



# CURRICULUM VITAE

Updated: June 1, 2017

## BIOGRAPHICAL DATA

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<b>Name:</b>	Christopher James Doig	<b>Citizenship:</b>	Canadian
<b>Address:</b>	ICU Administration, Room 0449, Ground floor, McCaig Tower 3134 Hospital Drive NW Calgary, Alberta T2N 2T9	<b>Present Rank:</b>	Professor, Tenured
<b>Telephone:</b>	Off: (403) 944-1691 Fax: (403) 283-9994 Email: cdoig@ucalgary.ca	<b>Department:</b>	Critical Care, Medicine, Community Health Sciences, Internal Medicine
<b>DOB:</b>	May 20, 1965	<b>Faculty:</b>	Medicine
		<b>Institution:</b>	University of Calgary

## ACADEMIC RECORD

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Final Degree: M.D., M.Sc. F.R.C.P.(C)  
Specialty – Internal Medicine  
Subspecialty – Critical Care  
Master of Science (Specialization in Clinical Epidemiology)  
Certificate Health Care Ethics

i. Undergraduate

Faculty of Arts and Science, 1982-1983  
University of Saskatchewan

M.D. (distinction) 1983-1988  
College of Medicine  
University of Saskatchewan

ii. Special Professional

Rotating Internship, 1988-89  
St. Paul's Hospital  
Vancouver, BC

Internal Medicine, 1989-93  
Department of Medicine, University of Calgary

Chief Resident, Internal Medicine, 1992-1993  
Fellow, Royal College of Physicians and Surgeons (FRCPC)  
Department of Medicine, University of Calgary

Critical Care Fellow, 1993-95  
Certificate of Special Competence  
Division of Critical Care, Department of Medicine  
University of Calgary  
Fellow, Royal College of Physicians and Surgeons

Health Care Ethics Certificate July 1, 1998 – June 30, 1999  
Department of Medical History and Bioethics  
University of Washington School of Medicine

iii. Graduate

Graduate Student, 1993-96  
Master of Science: Epidemiology  
Department of Community Health Sciences, Faculty of Medicine



- University of Calgary
- iv. Licensure and Certification  
 Licentiate Medical Council of Canada, 1988  
 Fellow (Internal Medicine 1989, Critical Care Medicine 1993), Royal College of Physicians and Surgeons of Canada  
 Licentiate, Alberta College of Physicians and Surgeons, 1993

#### AWARDS

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2017	Bronze Teaching Award (Class of 2016-2017); Classroom Based Teaching and Supervision
2016	AMA Medal for Distinguished Service Award, Alberta Medical Association (AMA)
2016	2016 CMA Dr. William Marsden Award in Medical Ethics, Canadian Medical Association (CMA)
2016	Global Sepsis Award, Alberta Sepsis Network; University of Calgary
2015	2014 Research Mentor Award; University of Calgary
2013	Hellbender Honor Roll (Awarded by the Calgary Medical Students' Association to recognize excellence in lecture, small group, and bedside teaching).
2013	Certificate of Appreciation, Medical Council of Canada (Member of Test Committee (PHELO).
2012	AMA's Long-Service Award. (Award for longstanding service to the medical profession and contributions).
2010	The Royal Life Saving Society Bronze Benefactor Medal (Awarded for public service in role with STARS).
2004	Gold Star Teaching Award (Class of 2006); Medical Ethics
2003	Gold Star Teaching Award (Class of 2005); Medical Ethics
	Gold Star Teaching Award (Class of 2005); Physical Examination Skills
	Gold Star Teaching Award (Class of 2004); Medical Ethics (Lectures)
	Gold Star Teaching Award (Class of 2004); Medical Ethics (Small Groups)
1999	McLeod Distinguished Achievement Award, Faculty of Medicine, University of Calgary
1999	Department of Internal Medicine Teaching Award, Faculty of Medicine, University of Calgary
1994	E. Garner King Award Canadian Critical Care Society "Best Young Investigator"
1993-1995	Alberta Heritage Foundation for Medical Research Clinical Fellowship
1988	MD with Distinction Faculty of Medicine Senior Stick (Leadership and Academic Performance) University of Saskatchewan
1983	College of Arts and Science University of Saskatchewan Undergraduate Scholarship
1982	Government of Saskatchewan Continuing Education Bursary

#### MEDICAL APPOINTMENTS

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2013-present	Professor and Head, Department of Critical Care Medicine, and Regional Clinical Department Head, Calgary Zone, Alberta Health Services (November 1, 2013)
2010-2013	Professor and Head, Department of Community Health Sciences, University of Calgary (July 1, 2010)
2004-2010	ICU Medical Director, Department of Critical Care Medicine, Foothills Hospital (April 2004 to June 30, 2010).
2004-2004	Acting ICU Medical Director, Department of Critical Care Medicine, Foothills Hospital (January 2004 – March 2004).



2009 – Present	Professor
2002 – 2009	Associate Professor
1995 – 2002	Assistant Professor Departments of Critical Care Medicine, Medicine, and Community Health Sciences Office of Medical Bioethics Faculty of Medicine University of Calgary

#### ADMINISTRATIVE RESPONSIBILITIES

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- v. Departmental
  - Co-Chair, Department of Critical Care Medicine Quality Assurance Committee, May 1, 2017 – present
  - Co-Chair, Department of Critical Care Medicine Mortality Working Group, May 1, 2017 - present
  - Co-Chair, Department of Critical Care Medicine ICU Executive Council, November 1, 2013 -present
  - Chair, Department of Critical Care Medicine Medical Executive Council, November, 2013-present
  - Chair, Department of Critical Care Medicine Physician Business Meeting, November, 2013 –present
  - Chair, Department of Critical Care Medicine Research Executive Council Meeting, November 2013-present
  - Chair, Community Health Sciences Departmental Council, July 2010-November 1, 2013
  - Chair, Community Health Sciences Executive Committee, July 2010-November 1, 2013
  - Member, Community Health Sciences Graduate Education Committee, July 2010-November 1, 2013
  - Member, Public Health and Preventive Medicine Residency Program, July 2010-November 1, 2013
  
- vi. Faculty
  - Member, Clinical Neuro Sciences Department Head Review Committee, 2016
  - Member, Precision Medicine Steering Committee, 2016--17
  - Member, Undergraduate Medical Education Committee (UMEC), June 2015- present
  - Member, Planning and Priorities Committee, November 2013-present
  - Member, General Faculties Council, July 2012-2015
  - Member, Leadership Forum, July 2010-Present
  - Member, Department Heads, July 2010-Present
  - Member, Snyder Executive Council 2008-present
  - Member, Institute for Public Health Executive Committee, July 2010-2013
  - Member, Institute for Public Health (IPH) Strategic Advisory Board, July 2010-2013
  
- vii. University
  - Co-Chair of the GFC Student Academic Appeals Committee, CSM University of Calgary, June 2017-present
  - Member, Search and Selection Committee, Headship, Department of Physiology and Pharmacology Headship Review, June 2017
  - Member, Science Student Appeals Committee, May 2016 – present
  - CSM Decanal Review: Advisory Committee Meeting, 2015
  - Member, AMF Clinical Department Head meeting, December 2015- present
  - Member, Faculty Promotions Committee meeting, Sept 2015-present
  - Co-chair, Ad Hoc Committee on Student Mistreatment/Harassment, University of Calgary, July 2015
  - Member, Search and Selection Committee, Headship, Associate Dean, Undergraduate Medical Education, 2013
  - Member, Search and Selection Committee, Headship, Associate Dean, Undergraduate Sciences Education, March 2013
  - Chair, Internal Review Committee of the Bachelor of Health Sciences Program, March 2013
  - Member, Search and Selection Committee, Headship, Department of Family Medicine, November 2012
  - Member, ACHRI Leadership Council, July 2010-2013
  - Chair, Student Academic Review Committee, University of Calgary, 2007-June 30/2012
  - Member, Conjoint Health Research Ethics Board, University of Calgary, 1995-2005
  - Member, Student Academic Review Committee, University of Calgary 2005-2007



Member, Student Appeals Committee, University of Calgary, 2003-2005  
 Chair, Conjoint Health Research Ethics Board, University of Calgary, 2000-2005  
 Member, Executive Council, Calvin, Phoebe and Joan Snyder Institute for Chronic Diseases 2006-present  
 Member, Department of Critical Care Medicine Headship Review Committee, 2008-2009  
 Chair, Student Academic Review Committee, University of Calgary, 2007 – July 2012  
 Chair, Conjoint Health Research Ethics Board, October 2000- 2005  
 Member, Research Ethics Policy Committee, 2000-2004

viii. Provincial

Member, Governance Committee, Academic Alternative Relationship Plan (AARP), January 2015-present  
 Member, Strategic Clinical Network, November 2013-present  
 Member, Provincial Academic ARP (Alternate Relationship Plan)  
     P-AARP (Provincial faculty-wide Academic Alternate Relationship Plan)  
     PAOC (Provincial Advisory and Operations Committee for P-AARP)  
 Member, Alberta Innovates-Health Solutions Highly Skilled People Working Group, Jan 2011-Aug 2011.

