16th International Conference on Continuous Renal Replacement Therapies. San Diego, California (attendee)
- 2011 Unravelling An Approach to Chest X-Rays and CT Scans. Canadian Association of Critical Care Nurses. Calgary, Alberta 2011
- 2011 Alberta Society of Intensive Care Physicians 23rd Annual General Meeting. Lake Louise, Alberta (attendee)
- 2010 Canadian Critical Care Forum 2010. Toronto, ON, 2010. (poster presentation)
- 2010 Management of Fever in the Critically Ill. Alberta Society of Intensive Care Physicians 22nd Annual Meeting. Lake Louise, Alberta 2010. (presenter/attendee)
- 2009 Canadian Critical Care Forum 2009. Toronto, ON, 2010. (poster presentation)
- 2008 48th Annual ICAAC/IDSA 46th Annual Meeting. Washington, DC, 2008 (presenter/attendee)
- 2007 Canadian Cardiovascular Congress 2007. Quebec City, Quebec. (attendee – Have a Heart Bursary Recipient)
- 2006 International Society for Magnetic Resonance in Medicine 14th Scientific Meeting & Exhibition. Seattle, WA. (poster presentation)
- 2005 Heart Rhythm Society 26th Annual Scientific Sessions. New Orleans, LA. (presenter/attendee)

VI. ADMINISTRATIVE RESPONSIBILITIES

i. Departmental

- 2017 - Community Health Sciences Graduate Program, Health Services Research Specialization Curriculum Mapping Committee, Department of Community Health Sciences, Cumming School of Medicine, University of Calgary
- 2017 - Selection Committee, Clinician-scientist (health services research), Department of Critical Care Medicine, Cumming School of Medicine, University of Calgary
- 2016 - Critical Care Medicine Research Seminar, Department of Critical Care Medicine, Cumming School of Medicine, University of Calgary
- 2012 - Interviewer, Critical Care Medicine residency candidates. Department of Critical Care Medicine, Cumming School of Medicine, University of Calgary
- 2011 - Morbidity and Mortality Rounds, Department of Critical Care Medicine, Cumming School of Medicine, University of Calgary
- 2011 – 2015 Research Executive Committee, Department of Critical Care Medicine, Cumming School of Medicine, University of Calgary
- 2010 – 2011 Journal Club Committee, Department of Critical Care Medicine, University of Calgary

- 2009 – 2010 Grand Rounds Coordinator, Department of Critical Care Medicine, University of Calgary
 2006 – 2009 Residency Education Committee, Department of Medicine, University of Calgary

ii. Faculty

- 2005 – 2006 Clerkship Evaluation Appeal Committee, Undergraduate Medical Education, Faculty of Medicine, University of Calgary

VII. PROFESSIONAL ACTIVITIES

i. Memberships

- 2015 - American Thoracic Society
 2011 - Knowledge Translation Canada Research Network
 2011 - Canadian Intensive Care Foundation
 2011 - Society of Critical Care Medicine
 2011 - Canadian Critical Care Clinical Trials Group
 2009 - Canadian Critical Care Society, Toronto, ON
 2007 – 2011 Canadian Cardiovascular Society
 2003 - Alberta Medical Association

ii. Professional Service

- 2017 Reviewer, *Journal of Intensive Care Medicine*
 2017 Reviewer, *The Cochrane Collaboration*
 2016 Reviewer, *BMJ*
 2016 Thematic Poster Facilitator, *American Thoracic Society 2016 International Conference*
 2016 Reviewer, *Canadian Journal of Emergency Medicine*
 2015 Reviewer, *Canadian Journal of Infectious Diseases and Medical Microbiology*
 2015 Reviewer, *Critical Care Nurse*
 2013 - current Reviewer, *Critical Care Medicine*
 2013 Reviewer, *BMC Critical Care*
 2012 Reviewer, *Intensive Care Medicine*

VIII. RESEARCH SUPPORT

i. Received

- 2017 – 2019 MSI Foundation. (\$89,000 plus additional \$46,000 in-kind contributions from Department of Critical Care Medicine, University of Calgary, Critical Care Strategic Clinical Network, and Ward of the 21st Century) **Principal Investigator**. *Prioritization of Evidence-based Best Practices for Adoption/De-adoption in Adult Critical Care Medicine in Alberta.*
- 2017 – 2019 Project Grant (CIHR) (\$321,300). **Co-investigator**. PI: Dr. Jeanna Parsons Leigh. *De-adopting Low-value Practices in Critical Care Medicine.*
- 2017 – 2018 Late Life Issues Team Grant (CIHR); Critical Care Strategic Clinical Network (AHS). (\$10,000) **Co-investigator**. PI: Dr. Zahra Goodarzi. *Comparative safety and efficacy of*

pharmacological and non-pharmacological interventions for the behavioural and psychological symptoms of dementia: A systematic review and network meta-analysis.

- 2016 – 2018 Department of Critical Care Medicine, University of Calgary. Start-up Funding (\$50,000) **Principal Investigator.** *The De-adoption of Low-value Practices in Critical Care Medicine.*
- 2016 – 2018 O'Brien Institute for Public Health, University of Calgary. Start-up Funding (\$30,000) **Principal Investigator.** *The De-adoption of Low-value Practices in Critical Care Medicine.*
- 2016 - 2018 MSI Foundation. (\$124,366) **Co-investigator.** PI: Dr. Jeanna Parsons Leigh. *Identifying Barriers and Facilitators to the De-adoption of Low-Value Clinical Practices in Alberta Acute Care Hospitals.*
- 2016 – 2020 Canadian Institutes for Health Research (CIHR), Team Grant – Late Life Issues (\$1,388,754). **Co-investigator.** PI: Dr. H. Tom Stelfox. *Development and Evaluation of a Family-Partnered Care Pathway for Critically Ill Older Patients.*
- 2015 – 2017 Critical Care Strategic Clinical Network New Investigator Seed Funding Competition (with matching funds from Department of Critical Care Medicine, University of Calgary) (\$9,602.80 x 2 = \$19,205.60). **Principal Investigator.** Niven DJ, Stelfox HT, Straus SE, Hemmelgarn BR. *The Reversal of Clinical Practice in Critical Care Medicine: A Systematic Review.*
- 2014 – 2015 Critical Care Strategic Clinical Network New Investigator Seed Funding Competition (\$5,000). **Principal Investigator.** Niven DJ, Stelfox HT, Rubenfeld GD, Kramer AA. *The Adoption and De-adoption of Intensive Insulin Therapy Among Critically Ill Adults* (Award declined due to budgetary overlap with another operating grant).
- 2014 – 2016 Canadian Intensive Care Foundation (\$14,675). **Principal Investigator.** Niven DJ, Stelfox HT, Rubenfeld GD, Kramer AA. *The Adoption and De-adoption of Intensive Insulin Therapy Among Critically Ill Adults.*
- 2014 – 2016 Technology Value Network of Centres of Excellence of Canada Core Research Grant Program (\$589,573). **Co-investigator.** PI: Dr. H. Tom Stelfox. *Reengineering the Discharge of Elderly Patients from Intensive Care.*
- 2014 – 2016 Alberta Innovates Health Solutions, Partnership for Research and Innovation in the Health System (PRIHS) (\$748,790). **Co-investigator.** PI: Dr. H. Tom Stelfox. *Reassessing Practices in the Daily Care of Critically Ill Patients: Building Capacity and Methodology to Identify & Close Evidence-care Gaps.*
- 2010 – 2012 Canadian Intensive Care Foundation (\$20,000). **Co-investigator.** Niven DJ, Leger C, Stelfox HT, Kubes P, Laupland KB (PI). *Assessment of the safety of antipyretic therapy in critically ill adults.* Clinicaltrials.gov NCT01173367 (MSc Thesis project; Dr. K.B. Laupland and Dr. H. Tom Stelfox, co-supervisors)