ix. Hospital

Member, FMC Site Physicians Meeting, 1996-present  
 Member, ICU Morbidity and Mortality, 1996-present  
 Member, DCCM Research Executive Committee, 1996-October 2013

PROFESSIONAL ACTIVITIES

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x. Professional Service

To the Profession

- Member, CPSA General Assessment Advisory Committee (GAAC) Meeting, March 2017-present
- Chair, CSM Admission Committee Review, March 2017-present
- Chair, Peer Review panel "Catalyst Grant: Health Services and Economics Research in Cancer Control" Canadian Institutes of Health Research (CIHR) Institute of Circulatory & Respiratory Disease– January, 2017
- Scientific Officer, "Health Effects of the Alberta Wildfires" Peer Review Committee, Canadian Institutes of Health Research (CIHR) Institute of Circulatory & Respiratory Disease– November 2016
- AMA Representative on the CPSA Physician Achievement Review Committee- January 1, 2014- December 30, 2016
- Co-Chair, Alberta Medical Association Advisory Committee on Academic Medicine – October 1, 2011 – 2014
- Board Member, M.S.I. Foundation – January 2011 – present
- Member, Canadian Medical Association Board – September 2011 – 2014
- Member, Canadian Medical Association Specialist Forum, September 2011 – 2013
- Member, CMA, Committee on Ethics, September 2012 – 2014
- Member, CMA Health Care Transformation Working Group, 2011 - 2014
- Member, CMA, Journal Oversight Committee (JOC), September 2012 – 2014
- Chair, Alberta Medical Association Nominating Committee, October 1, 2010 – September 30, 2011.
- Past President, Alberta Medical Association, September 2010 – September 2011
- President, Alberta Medical Association, September 2009 – September 2010
- President Elect, Alberta Medical Association, September, 2008 – September 2009
- Member, Medical Council of Canada/PHELO Test Committee, 2006-2013
- Member, College of Physicians and Surgeons of Alberta's Physician Performance Committee, 2008-2009
- Member, College of Physicians and Surgeons of Alberta Research Ethics Board, 2007-2009
- Board Member, Alberta Medical Association, 2003-2007
- President, Alberta Society of Intensive Care Physicians, January 2000-2004
- Executive of the Canadian Critical Care Society (Alberta Representative)



September 1998-2007

To the Public

- Chair, Southern Alberta Institute of Technology Respiratory Therapy Program Committee, 2011 – present
- Board Member, Institute of Health Economics (IHE), 2011 - 2013
- Chair, Safety & Risk Management Committee (Society), STARS, 2008-July 2012
- Member, STARS (Society): Human Resources and Compensation Committee (Joint standing committee of the Boards of Directors), 2005- July 2012
- Board Member, Shock Trauma Air Rescue Society of Alberta (STARS), 2005- July 2012
- Member, SAIT Advisory Committee Respiratory Therapy Program, 2010-2011
- Member, (Capital) Project Oversight Committee (Subcommittee to the Board), Calgary Health Region, 2006-2008
- Member, Canadian Council on Donation and Transplantation (CCDT), 2001-2005
- Chair, Donation Committee (CCDT), 2001-2005
- Health Information Protection Act-Research Consultation Working Group, Minister of Health, Government of Alberta
- Health Information Act, Research Advisory Group, Minister of Health, Government of Alberta.
- Expert Adviser to the Alberta Committee on Organ and Tissue Donation and Transplantation, Minister of Health, Government of Alberta
- Relative Value Guide Commission, Alberta Health and Wellness-Section of Critical Care Representative, January 2000-January 2001

Other relevant academic

- Member, Association of American Medical Colleges (AAMC) Council of Faculty and Academic Societies (CFAS), August 11, 2013 to date.
- Member, CMA Taskforce to review the Pound Report, February 2013 – 2014
- Chair, External Review Committee, University Health Network, 2007
- Member, Clinical evaluation committee, A phase 3 multicentre, randomized, placebo controlled double blind three arm study to evaluate the safety and efficacy of Tifacogin administration in subjects with severe community acquired pneumonia. Novartis Pharmaceuticals Inc. 2005-2008.
- Member, Clinical evaluation committee, ACCESS: A Controlled Comparison of Eritoran Tetrasodium and Placebo in Patients with Severe Sepsis. Eisai Pharmaceuticals Inc. 2007-2012.
- Member, Expert Scientific Advisory Panel on TFPI, Chiron Pharmaceuticals Inc.
- Member, Steering Committee, High Risk Surgery Study, Canadian Institute for Health Research 1992-1999.

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PROFESSIONAL LEARNING

1. Cumming School of Medicine Leadership Development Program, University of Calgary: Calgary, AB, Apr 21, 2017.
2. Cumming School of Medicine Leadership Development Program, University of Calgary: High Performance Negotiating and Real Cost of Decision Making. Calgary, AB, Mar 10, 2017.
3. Disclosing Unanticipated Medical Outcomes (DUMO) Course, Alberta Health Services, Calgary, AB, Feb 27, 2017.
4. Cumming School of Medicine Leadership Development Program, University of Calgary: Leading Through Change: Part 2 and Dynamics of decision making. Calgary, AB, Feb 10, 2017.
5. Cumming School of Medicine Leadership Development Program, University of Calgary: HR Challenges/ Performance/Talent Management. Calgary, AB, Jan 20, 2017.
6. Cumming School of Medicine, University of Calgary: Small Groups & Bedside Teaching Workshop. Calgary, AB, Dec 6, 2016.
7. Cumming School of Medicine Leadership Development Program, University of Calgary: The New Medical Dream Team, Developing Team Performance. Calgary, AB, Nov 25, 2016.
8. Cumming School of Medicine, University of Calgary: Systematic Review Searching Workshop. Calgary, AB, Nov 22, 2016.
9. Cumming School of Medicine, University of Calgary: Presentation Skills & Feedback Workshop. Calgary, AB Nov 17, 2016.
10. Cumming School of Medicine, University of Calgary: End Note for MACS Workshop. Calgary, AB Nov 16, 2016.



11. Cumming School of Medicine, University of Calgary: Searching MEDLINE systematically Workshop. Calgary, AB, Nov 9, 2016.
12. Cumming School of Medicine, University of Calgary: Learning Objectives and Evaluation Workshop. Calgary, AB, Nov 4, 2016.
13. Cumming School of Medicine Leadership Development Program, University of Calgary: Personal Development, Emotional Intelligence and Peer Coaching & Mentoring. Calgary, AB, Oct 28, 2016.
14. Cumming School of Medicine Leadership Development Program, University of Calgary: Strategic Planning & Leading Through Change: Part 1. Calgary, AB, Sept 16, 2016.
15. Physician Management Institute (PMI): Advanced Level; Talent Management. Calgary, AB Jan 10-12, 2011.
16. Physician Management Institute (PMI): Foundation Level; Management Dynamics. Toronto, ON Oct 17-19, 2010.
17. Physician Management Institute (PMI): Foundation Level; Engaging Others. Vancouver, BC Nov 7-9, 2010.
18. Physician Management Institute (PMI): Foundation Level; Leading Change and Innovation. Vancouver, BC Nov 10-12, 2010.
19. Canadian Medical Association Physician Management Institute (PMI): Disruptive Behavior; resolving personalized conflict. Vancouver, BC Nov 27-28, 2009.

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### RESEARCH - Funding (past 5 years) Peer Reviewed Grants

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#### **Co - Principal Investigator**

Grant Title	Funding Source	Status/Date of Award A-applied R-received ongoing), C-completed	Amount
EMS Systems and Paramedic Care: Because you never know.....	EMS Foundation	May 2013-2016	100,000.00
The Alberta Sepsis Network	Alberta Heritage Foundation for Medical Research(AHFMR) Interdisciplinary Team Grant	R/April 2009 - 2014	4,998,191.00

#### **Principal Investigator**

Grant Title	Funding Source	Status/Date of Award A-applied, R-received (ongoing), C-completed	Amount
An Assessment of the Impact of Time to Paramedic Treatment on Patient Outcomes in the Alberta Emergency Medical Services System: Building a Comprehensive Database and Identifying Patient priorities in Outcomes (Supervisor to Ian Blanchard)	Alberta SPOR Graduate Studentship - Joint Initiatives Alberta Innovates and Canadian Institutes of Health research (CIHR)	R/Jan 2017-Dec, 2017	\$30,000.00
Socioeconomic Status and Outcome from ICU	Canadian Intensive Care Foundation (CICF)	R/October 2007-2008	20,000.00
Effect of Socioeconomic status on care provision and mortality among critically ill patients	Canadian Institutes of Health Research (CIHR)	R/April 2007-2009	60,000.00
Does the standardized follow-up on patients post ICU discharge decrease the incidence of ICU readmission?	Health Quality Council of Alberta (HQCA)	R/June 2006-2006	4,000.00