IX. INVITED ADDRESSES

i. Symposia

- 2017 CADTH Symposium 2017. De-adoption of Low-value Technologies and the Practical Challenges with Removing them from Hospital Services. April 25, 2017. Ottawa, Ontario. (oral presentation)
- 2017 Alberta Society of Intensive Care Physicians 29th annual general meeting. Best Practice in Critical Care: Knowing the Right Thing to Do or Not to Do. January 20, 2017. Lake Louise, Alberta, Canada (oral presentation).
- 2016 Calgary Zone of Alberta Health Services, Critical Care Nurse Fall Update 2016. Temperature Abnormalities in Critical Care: What do we Really Know? October 25, 2016. Calgary, Alberta, Canada (oral presentation).
- 2015 Knowledge Translation Canada Summer Institute 2015. Towards Understanding the De-adoption of Low-value Clinical Practices: A Scoping Review. June 15 – 17, 2015. Edmonton, Alberta, Canada (poster presentation).
- 2015 American Thoracic Society 2015 International Conference. De-adoption of Things for Which we Had Evidence (e.g. tight glycemic control). May 18, 2015. Denver, Colorado, United States (oral presentation).
- 2004 Calgary History of Medicine Society Annual Dinner. Botulism to BOTOX: From Poison to Therapy. University of Calgary, Calgary, Alberta, Canada (oral presentation).

ii. Visiting Professor

- 2016 Section of Critical Care Medicine, Department of Medicine, University of Manitoba. De-adoption, Less is More, and Choosing Wisely in Critical Care. October 19 – 20, 2016. Winnipeg, Manitoba, Canada (oral presentation).

X. MEDIA IMPACT

OpEd: Niven DJ. Closing the 17-year gap between scientific evidence and patient care : *Newer tests and treatments are not always better and too much care can be bad for your health*. University Affairs. January 17, 2017. <http://www.universityaffairs.ca/opinion/in-my-opinion/closing-17-year-gap-scientific-evidence-patient-care/>

Secondary Citations:

Niven DJ. Reducing gap between research and practice a national priority. Huffington Post. January 26, 2017. http://www.huffingtonpost.ca/daniel-niven/medical-research-gap_b_14420210.html

Niven DJ. Closing the 17-year gap between research and patient care. Waterloo Region Record. January 28, 2017. <http://www.therecord.com/opinion-story/7089071-closing-the-17-year-gap-between-research-and-patient-care/>

Niven DJ. Closing the 17-year gap between research and patient care. Canadian Healthcare Network. February 9, 2017. <http://www.canadianhealthcarenetwork.ca>

Publication: Niven DJ, Gaudet JE, Laupland KB, Mrklas KJ, Roberts DJ, Stelfox HT. Accuracy of Peripheral Thermometers for Estimating Temperature: A Systematic Review and Meta-analysis. *Ann Intern Med* 2015;163(10):768-777.

Secondary Citations:

2015 Peripheral Thermometers May Not be Accurate Especially Among Critically Ill Patients. Interview for MedicalResearch.com. <http://www.medicalresearch.com> (November 18, 2015).

2015 For Inpatients, Core Temp Readings a Must. Interview for Medpage Today. <http://www.medpagetoday.com> (November 16, 2015).

2015 Peripheral Thermometers Lack Accuracy. Report written by Medscape.com

<http://www.medscape.com> (November 16, 2015).

2015 For the Most Accurate Read, Where Should You Put That Thermometer? Interview for National Public Radio (NPR). <http://www.npr.org> (November 16, 2015).

2015 Rectal Thermometers are the Most Accurate, Study Says. Interview for Stat News. <http://www.statnews.com> (November 16, 2015).

Publication: Niven DJ, Mrklas KM, Holodinsky JK, Straus SE, Hemmelgarn BR, Jeffs LP, Stelfox HT. Towards Understanding the De-adoption of Low-value Clinical Practices: A Scoping Review. *BMC Med* 2015;13:255.

Secondary Citations:

2015 Researchers Develop Model for Curbing Wasteful Healthcare Practices. Interview for UToday, University of Calgary. <http://www.ucalgary.ca/utoday> (November 27, 2015).

2015 Calgary Doctor Sheds Light on Ineffective Practices Costing the Healthcare System. Interview for Metro News. <http://www.metronews.ca> (December 2, 2015).

Publication: Niven DJ, Rubenfeld GD, Kramer AA, Stelfox HT. The Effect of Published Scientific Evidence on Glycemic Control in Adult Intensive Care Units. *JAMA Intern Med* 2015;175(5): 801-809.