**Co-Investigator**

Grant Title	Funding Source	Status/Date of Award A-applied, R-received (ongoing), C-completed	Amount
STandard versus Accelerated initiation of Renal Replacement Therapy in Acute Kidney Injury (The STARRT-AKI Study)	Canadian Institutes of Health Research Baxter Healthcare Corporation	R/May 2016-2019	1200.00/patient
The RE-ENERGIZE Study: A RandomizEd trial of ENtERal Glutamine to minimIZE thermal injury	Canadian Institutes of Health Research (CIHR)	R/Nov 2016-2020	2500.00/patient
Bacteremia Antibiotic Length Actually Needed for Clinical Effectiveness (BALANCE): A Pilot Randomized Controlled Clinical Trial	Ministry of Health and Long-Term Care Academic Health Sciences Alternative Funding Plan Innovation Fund Award and Sunnybrook Health Sciences Centre	R/Aug 2016-2021	1500.00/patient
Identifying Barriers and Facilitators to the De-adoption of Low-Value Clinical Practices in Alberta Acute Care Hospitals.	M.S.I. Foundation, Edmonton, Alberta	R/June 2016-2018	108,000.00 (\$98,000 M.S.I foundation, \$10,000 Critical Care Strategic Clinical Network)
Identifying Spiritual Distress in Families of ICU Patients: The INSPIRE Study	M.S.I. Foundation, Edmonton, Alberta	R/June 2016-2018	\$102,600 (\$96,000 M.S.I Foundation, \$6,600 Department of Critical Care Medicine)
Reengineering the discharge of elderly patients from Intensive Care: Preclinical evaluation of a toolkit. (TVN Catalyst Grant).	Canadian Frailty Network (CFN)	R/April 2016-2017	\$99,938.00
Death Prediction and Physiology after removal of therapy (DePPaRT) (Site PI)	Canadian Institutes of Health Research (CIHR)	R/ Sept 2015-2017	Start up: \$3690.00 Per patient:\$307.5 \$201.36 screening per month
Nutritional adequacy therapeutic enhancement in the critically ill: A randomized double blind, placebo-controlled, active-compared trial of the motilin receptor against GSK962040. The NUTRIATE Study (Site PI)	GlaxoSmithKline group of companies. Brentford, Middlesex, United Kingdom through Queen's University, Kingston, Ontario, Canada	R/August 2014-2017	154,270.00
Identifying and Evaluating Intensive Care Unit Capacity Strain In Alberta	AIHS PRIHS – Partnership for Research and Innovation in the Health System	R/Jan 2014-2016	743, 818.00
Reassessing Practices in the Daily Care of Critically Ill Patients: Building Capacity and Methodology to Identify & Close Evidence-Care Gaps	AIHS PRIHS – Partnership for Research and Innovation in the Health System	R/Jan 2014-2016	748,790.00



SONRIS: Sepsis Outcomes National Registry to Improve Survival, Infection and Immunity (Dr John Hummel Boyd)	Canadian Institutes of Health Research (CIHR)	R/2011-2013	600,000.00
Institute for Inflammatory diseases: a common focus for the improvement of health (P. Kubes)	Canadian Foundation for Innovation	R/ 2004-2008	7,171,678.00
Institute for Inflammatory diseases: a common focus for the improvement of health (P.Kubes)	Canadian Institutes of Health Research	R/ 2004-2008	2,009,943.00
Does the standardized follow – up on patients post ICU discharge decrease the incidence of ICU readmission?	Health Quality Council of Alberta (HQCA)	R/2006	4,000.00
Prophylaxis of thromboEmbolism in Critical Care Trial( PROTECT) (D. Cook)	Canadian Institutes of Health Research	R/2005-2005	1,719,380.00

### **Industry Sponsored Funding**

Clinical Trials	Funding Source	Status/ Date of Contract C-completed	Amount
A Phase 2, Multicenter, Randomized, Double-Blind, Comparator-Controlled Study of the Efficacy, Safety, and Pharmacokinetics of Intravenous Ulimorelin (LP101) in Patients with Enteral Feeding Intolerance (Co-Investigator)	Lyric Pharmaceuticals Inc	R/March 2017-2019	10,000.00/patient
Phase 3, Placebo-Controlled, Randomized, Double-Blind, Multi-Center Study of LJPC-501 in Patients with Catecholamine-Resistant Hypotension (CRH) (Angiotensin Study) (Site PI)	La Jolla Pharmaceutical Company	R/May2016-2017	7500.00/patient
DNA Repository Substudy in association with MHAA4549A STUDY GV29216 9 (Genentech Flu Study) (Site PI)	Genentech Inc	R/Oct 2015-2100	122,732.10
Treatment of Septic Shock by Inhibiting Autodigestion and Preserving Gut Integrity with Enteric LB1148 (SSAIL Study)	Leading BioSciences, Inc	R/Sept 2015 – Sept 2018	10,000.00/patient
Automated Epidemiological Analysis Utilizing Nvidia Telsa Technology	NVIDA Academic Partnership Program – Equipment Donation	R/2015-2016	USD 3500.00
A randomized, double-blind. Placebo-controlled, phase 3 study to assess the safety and efficacy of ART-123 in subjects with severe sepsis and coagulopathy.	Asahi Kasei Pharma America Corp.	2013- 2018	3500.00 Start Up 12000.00/per patient
Automated Epidemiological Analysis	NVIDA Academic Partnership	2012-2014	USD 5,000.00





Utilizing Nvidia Telsa Technology	Program – Equipment Donation		
A phase 3 multicentre, randomized, placebo controlled double blind three arm study to evaluate the safety and efficacy of Tifacogin administration in subjects with severe community acquired pneumonia.	Novartis Pharmaceuticals Inc.	2005-2011	300,000.00
TAK 242 01-04-TL-242-011	Takeda Global Research & Development Centre	2006 - 2007	62,000.00
ACCESS: A Controlled Comparison of Eritoran Tetrasodium and Placebo in Patients with Severe Sepsis	Eisai Pharmaceuticals Inc	2007-June 30, 2013	20,000.00
KL4ARDS - 04	Discovery Labs	R/2005	30,000.00
LIPOS-EMD2001	GSK	R/2005	10,000.00
TFP008 CAPTIVATE	CHIRON	R/2005	30,000.00
Non Peer Reviewed Support or no funding			
Validation of an ICD-10 coded case definition for the identification of patients diagnosed with sepsis and severe sepsis using administrative data.	Rachel Jolley-MSc Thesis Project	June 2013-2014	

## PUBLICATIONS

### **Peer Reviewed Articles, Published or In press**

Underlined - work performed by individuals under my supervision (research or clinical)

\*Primary Supervisor

+Co-Supervisor

^Supervisory Committee

#Clinical Supervisor

As reported on Google Scholar:

#### **Citation Indices All Since 2012**

Citations	9781	4187
h-index	45	33
i10-index	85	67

1. Meatherall B, Brown K, Pillai D, Doig C. "Malaria Case Report". Journal of the Association of Medical Microbiology and Infectious Diseases Canada (JAMMI). (In press).
2. Solverson K, Doig CJ. "A fatal case of overwhelming pneumococcal sepsis in a splenectomised patient." CMAJ (In Press) Impact Factor 6.72
3. Roze des Ordon A, **Doig C**, Couillard P, Lord J. From communication skills to skillful communication - a longitudinal integrated curriculum for critical care fellows. Academic Medicine, Acad Med. 2017 Apr; 92(4):501-505. doi: 10.1097/ACM.0000000000001420. Impact Factor 2.93
4. Kramer AH, Couillard P, Bader R, Dhillon P, Kutsogiannis J, **Doig CJ**. Prevention of Hypoxemia during Apnea Testing: A Comparison of Oxygen Insufflation And Continuous Positive Airway Pressure. Neurocrit Care. 2017 Feb 7. doi: 10.1007/s12028-017-0380-0. [Epub ahead of print]. Impact Factor 2.48
5. Kramer AH, Baht R, **Doig CJ**. Time trends in organ donation after neurologic determination of death: a cohort study. CMAJ OPEN. doi: 10.9778/cmajo.20160093 CMAJO January 13, 2017 vol. 5 no. 1 E19-E27. Impact Factor NA
6. Hruska P^, Hecker KG, Coderre S, McLaughlin K, Cortese F, **Doig C**, Beran T, Wright B, Krigolson O, Hemispheric activation differences in novice and expert clinicians during clinical decision making. Advances in Health Science Education, 2016 Dec, 21 (5)921-933. Online (3 Nov 2015) DOI: 10.1007/s10459-015-9648-3. Impact Factor 2.46



7. Kramer AH, **Doig C**. Changing Epidemiology of Organ Donation After Neurological Determination of Death in Canada and Implications For Transplantation: A Cohort Study In Southern Alberta and Corresponding National Data, CMAJ. In Press, September 2016. Impact Factor 6.72
8. Solverson K, Grant C, **Doig CJ**. Assessment and Predictors of Physical Functioning Post-Hospital Discharge in Survivors of Critical Illness. *Annals of Intensive Care*. 2016 Dec; 6(1):92. Epub 2016 Sep 20. Impact Factor 4.82
9. Kramer AH, **Doig CJ**. Premortem Heparin Administration and Location of Withdrawal of Life-Sustaining Interventions in DCD: Lack of High-Quality Evidence Precludes Definitive Conclusions. *Transplantation*. 2016 Oct; 100(10):e102-3. doi: 10.1097/TP.0000000000001378. Impact Factor 3.53
10. Solverson K, Easton PA, **Doig CJ**. Assessment of Sleep Quality Post-Hospital Discharge in Survivors of Critical Illness. *Respiratory Medicine*. 2016 May; 114:97-102. Impact Factor 3.03.
11. Guichon J, Alakija P, **Doig C**, Mitchell I, Thibeault P. Scrupulous monitoring of physician-assisted dying: The case for mandatory reporting to coroners and medical examiners of all physician-assisted deaths in Canada. *Health Law in Canada*. Feb 2016. 36(3) 99-120.
12. Cleary S, Doucette K, **Doig CJ**, Coffin CS, Grant D, Dixon E. Canadian Association of General Surgeons Position Statement: Recommendations for Surgeons with Blood Borne communicable diseases. *Can J Surg*, 2016 Feb 1. 59(1):7615. doi: 10.1503/cjs.007615. Impact Factor 1.62.
13. Kramer AH, Deis N, Ruddell S, Couillard P, Zygun DA, **Doig CJ**, Gallagher C. Decompressive Craniectomy in Patients with Traumatic Brain Injury: Are the Usual Indications Congruent with Those Evaluated in Clinical Trials? *Neurocrit Care* 2016 Jan 5. 10.1007/s12028-015-0232-8. Impact Factor 2.44.
14. Jolley RJ\*, Quam H, Jette N, Sawka KJ, Diep L, Goliath J, Roberts DJ, Yipp BG, **Doig CJ**. Development and validation of an ICD-10 coded case definition for sepsis using administrative health data, *BMJ Open*. Dec 23, 2015;5(12):e009487. Impact Factor 2.23.
15. Stelfox HT, Potestio M, Boyd J, Bagshaw SM, Oxland P, **Doig C**, Zygun D . Engaging the public to identify opportunities to improve critical care: A qualitative analysis of an open community forum. *PLoS One*. Nov 18, 2015. PONE-D-15-27522R1. Impact Factor 3.23.
16. Hruska P^, Krigolson O, Coderre S, McLaughlin K, Cortese F, **Doig C**, Beran T, Wright B, Hecker KG. Working memory, reasoning, and expertise in medicine—insights into their relationship using functional Neuroimaging. *Advances in Health Sciences Education*. 25 October 2015. DOI 10.1007/s10459-015-9649-2. Impact Factor 2.12.
17. Stelfox HT, Niven DJ, Clement FM, Bagshaw SM, Cook DJ, McKenzie E, Potestio ML, **Doig CJ**, O'Neill B, Zygun D; Critical Care Strategic Clinical Network, Alberta Health Services. Stakeholder Engagement to Identify Priorities for Improving the Quality and Value of Critical Care. *PLoS One*. 2015 Oct 22;10(10):e0140141. doi: 10.1371/journal.pone.0140141. Impact Factor 3.23.
18. Yergens DW\*, Ghali W A, Faris P, Quan H, Jolley RJ and **Doig CJ**. Assessing the Association between Occupancy and Outcome in Critically Ill Hospitalized Patients with Sepsis. *BMC Emergency Medicine*. October 2015, 15:31.
19. Jolley RJ\*, Sawka KJ, Yergens DW, Quan H, Jetté N, **Doig CJ**. Validity of administrative data in recording sepsis: a systematic review. *Critical Care* 2015 Apr 6;19:139. Impact Factor 5.04. Cited by 5.
20. Kirkpatrick AW, Roberts DJ, Faris PD, Ball CG, Kubes P, Tiruta C, Xiao Z, Holodinsky JK, McBeth PB, **Doig CJ**, Jenne CN. Active Negative Pressure Peritoneal Therapy After Abbreviated Laparotomy: The Intraperitoneal Vacuum Randomized Controlled Trial. *Ann Surg*. 2015 Jul;262(1):38-46. Impact Factor 7.18. Cited by 5.
21. The E-PROTECT Investigators: (Canada) Chan B; Cook D; Dodek P; **Doig CJ**; Ferguson N; Fowler R; Geerts W; Guyatt G; Hall R; Heels-Ansdell D, Jacka M; Marshall J; McIntyre L; Mehta S; Mittmann N; Muscedere J; Ormanidhi O, Pinto R; Skrobik Y; Sud S; (Australia) Cade J; Cooper J; Finfer S; Orford N; Seppelt I; (United States) Gould MK; Klinger J; Vlahakis N; (Saudi Arabia) Arabi Y; Qushmaq I; (Brazil) Rocha MG. Cost-effectiveness of dalteparin versus unfractionated heparin for the prevention of venous thromboembolism in critically ill patients: a prospective comparative economic evaluation of the Prophylaxis for Thromboembolism in Critical Care Trial (PROTECT). *Crit Care Med*. *Trials*. 2014 Dec 20;15(1):502. Impact Factor 6.14. Cited by 3.
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123. **Doig CJ**, Harasym PH, Fick GH, Baumber J. The Effects of Examiner Background and Station Organization on OSCE Scores that Assess Undergraduate Medical Student Physical Examination Skills. *Acad Med* 2000; 75 (Suppl): S96-98. Impact Factor 3.47. Cited by 7.
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126. **Doig C**. Education of Medical student and house staff to prevent occupational exposure. *CMAJ* 2000; 162: 344-5. Impact Factor 5.81. Cited by 10.
127. Mitchell I, **Doig CJ**. Placebo controlled n-of-1 trials in cystic fibrosis. *Eur Respir J* 1999; 14: 993. Impact Factor 6.36. Cited by 4.
128. Kortbeek JB, Haigh PI, **Doig C**. Duodenal versus gastric feeding in ventilated blunt trauma patients: A randomized controlled trial. *J Trauma* 1999; 46(6): 992-998. Impact Factor 2.96. Cited by 1.
129. **Doig CJ**, et al. Increased intestinal permeability is associated with the development of multiple organ dysfunction syndrome in critically ill ICU patients. *Amer J Respir Crit Care Med* 1998; 158: 444-51. Impact Factor 11.99. Cited by 167.
130. **Doig CJ**, Kinsella TD. The ethics of anticytokine therapy in RA. *J Rheum* 1998; 25(11): 2053-55. Impact Factor 3.26
131. Goldstein L, **Doig C**, Gant P, Powell G, Nissen-Jordan C, Johnston R, Kortbeek J. Analysis of Rural to Tertiary Care Patient Transportation Systems: An Analytical Tool for Systematic Review of Time Variables With Different Modes of Transportation. *J Trauma Acute Care Surg* 07/1997; 43(2):394. Impact Factor 0.00. Cited by 1.
132. Goldstein L, **Doig CJ**, Gant P, G. Powell, Nissen-Jordan C, Johnston R, Kortbeek J. Analysis of rural to tertiary care patient transportation systems. *J Trauma* 01/1997. Impact Factor 1.97.
133. **Doig C**. Aerosolized surfactant in the treatment of ARDS. *JAMA* 1995; 273: 1259-60. Impact Factor 30.39. Cited by 139.
134. **Doig C**, Gill JM, Church DL. *Rhodococcus equi*: an easily missed opportunistic pathogen. *Scan J Infect Dis* 1991; 23: 1-6. Impact Factor 1.64. Cited by 34.

#### Submitted Articles:

1. Baxter L, Chen S, Couillard P, Scott J, **Doig CJ**, Costello F, Girard L, Klassen J, Burton J. Refractory longitudinally extensive transverse myelitis responsive to cyclophosphamide. *Can J Neurol Sci* 2017 (in press).
2. Arnold D, Lauzier F, Albert M, Williamson D, Lin, Zarychanski R, **Doig C**, Mcintyre L, Frietaga, Crowthm, Crowther M, Saunde L, Clarke F, Bellomo R, Qushmaq I, Lopes R, Ansdell, Webert K, Cook D. The Association Between Platelet Transfusions and Bleeding in Critically Ill Patients with Thrombocytopenia" Research and Practice in Thrombosis and Haemostasis. (In Press).
3. Guichon J, Alakija P, **Doig C**, Mitchell I, Thiebault P. Coroners and Medical Examiners: The Logical Office to Monitor Physician-Assisted Dying in Canada. Policy Options. (Submitted Jan 4, 2016).
4. Posadas J, Stelfox T, Ferland A, Zuege D, Niven D, Berthiaume L, **Doig CJ**. Derivation of a PIRO score for prediction of mortality in surgical patients with severe intra-abdominal sepsis/septic shock". *AJCC*. (In Press November 2015).

#### Lay Press and Non-Peer Reviewed Articles (Internet Publication):

1. **Doig CJ**, Boucher P. Opinion: Time to recognize opioid crisis as a public health emergency. *Edmonton Journal*, March 16, 2017.
2. Guichon J, **Doig C**, Mitchell I, Are Jehovah's Witnesses free to make informed decisions about blood transfusions? (<http://healthydebate.ca>) November 16, 2016.
3. **Doig C**, Simon J. How to Talk About Death and Dying. *Avenue Magazine*. May 5, 2016.
4. Guichon J, Alakija P, **Doig C**, Mitchell I, Thibeault P. Canadian Judges have allowed (and Hidden) Doctor Assisted Deaths. (The Huffington Post) March 29, 2016.
5. Guichon J, Alakija P, **Doig C**, Mitchell I, Thibeault P. Canada Marches Toward Expansive Aid in Dying. (Bioethics Forum) March 2, 2016.
6. Guichon J, Alakija P, **Doig C**, Mitchell I, Thibeault P. The Scrupulous monitoring of physician-assisted dying. (The Huffington Post) February 25, 2016.
7. Walker I, **Doig CJ**. Less science, more diversity: How Canadian medical schools admissions are changing. (<http://healthydebate.ca>) December 17, 2015.
8. Guichon J, **Doig C** and Mitchell I. Doctor-assisted suicide: The next steps for Canada's physicians, Contributed to The Globe and Mail, Published Monday, Feb. 09 2015.