Secondary Citations:

2015 Tight Glycemic Control Common in ICUs Despite Evidence-based Literature. Report written by 2minute medicine. <http://www.2minutemedicine.com> (March 19, 2015)

2014 Tight Glucose Control Used Improperly in Intensive Care. Interview for Medscape.com. <http://www.medscape.com> (November 6, 2014)

Publication: Niven DJ, Stelfox HT, Shahpori R, Laupland KB. Fever in Adult Intensive Care Units: An Interrupted Time Series Analysis. *Crit Care Med* 2013;41: 1863-1869 (Epub June 18, 2013)

Television Interview:

2013 How to Fight a Fever. Interview with Karen Owen for CTV Calgary 'Medical Watch'. Calgary, Alberta (October 4, 2013).

XI. PUBLICATIONS

i. Peer-reviewed

1. McKenzie E, Potestio ML, Boyd JM, **Niven DJ**, Brundin-Mather R, Bagshaw SM, Stelfox HT. Reconciling Patient and Provider Priorities for Improving the Care of Critically Ill Patients: A Consensus Method and Qualitative Analysis of Decision Making. *Health Expectations* 2017. ePub May 31, 2017.
2. Parsons Leigh J, **Niven DJ**, Boyd J, Stelfox HT. Developing a framework to guide the de-adoption of low-value clinical practices in acute care medicine: a study protocol. *BMC Health Serv Res* 2017;17(1):54 (ePub Jan 19, 2017).
3. **Niven DJ**, Afra K, Iftinca M, Tellier R, Fonseca K, Kramer A, Safronetz D, Holloway K, Drebot M, Johnson AS. Fatal Infection with Murray Valley Encephalitis Virus Imported from Australia to Canada, 2011. *Emerg Infect Dis* 2017;23(2):280-283.
4. Gill M, McKenzie E, Oxland P, Oswell D, Boulton D, Bagshaw SM, **Niven DJ**, Potestio M, Shklarov S, Marlett N, Stelfox HT. Patient and Family Researchers in the Intensive Care Unit: A Novel Approach to Patient-Centred Research. *PLOS One* 2016;11(8):e0160947.

5. Stelfox HT, Bastos J, **Niven DJ**, Bagshaw SM, Turin TC, Gao S. Critical Care Transition Programs and the Risk of Readmission or Death after Discharge from an ICU: A Controlled Interrupted Time Series Analysis. *Intensive Care Med* 2016;42(3):401-10 (ePub Dec 22, 2015).
6. Stelfox HT, **Niven DJ**, Clement FM, Bagshaw S, Cook DJ, McKenzie E, Potestio M, Doig C, Sonnenberg B, Zygun D. Stakeholder Engagement to Identify Priorities for Improving the Quality and Value of Critical Care. *PLOS ONE* 2015;10(10)e0140141 (ePub Oct 22, 2015)
7. **Niven DJ**, Mrklas KM, Holodinsky JK, Straus SE, Hemmelgarn BR, Jeffs LP, Stelfox HT. Towards Understanding the De-adoption of Low-value Clinical Practices: A Scoping Review. *BMC Med* 2015;13:255.
8. **Niven DJ**, McCormick JT, Straus SE, Hemmelgarn BR, Jeffs LP, Stelfox HT. Identifying low-value clinical practices in critical care medicine: protocol for a scoping review. *BMJ Open* 2015;5(10):e008244 (ePub Oct 28, 2015).
9. **Niven DJ**, Gaudet JE, Laupland KB, Mrklas KJ, Roberts DJ, Stelfox HT. Accuracy of Peripheral Thermometers for Estimating Temperature: A Systematic Review and Meta-analysis. *Ann Intern Med* 2015;163(10):768-777.

Featured in:

Wise J. Rectal thermometer should be used for accurate temperature reading, analysis finds. *BMJ*;2015;351:h6125

Peripheral thermometers do not have clinically acceptable accuracy for measuring core body temperature. *Ann Intern Med* 2016;164(6):JC32 (ACP Journal Club)

Hernandez JM. Do peripheral thermometers accurately correlate to core body temperature? *Ann Emerg Med* 2016. Published online April 26, 2016

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ii. Invited Peer-reviewed Reviews

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iii. Invited Non-peer-reviewed Reviews

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iv. Letters and Correspondence