9. Vanessa Milne, **Doig CJ** & Irfan Dhalla. Changes ahead for international medical graduates hoping to practise in Canada. (<http://healthydebate.ca>) June 5, 2014.
10. Born K, T Joshua, **Doig CJ**. Tensions around physicians and environmental advocacy. (<http://healthydebate.ca>) May 8, 2014.
11. Dalal M, **Doig CJ**, Laupacias A. Paying for plasma- Canada's double standard? (<http://healthydebate.ca>) Apr 17, 2014.
12. Ikura S, **Doig CJ**, Laupacias A. The evidence and politics of mandatory health care worker vaccination. (<http://healthydebate.ca>) Feb 6, 2014.
13. Doig CJ. Is it time for doctors to abandon the white lab coat? (<http://healthydebate.ca>) Dec 11, 2013.
14. Guichon J, Mitchell I, Page S, Doig CJ. Federal position on medical heroin ignores evidence, hurts patients. (<http://healthydebate.ca>) Nov 27, 2013.
15. Born K, **Doig CJ** & Pendharkar S. Integrating Physician Assistants in Canada. (<http://healthydebate.ca>) Dec 5, 2013.
16. Patch J, **Doig CJ**, Tierny M. Experts warn bureaucratic duplication in research ethics delaying important science. (<http://healthydebate.ca>) October 24, 2013.
17. Patch J, **Doig CJ**, Dhalla I. Fewer hospital staff on weekends puts some patients at risk (<http://healthydebate.ca>) August 1, 2013.
18. Silversides A, **Doig CJ** and Sullivan T. Canadian Diabetes Strategies Under Fire as Diabetes Rates Continue to Rise. (<http://www.linkedin.com/groups/Healthydebate-4130959>). May 9, 2013.
19. Stall N, **Doig CJ**, and Teppler J. Planning for Care at the End of Life: Our Collective Responsibility. <http://healthydebate.ca> May 30, 2013.
20. Guichon J, **Doig CJ**, Mitchell I. A pressing question of life, death. Contributed to Edmonton Journal (Edmonton Alta). Published July 9, 2011
21. Guichon J, **Doig C**. Lessons from the Golubchuk case. Contributed to National Post (Don Mills, Ontario). Published June 26, 2008.
22. Guichon J, **Doig C**. Who decides when enough is enough? Contributed to The Globe and Mail, Published Feb. 19 2008.
23. **Doig C**. Concepts of death. Contributed to Persons, Humanity, and the Definition of Death by John P Lizza, Johns Hopkins University Press, 2005.

#### Chapters, Books and Scholarly Reviews:

1. **Doig CJ**. Canada: Where Have We Been? ICU Resource Allocation in the New Millennium. D. Crippen Editor. 2013. Springer-New York. pp17-24.
2. **Doig CJ**. Needlestick injuries: prompt action can keep you safe. Parkhurst Exchange 2003; 11: 82-83.
3. Zygun DA, **Doig CJ**. Measuring organ dysfunction. *Yearbook of Intensive Care & Emergency Medicine*, J.L Vincent, Editor. 2002, Springer-Verlag, Berlin.
4. Gill V, Kubes P, **Doig CJ**. Alpha 4-integrin: a novel mechanism for neutrophil – endothelial dysfunction. *Yearbook of Intensive Care & Emergency Medicine*, J.L Vincent, Editor. 2002, Springer-Verlag, Berlin.
5. **Doig CJ**, Sandham JD. Determining if fluid therapy is necessary. *Fluid Management in the Critically Ill*, W. Sibbald, Editor. 2001, Core Health Service Inc., p50-66.
6. Yergens D, **Doig CJ**, Sandham JD. (1995) Experiences in Health Information Technology: Computer Simulation Modeling for Predicting ICU Bed Requirements in a Tertiary Care Hospital. *International Medical Informatics Association 8<sup>th</sup> World Congress on Medical Informatics*.

#### Published Abstracts:

1. Blanchard I, Patel A, Lane D, Couperthwaite A, Chisholm D, Yergens D, Lorenzetti D, Lazarenko G, Lang E, **Doig C**, Ghali W. Systematic Review of The Association Between EMS Time Factors And Survival. Pre Hospital Emergency Care January/ February 2017 Volume 21, Number 1.
2. Couperthwaite Amy B, Blanchard I, Chisholm DA, **Doig CJ**, Aguirre AN, Vogelaar GA, Almansoori W, Embree T, Voaklander D, Hagel BE. Emergency Medical Services Response Time and Pediatric Mortality and Morbidity in Two Urban Centers in Alberta, Canada. Pre Hospital Emergency Care January/ February 2017 Volume 21, Number 1.
3. Blanchard IE, Patel A, Yergens D, Chisholm D, Lane D, Couperthwaite A, Lorenzetti D, Lang ES, Lazarenko G, **Doig CJ**, Ghali WA. A systematic review of the association between EMS response time and mortality. Prehospital Emergency Care. January/February 2016 Volume 20 / Number 1.
4. Linton K, Blanchard I, **Doig CJ**, Dowling S, Moir G, Zuegel D, Henderson E. The Impact of Ventilator Associated Pneumonia Among Prehospital Intubated Patients. Abstract accepted as a poster presentation at the CHICA-Canada 2013 National Education Conference, Ottawa, ON. June 1-5, 2013
5. Yergens DRJ, **Doig CJ**, KSv2: Application for enhancing scoping and systematic reviews. American Medical Informatics Association (AMIA), 2012
6. Hennessy D, Noseworthy T and **Doig CJ**. Characteristics of homeless patients admitted to a critical care service in Calgary over a five year period. Canadian Society of Health Services and Policy Research, BMC Health Services Research Toronto May 2010.





7. Shahpori R, Stelfox HT, **Doig CJ**, Boiteau PJE, Zygun DA. Sequential Organ Failure Assessment in Pandemic Planning. *Critical Care* 1 March, 2010, 14 (Suppl 1): P477
8. Guichon J, **Doig CJ**. Life support and the court: Who decides when enough is enough. *The Globe and Mail, Abstract (Summary)*, February 19, 2008, pg. A.17.
9. Quach S, Hennessy D, Fong A, Quan H, Faris P, and **Doig CJ**. Performance of the Charlson Score in Intensive Care. *Crit. Care Med.* 2007; 35 (12)(Supplement), A1
10. Hennessy D, Quach S, Fong A, Quan H, Faris P, and **Doig CJ**. Charlson and Elixhauser Co-morbidities in ICU Patients. *Crit. Care Med.* 2007; 35 (12)(Supplement), A
11. Fowler R, Pinto R, Sud S, Chan B, Mittmann N, Geerts W, Murray L, Cooper J, Wagner T, Gould M, Hennessy D, Dean S, **Doig CJ**, Anis A, Dodek P, Guyatt G, Zytaruk N, Cook D. Variability of Direct Medical Costs among Centers and Countries in the Prospective Evaluation of the Prophylaxis for Thromboembolism in Critical Care Trial. *Crit. Care Med.* 2007; 35 (12)(Supplement), A1
12. Zygun D, Stelfox T, Kirkpatrick AW, Pearce S, **Doig CJ**, Laupland K. Serum Sodium Concentration and intracranial pressure in neurocritical care, *Critical Care Medicine*, 2007
13. Hennessy, D., Zygun, D., and **Doig CJ**. Impact of age and level of care on hospital survival of critically ill adult patients in a Canadian Health Region. Toronto Critical Care Medicine Symposium, 2006.
14. Hennessy, D., Yergens, D., Juzwishin, K., Noseworthy and **Doig CJ**. Outcome of Critical Illness in an Elderly Patient Population. American Thoracic Society Conference, 2004.
15. Hennessy, D., Yergens, D., Juzwishin, K., Noseworthy, T., Zygun, D., Boiteau, P., and **Doig CJ**. Survival and Quality of Life of Patients Admitted to a Multidisciplinary Intensive Care Unit (ICU) with Acute Physiology and Chronic Health Evaluation Score (APACHE II) > 40. American Thoracic Society Conference, 2004.
16. Juzwishin, K., Hennessy, D., Bowen, G., Yergens, D., and **Doig CJ**. Gender differences in reporting of HRQOL in intensive care unit survivors. *Quality of Life Research.* 2003 Nov;12(7):791.
17. Hennessy, D., Juzwishin, K., Bowen, G., and **Doig CJ**. Age and Severity of Disease are Associated with Health Related Quality of Life in Intensive Care Survivors. *Crit. Care Med.* 2003; 31(Supplement 2), A141.
18. Bowen, G., Hennessy, D., Juzwishin, K., and **Doig CJ**. A One-Year Health Related Quality of Life Study in the Intensive Care Unit. *Critical Care Medicine*, 2003; 31:2, A30. *Crit. Care Med.* 2003; 31(Supplement 2), A30.
19. Juzwishin, K., Bowen, G., Hennessy, D., and **Doig CJ**. Trauma Patients Have More Significant Impairments in Health Related Quality of Life Compared to Other Intensive Care Unit Patients. *Crit Care Med.* 2003; 31(Supplement 2): A140.
20. Hennessy DA, Juzwishin K, Bowen G, Jaber K, Manns B, Ghali W, **Doig CJ**. Effect of age and severity of disease on health related quality of life in intensive care survivors. *Crit Care Med* 2002; 30 (12 Suppl): A166.
21. Bowen G, Juswishin K, Hennessy D, Manns B, Ghali W, **Doig CJ**. A one-year quality of life study in the intensive care unit: preliminary analysis at 6 months. *Crit Care Med* 2002; 30 (12 Suppl): A30.
22. Juzwishin KD, Bowen G, Hennessy D, Jaber K, Hameed M, Kortbeek J, **Doig CJ**. Trauma patients have more significant impairments in health related quality of life (HRQOL) compared to other intensive care unit (ICU) patients. *Crit Care Med* 2002; 30 (12 Suppl): A140.
23. Zygun DA, Doig CJ. Measuring Organ Dysfunction, 2002. Cited by 5.
24. Zygun D, **Doig CJ**, Gupta A et al. Sequential organ failure assessment in neurocritical care. International Symposium on Intensive Care and Emergency Medicine. Brussels. March 2003.
25. Yokaba M, Hawes HG, Atkar RS, Ramsay GI, **Doig CJ**, Easton PA. *Am J Resp Crit Care Med*, 2001; 163: A687.
26. **Doig CJ**, Sandham JD, Boiteau PBE, Rosenal T. *Am J Resp Crit Care Med*, 2001; 163: A801.
27. **Doig CJ**, Mitchell I, Hall, K. Informed consent for ICU research: beliefs of families of ICU patients. *Am J Resp Crit Care Med*, 2001; 163: A897
28. Winston B, Krein PM, Sabatini W, Tinmouth W, Gelfand G, McFadden S, Brisebois R, **Doig CJ**, Green FHY. Retrospective and prospective analysis of IFG-1 induction in persistent ARDS. *Am J Resp Crit Care Med*, 2001; 163: A140.
29. Winston B, Krein PM, Sabatini W, Tinmouth W, Brisebois R, **Doig CJ**, Green FHY. IGF-1 is upregulated in fibroproliferative ARDS. *Critical Care Medicine* 2000; 28.
30. Ibbotson, G, **Doig CJ**, Kubes P. Increased leukocyte recruitment response in septic ICU patients. *Clin Inv Med (suppl)* 1998: S26.
31. Goldstein L, **Doig CJ**, et al. Analysis of rural to tertiary care patient transportation systems: an analytical tool for systematic review of time variables with different modes of transportation. *J Trauma* 1998; 45: 394.
32. Kortbeek J, Haigh P, **Doig CJ**. Duodenal vs gastric feeding in ventilated trauma patients: a randomized controlled trial. *J Trauma* 1998; 45: 197.
33. **Doig CJ**, et al. Intestinal permeability predicts outcome in the ICU. *Am J Resp Crit Care Med* 1995; 151(4): A634.
34. **Doig CJ**, et al. Computer simulation modeling in the ICU. *Am J Resp Crit Care Med*, 1995;151: A613.
35. **Doig CJ**, et al. The old elderly: do they benefit from ICU? *Clin. Invest Med* 1995; 18: B23.
36. **Doig CJ**, et al. Cardiopulmonary arrest outcome in a tertiary care hospital. *Clin Invest Med* 1995;18:B23.
37. **Doig CJ**, Computer simulation modeling for predicting ICU bed requirements. *Clin Invest Med* 1995;18:B23.
38. **Doig CJ**, et al. Ethics training for residents at the University of Calgary. *Clin Inv Med* 1994; 17(4): B10.
39. **Doig CJ**, et al. Intestinal permeability in patients admitted to the ICU. *Clin Inv Med* 1994; 17(4): B21.



## Posters:

1. Characteristics of homeless patients admitted to critical care services in Calgary over a five year period. Hennessy D, Noseworthy T. and **Doig CJ** Canadian Association of Health Services and Policy Research. May 10-13, 2010 Westin Harbor Castle Hotel, Toronto, ON.
2. Sequential Organ Failure Assessment in Pandemic Planning, Shahpori R, Stelfox HT, **Doig CJ**, Boiteau PJE, Zygun DA, International Symposium of Intensive Care And Emergency Medicine, March 8-12, 2010 Brussels
3. Hennessy D, **Doig CJ**. Socioeconomic status, mortality and care provision among critically ill patients. Canadian Association of Health Services Policy Research Annual Meeting, Westin Calgary, May 11-14, 2009
4. Zygun DA, Stelfox HT, Kirkpatrick AW, Pearce SM, **Doig CJ**, Laupland KB, Serum sodium concentration and intracranial pressure in neurocritical care. *Society of Critical Care Medicine, Hawaii* 2008 February.

## Graduate Student Supervision:

## Primary Supervisor:

1. Committee Supervisor: Ian Blanchard, PhD. Title: The Epidemiology of Emergency Medical Services. University of Calgary, January 2016-present.
2. Faculty Mentor: Kristen Hamilton, BHSc Mentorship Program 2015/16, 2<sup>nd</sup> year Health & Society. University of Calgary. November 1, 2015- present.
3. Faculty Mentor: Isabel Everen, BHSc Mentorship Program 2015/16, 3rd year Health & Society. University of Calgary. November 1, 2015- present.
4. Committee Supervisor: Michael Sukjoon ji PhD Medical Science. Sustained Hypoxia: Respiratory Muscles and Ventilation. UofC. 2012-Jan 2014. Defended Jan 20, 2014.
5. Faculty Mentor: Aaron Switzer, Student Class of 2017.
6. Supervisor: Nicola Louise Lefevre. MSc MDSC, Medical Science-Critical Care, UofC. Compassion fatigue in Critical Care and EMS. January 1, 2012-present.
7. Supervisor: Rachel Jolley. MSc. Department of Community Health Sciences, MDCH, UofC. Validation of an ICD-10 coded case definition for the identification of patients diagnosed with sepsis and severe sepsis using administrative data September 2010 – Jan 2014. Defended January 21, 2015.
8. Supervisor: Kevin Solverson, MSc, Medical Sciences. Assessment of long term outcomes in survivors of ICU. September 2010 - 2013.
9. Supervisor: Juan Posadas Calleja. MSc. Community Health Sciences. Derivation and validation of a mortality predictive model based on PIRO in sepsis. September 2007 – 2012.
10. Supervisor: Luc Berthiaume. MSc. A cost utility analysis of decompressive craniectomy in malignant MCA strokes. Department of Community Health Sciences. September 2005 - November 2009.
11. Supervisor: Deirdre Hennessey. PhD. Community Health Sciences, UofC. Effect of socio economic status on care provision and mortality among critically ill adult patients. September 2004 - February 2010.
12. Supervisor: Ian Blanchard. MSc. Community Health Sciences, UofC. Advanced life support ambulance response time and survival in a large urban emergency medical services system. September 2007 - October 2009.
13. Supervisor: Susan Quach. MSc. Community Health Sciences, UofC. A comparison between 3 risk adjustments for predicting one year mortality in critically ill adult patients. Defended 2008.
14. Supervisor: Brian Forzley, MSc, Health Services Research, UofC, Understanding the decision to withhold continuous renal replacement therapy: a systematic review and delphi approach involving physicians and the public, September 2007 (Withdrew from the Program).
15. Supervisor: Ulricke Dehaeck. MSc. Community Health Sciences, UofC. A study of differential outcomes between sexes in the clinical course of multiple organ dysfunction. Defended 2007.
16. Supervisor: Mauricio Munroy. MSc. Community Health Sciences, UofC. Can failure of hemodialysis vascular access be predicted by the initial blood flow measurement? Defended 2007.
17. Supervisor: Sean Bagshaw. MSc. Community Health Sciences, UofC. Epidemiology of acute renal failure. Defended 2005.
18. Supervisor: Anthony Delaney. MSc. Community Health Sciences, UofC. The applicability of meta-analyses to guide clinical practice in Critical Care. Defended 2005.
19. Supervisor: Jayson Dool. MSc. Community Health Sciences, UofC. Epidemiology of breast reconstruction following mastectomy and cost - outcome analysis of autologous vs Implant- Based breast reconstruction in the Calgary Health Region. Defended 2004.
20. Supervisor: David Zygun. MSc. Community Health Sciences, UofC. Non-neurological organ dysfunction in traumatic brain injury. Ddefended 2004.
21. Supervisor: Lianne Barnieh. MSc. Community Health Sciences, UofC. Organ and Tissue Donation. Defended 2004.
22. Supervisor: Kelsey Juzwishin. MSc. Community Health Science, UofC. Health related quality of life in survivors of ICU. Defended 2003.
23. Supervisor: Chris Hall. MSc. Community Health Sciences, UofC. Pharmacologic Adjuncts for endotracheal intubation by general duty paramedics in the prehospital environment. Defended 2003.