1. Laupland KB, **Niven DJ**. The Normal Abnormal Vital Sign of Sepsis. *Crit Care Med* 2017;45(4):747-748. (Invited Editorial)
2. **Niven DJ**, Laupland KB, Stelfox HT. Accuracy of Peripheral Thermometers for Estimating Temperature. Response to Letter to the Editor. *Ann Intern Med* 2016;165(1):73-74.
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4. **Niven DJ**, Stelfox HT. Inhaled nitric oxide in patients with acute respiratory distress syndrome: an end to the debate? *Crit Care Med* 2014;42: 472 – 473. (Invited Editorial)
5. **Niven DJ**, Stelfox HT, Ball CG, Kirkpatrick AW. Prehospital Intravenous Fluid Administration Is Associated With Higher Mortality in Trauma Patients: A National Trauma Databank Analysis. A Letter to the Editor *Ann Surg* 2014;259(2):e16 (Epub Oct 3, 2013)
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7. **Niven DJ**, Berthiaume LB. Risk Factors for TRALI: Improper Analysis of Matched Data. Letter to the editor. *Crit Care Med* 2011; 39(3):610-611. (Letter to the Editor)

v. Book Chapters

1. **Niven DJ**, Stelfox HT. Glucose Control in the Intensive Care Unit. Chapter *submitted* for publication in *50 Studies Every Intensivist Should Know (in press)*.

vi. Abstracts

1. Sauro KM, Bagshaw SM, **Niven DJ**, Soo A, Brundin-Mather R, Parsons Leigh J, Cook DJ, Stelfox HT. Barriers and facilitators to adoption of high value practices and de-adoption of low value practices in the Intensive Care Unit. Poster presentation (presented by lead author) at *KT Canada Scientific Meeting 2017*. Quebec, Canada.
2. Mann B, Bagshaw SM, Straus SE, James MT, **Niven DJ**. Initial Renal Replacement Therapy Modality and Recovery of Renal Function in Acute Kidney Injury: Protocol for A Network Meta-Analysis. Poster presentation (presented by lead author) at Alberta Society of Intensive Care Physicians 29th annual general meeting (January 20, 2017).
3. Sauro KM, **Niven DJ**, Soo A, Brundin-Mathers R, Parsons Leigh J, Bagshaw SM, Stelfox HT. Venous thromboembolism prophylaxis among neurocritical care patients: what is the current practice? Oral presentation (presented by lead author) at Alberta Society of Intensive Care Physicians 29th annual general meeting.
4. Soo A, Zuege DJ, Fick GH, **Niven DJ**, Berthiaume LR, Stelfox HT, Doig CJ. Describing Organ Dysfunction in the ICU. Poster Presentation (presented by lead author) at *SCCM Congress 2017* (Honolulu, Hawaii).
5. Stelfox HT, Bastos J, **Niven DJ**, Bagshaw SM, Turin TC, Gao S. Critical Care Transition Programs and the Risk of Readmission or Death after Discharge from an ICU. *Crit Care Med* 2015;43(supplement 12):792. Poster presentation (presented by lead author) at *SCCM Congress 2016 (Orlando, Florida)*.

6. **Niven DJ**, McCormick TJ, Straus SE, Hemmelgarn BR, Jeffs LP, Barnes TRM, Stelfox HT. Reversal of Scientific Evidence and Identifying Opportunities for De-adoption in Critical Care: a Scoping Review. *Am J Resp Crit Care Med* 2016;193:A6153 (Oral presentation at *ATS International Conference 2016*.)
7. Stelfox HT, McKenzie E, Bagshaw S, Gill M, Oxland P, Boulton D, Oswell D, Potestio M, **Niven DJ**. A Novel Patient and Community Engagement Research Method to Understand Patient and Family Experiences with Critical Care. *Abstract* presented as a poster (presented by lead author) at *2015 BMJ International Forum on Quality & Safety in Healthcare and 2015 International Symposium on Intensive Care and Emergency Medicine*.
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vii. Submitted

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2. Posadas-Calleja JG, Stelfox HT, Ferland A, Zuege DJ, **Niven DJ**, Berthiaume LR, Doig CJ. Derivation of a PIRO score for predicting mortality in a cohort of ICU patients with surgical-related intra-abdominal sepsis. Manuscript submitted to *Am J Crit Care*.
3. Soril LJJ, Esmail R, **Niven DJ**, Noseworthy TW, Clement FM. Untangling, Unbundling and Moving Forward: Connecting Health Technology Reassessment. Manuscript submitted to the *International Journal of Technology Assessment in Health Care*.