## Co-Supervisor:

1. Co-Supervisor: Aziza Al Rawahi, MSc, Medical Science. Master's project is on the "Effects of active negative pressure peritoneal therapy on systematic inflammatory response". Supervisor: Dr Kirkpatrick. University of Calgary September 2014- present.
2. Co-Supervisor: Fatma Al Hinai, MSc, Medical Science. Master's project is on the "Effects of active negative pressure peritoneal therapy on systematic inflammatory response". Supervisor: Dr Kirkpatrick, University of Calgary September 2014- present.
3. Co-Supervisor: Adrienne Ma. MSc. Medical Sciences (IRG). Role for platelet TLR4 in sepsis. Defended 2008.
4. Co-Supervisor: Varinder Gill. MSc. Medical Sciences (IRG). Leukocyte recruitment in sepsis. Defended 2006.
5. Co-Supervisor: John Hwang. MSc. Medical Sciences (IRG). Leukocyte recruitment in contact sensitivity. Defended 2004.
6. Co-Supervisor: Elijah Dixon. MSc. MPH-Harvard School of Public Health/ Surgical Science Program UofC. Outcome of hepatobiliary surgery for cancer by surgical centre. Defended 2004.

## Committee Member:

1. Committee Member: Kimberley Simmonds, PhD, University of Calgary. A mathematical model for optimal admission screening for methicillin resistant staphylococcus aureus in acute care facilities. September 2013-December 2015. Defended on Dec 10, 2015.
2. Committee Member: Amy Couperthwaite, MSc. University of Calgary. Emergency Medical Services Response Time and Mortality in Paediatric Trauma Patients in the Urban Setting: A Cohort Study. October 2012-September 2015. Defended in September 2015.
3. Committee member: Pam Hruska. Masters of Medical Education, Faculty of Medicine. January 2012-May 2015 Neuroimaging Clinical Reasoning. Defended in May 2015.
4. Committee Member: Mehdi (Mohammad Banoei). PhD. Potential use of metabolomics in CAP diagnosis and prognosis. September 2010 – December 2014. Defended in December 2014.
5. Committee Member: Dean Yergens. PhD. Approaches for understanding and improving patient flow in acute care hospitals. September 2009 – August 2015. Defended in August 2015.
6. Committee Member: Michael Suksoon Ji. MSc. Uof C. Sustained Hypoxia: Ventilation and muscle function. September 2009 – January 2015. Defended in January 2015.
7. Committee Member: Kathyryn Linton. Ventilator- Associated Pneumonia (VAP) among patients who have endotracheal intubation (EIT) in the pre-hospital setting. University of Calgary. September 2009 – present.
8. Committee Member: Andrea Smailys. MSc. UofC. High frequency oscillatory ventilation (HFOV). September 2008 – present.
9. Committee Member: Steven Johnson. PhD. UofC. Mechanism of Pulmonary Neutrophil Sequestration Secondary to Intra- Abdominal Sepsis. September 2006 – 2009.
10. Committee Member: Paul Renfrew. MSc. Community Health Sciences, UofC. Does the model for end-stage liver disease accurately predict the occurrence of 90-day wait list mortality in Atlantic Canadian liver transplant candidates? A ventilation study. September 2008 – 2011.
11. Committee Member: Jennifer Grossman. MSc. The role of a 4-integrin in neurophil recruitment in chronic and acute inflammation.
12. Committee Member: Stephanie Pearce. Master of Biomedical Technology (MBT). Defended 2008.
13. Committee Member : Jamie Mitchell, Medical Sciences, (Physiol), PhD, The relationship of mechanical ventilation to ventricular interaction.
14. Committee Member: Wayne Rosen. MSc. Office of Medical Bioethics. Ethical issues in Industry sponsored research. Defended 2005.
15. Committee Member: Audrey Lim. MSc. Community Health Sciences, UofC. Organ and Tissue donation in pediatrics. Defended 2005.
16. Committee Member: Brendan Murphy. MSc. Community Health Sciences, UofC. The determinants of successful development of native arteriovenous fistulae in a prospective cohort of incident ESRD patients. Defended 2004.
17. Committee Member: Sandra Rogers. MN. Nursing, knowledge, attitudes and beliefs of intensive care nurses regarding brain death and the donation process-a survey. Defended 2004.

## Internal/External Examiner/Neutral Chair:

1. Neutral Chair: Master's Exam, September 11, 2012.
2. Neutral Chair: Candidacy Oral Examination. Alicia Carolina Ponton-Carss. November 18, 2010.
3. External Examiner: Defense. Zdravko Zjalic. MN Comprehensive Written Exam. April 20, 2010.
4. External Examiner: Zdravko Zjalic. MN. Comprehensive Written Exam, University of Calgary. April 2010.
5. Internal/External Examiner. Candidacy Oral Examination. Kiran Manhas. March 17, 2009
6. Internal/External Examiner. Candidacy Oral Examination. Steven Johnson. December 15, 2009
7. Internal/External Examiner. Comprehensive Oral Examination. Stephanie Todd. September 11, 2008
8. Internal/External Examiner. Comprehensive Oral Examination. Marianne Boucher (MN). May 29, 2007
9. Internal/External Examiner. Master's Thesis Oral Examination. Audrey Yen Lim. July 4, 2005
10. Internal/External Examiner. Comprehensive Oral Examination. Karen Janet Brown (MN), April 18, 2005



11. Internal/External Examiner. Comprehensive Oral Examination. Patricial Louise Long (MN). April 18, 2005
12. Internal/External Examiner. Comprehensive Oral Examination. Janet Colleen Fraser (MSN). May 28, 2003
13. Internl/External Examiner. Comprehensive Oral Examination. Stacey Dawn Litvinchuk (MSN). June 3, 2002
14. Internal/External Examiner. Comprehensive Oral Examination. Jane Bartlett, (MScN). May 23, 2000

External Reviews:

1. External Review: Faculty of Medicine, University of Manitoba, Respiratory Therapy Department, April 2010
2. External Review: University Health Network, Princess Margaret Hospital, March 2008.

Invited Presentations (since 2000):

1. Health Law Class, University of Calgary, Faculty of Law, Calgary, Alberta. April 3, 2017.
2. Speaker at the Science in the Cinema, "The Constant Gardner", The O'Brien Institute for Public Health, University of Calgary, Alberta. November 16, 2016.
3. Futility and End of Life Care in the ICU- Health Law Class, University of Calgary, Faculty of Law, Calgary, Alberta. April 4, 2016.
4. Panelist at Friday at the Medical School-Physician Assisted Death (PAD), Calgary, AB, March 11, 2016.
5. Moderator at 2016 Alberta Society of Intensive Care Physicians. Title: "The health care system moving forward in the 21st century: will the medical profession lead, engage, or undergo apoptosis?" Banff, Alberta, January 21-24, 2016.
6. Bow Valley PCN 'Physician Assisted Death' Panel, Banff Park Lodge in Banff, November 16, 2015.
7. Respiratory Therapy Program, SAIT. Title: "Leadership and Team Building", SAIT, Calgary, Alberta, September 29, 2015.
8. Panelist at 2015 National Health Law Summit: Critical Issues in Health Law, Banff, Alberta. May 21-22, 2015. Title: Angst and uncertainty in Health Care Decision-Making: the challenges of legal and medical practice post-Rasouli.
9. Health Law Class, University of Calgary, Faculty of Law, Calgary, Alberta. March 24, 2015.
10. SHC and RGH ICU/CCU Spring Update. Title: Surviving Sepsis. Calgary, Alberta, March 24, 2015.
11. "Introduction- Why this day matters". U of C – Scientific Integrity and Ethical Research. Calgary, Alberta, January 15, 2014
12. Respiratory Therapy Program, SAIT. Title: "Leadership and Team Building", SAIT, Calgary, Alberta, October 14, 2014.
13. Panelist at Accelerating Innovation Symposium: Telling the Brain Story to Inspire Action, Telus Convention Centre, Calgary, Alberta, October 10, 2014.
14. Celebrating World Sepsis day, Nursing Education Day. Title: Welcome and World Sepsis day overview, Calgary, Alberta, September 11, 2014
15. Celebrating World Sepsis day, Nursing Education Day. Title: Discussing the life altering disease of sepsis and real life interactive demonstrations experienced in his sepsis follow-up clinic at the Foothills Medical Centre. Calgary, Alberta, September 11, 2014
16. Celebrating World Sepsis day, Nursing Education Day. Title: The global importance of World Sepsis day as a means of spreading the word of sepsis awareness. Calgary, Alberta, September 13, 2014.
17. Symposium: Influenza Immunization in the Healthcare Workplace. Plenary Session: Influenza- At the Bedside, Calgary, AB June 11, 2014
18. Opening Plenary Session: Ethics of Intervention Vs. Prevention. Canadian Council of cardiovascular Nurses Conference, Calgary, AB, June 7, 2014
19. Panelist at Café Scientifique- How would you improve life saving care in Alberta, Calgary, AB, June 5, 2014
20. Moderator, Canadian Medical Association, 2014 Canadian Respiratory Conference: Plenary Session: Palliative Management of Intractable Dyspnea, Calgary, AB. April 26, 2014.
21. 2014 Internal Medicine Resident Research Day Poster Judge, 2014 Internal Medicine Resident Research Day, Calgary, AB, April 24, 2014.
22. Canadian Anesthesiologist's Society Conference. Session: Top Neuroanesthesia Articles of the Year. Calgary, AB. June 24, 2013.
23. Department of Critical Care Medicine Grand Rounds. Vision for the Department: "Department of Critical Care Medicine...Qou vadis?" Calgary, AB. June 5, 2013.
24. 2013 National Health Law Summit: Critical Issues in Health Law. Panel Members: Doig C, Downie J, Somerville M, Underwood H. Panel Title: Legal and Ethical Challenges in Critical Care and End-of-Life Decision Making. Halifax, NS. May 23, 2013. ASN Special Seminar. Grant Strategy Options – Post ASN. Presenters: C Doig and D Zygun. Calgary, AB. May 23, 2013.
25. 2012 Canadian Health Policy Assembly. Moderator-Session 2: The Roles of eHealth, mHealth, Informatics and Social Media in Managing Chronic Disease. November 9, 2012.
26. 2012 Canadian Health Policy Assembly. Panelist – Session 1: Prevention and Management of Chronic Disease, Banff AB. November 8, 2012.
27. Block Week, Presentation to new students. September 4, 2012.
28. SAIT Preceptor Education Day. Evaluating Medical Trainees. June 12, 2012.
29. 4<sup>th</sup> Annual ASN Retreat. (1)Broad Overview of Clinical Networks; (2) Future Clinical Directions and Introduction to the Afternoon Forum. Red Deer, AB, June 7, 2012.



30. Alberta Health and Wellness. Lunch and Learn. Understanding Sepsis: Policy Considerations. May 30, 2012, Edmonton, Alberta.
31. 7<sup>th</sup> Annual Canadian Liver Transplant Forum. Futility in the Intensive Care Unit: Will it Become Futile? Toronto, Ontario. April 12, 2012
32. Alberta Sepsis Network: Fellows Research Information Session Chair. ASN Overview: Our strengths and research opportunities. Calgary, Alberta. February 2, 2012.
33. Canadian Health Policy Assembly. Panelist-Session 1: Policy Options: Time for a Game Change? Banff AB. October 28, 2011.
34. American Society for Bioethics and Humanities (ASBH) Annual Meeting. Panel Session (311). A new approach to the problem of religious refusal of blood transfusion. Minneapolis, MN. October 15, 2011.
35. HYRS Program Panel. Calgary AB. August 3, 2011.
36. Canadian Science Writers Association. Medical Science. Calgary AB. June 11, 2011.
37. Alberta Innovates-Health Solutions: Making Connections Conference. Short snapper on intensive care. Jasper AB. June 4, 2011.
38. Summit Foundation: Research in Cystic Fibrosis at the University of Calgary. Hope for the Future. Calgary AB. April 14, 2011.
39. University of Calgary GI Research Group. IBD. Session Chair. Banff, Alberta. March 19, 2011
40. Canadian Blood Services. Panelist. Physician specialist in organ donation. Whistler, BC. February 20-23, 2011
41. Summit Foundation. Research in cystic fibrosis at the University of Calgary. Hope for the future. Calgary, AB. February 14, 2011
42. IHE/CHSRF Invitational Forum. Panel. National Forum on Health System Funding. Physician funding models. November 26, 2010
43. Canadian Blood Services. Panel Discussion. National organ and tissue system redesign. November 6, 2010
44. Snyder Institute for Infection, Immunity and Inflammation Annual III Research Day. Clinical trials on severe sepsis. October 4, 2010
45. Alberta Innovates-Health Solutions, Making Connections Conference. Panel. Future of research in Alberta. Jasper, Alberta. May 31, 2010
46. Southern Alberta Chapter for the Canadian College of Health Services Executives. Keynote Speaker. Engagement of the medical profession in health care transformation. May 26, 2010
47. University of Calgary's Health Policy Symposium. AMA's position on activity-based funding. May 19, 2010
48. University of Alberta Department of Surgery. Health care in Alberta and the role of the medical profession. April 30, 2010
49. University of Alberta Medical Student Society. Health care in Alberta and Canada and the role of the medical profession. Edmonton, AB. April 14, 2010
50. University of Calgary Department of Surgery Annual Retreat. Success as a clinical investigator. Banff, AB. April 9, 2010
51. University of Calgary Department of Surgery Annual Retreat. Success as a clinical investigator. Banff, AB. April 9, 2010
52. GP Forum. Primary care in Alberta. Edmonton, AB. March 11, 2010
53. Alberta College of Family Physicians Annual General Meeting. Banff, AB. Primary care in Alberta. February 27, 2010
54. University of Calgary Science Café. Sepsis and emerging infectious diseases. January 26, 2010
55. Alberta Medical Student Conference Annual Retreat. Physician resiliency and wellbeing. January 16, 2010
56. Department of Critical Care Medicine Journal Club. December 17, 2009
57. Professional Association of Residents of Alberta. Health care in Alberta and the role of resident physicians. November 16, 2009
58. Capital Region and Rural Caucus. Role of primary care networks in Alberta health care system. October 29, 2009
59. Minister's Advisory Committee on Health. Health care in Alberta and the Medical Profession. October 19, 2009
60. Alberta Section of Pathologists AGM. Health Care in Alberta and the Medical Profession. October 17, 2009
61. Section of General Practice Forum. Health Care in Alberta and the Medical Profession. September 24, 2009
62. Advances and recovery from severe sepsis, Canadian Association of Critical Care Nurses, Calgary, May 27, 2010
63. Success as an Academic, Department of Surgery Annual retreat, Banff, Calgary, April 8-9, 2010
64. Pandemics: risks and reactions to an issue of public health, Calgary, January 26, 2010
65. End of Life Critical Care Decision-Making, University of Calgary Health Law Guest Lecture, Calgary, November 25, 2009
66. The Sepsis Talk, ICU Fall Update, Alberta Children's Hospital, Calgary, October 30, 2009,
67. Post ICU discharge care: What are the consequences of long term ICU or CCU stays to which family physicians need to be attentive., Continuing Medical Education Presentation, University of Calgary, Calgary, January, 2008
68. Acuity, Chronicity and Outcome in ICU. Looking at short and long term morbidity and mortality., Critical Care Rounds, McMaster University, Hamilton, December, 2007
69. Assessing patients in septic shock eligible for novel therapy, US West coast Rejuvenation Meeting, San Diego, November, 2007
70. Donation after cardiac death: One Intensivist's perspective.....No, 3rd Annual Canadian Liver Transplant forum, Toronto, November, 2007
71. The management of inhalational lung injury, Canadian Burns Conference, Calgary, September, 2007



72. What is Septic Shock ?, IVIG Minisymposium, Foothills Medical Centre, Calgary, May, 2007
73. The healing starts here...end of life care in the ICU, Euthanasia and End-of-Life Issues, Edmonton, Alberta , May, 2007
74. AIMG lecture on Ethics, Calgary, Post Graduate Medical Students 20 Learners, *March 2007*Maintaining Balance in medicine, Western Canadian Medical Students Retreat, Banff, February, 2006
75. Calgary health region Successful models in organ and tissue donation, 8<sup>th</sup> International Congress of the international Society for organ donation and procurement and the International Transplant coordination Society, Granado Brazil, December 3-5, 2005
76. Role of the Intensivist in organ and tissue donation, 8<sup>th</sup> International Congress of the international Society for organ donation and procurement and the International Transplant coordination Society, Granado Brazil, December 3-5, 2005
77. Rescue therapy for oxygenation difficulties, Respiratory Therapy Education Day, Calgary, AB, November 9, 2005.
78. Non-heart beating organ donation, Toronto Critical Care Medicine Symposium, Toronto ON, October 26, 2005.
79. AIMG lecture on Ethics, Calgary, Postgraduate Medical Students 20 Learners, June, 2006
80. Severe sepsis: it's shocking, Talk, Lethbridge, 40 Learners, June 2005
81. Heritage Young Researchers: Bioethics Lecture, Calgary, Undergraduate Students 40 Learners, August 2005
82. Critical Care, Organ and Tissue Donation, Quality end-of-life care in the ICU and elsewhere, Past Present and Future, Saskatchewan Transplant Program, Regina, SK, June 14, 2005.
83. Critical care issues in the management of severe burns, Calgary Burn Care Workshop, Calgary, AB, and June 17, 2005.
84. AIMG lecture on Ethics, Calgary AB. March 2005
85. End-of-life Decision Making, Excellence in Critical Care 2005: Canadian Association of Critical Care Nurses, Calgary, AB, April 22, 2005.
86. Management and prognosis in severe traumatic brain injury, Trauma Association of Canada with the Australasian Trauma Society, Whistler BC, April 8, 2005.
87. Donation after cardiocirculatory determination of death: welcome expectations, Donation after cardiocirculatory death: a national forum, Vancouver, BC, Feb 17, 2005.
88. Management of severe sepsis with rhAPC: illustrative cases. National approach to severe sepsis: case based learning. Calgary, AB, February 8, 2005.
89. An Economic Evaluation of Acute Renal Failure in the ICU, CRRT in Critical Care, Edmonton, February 4, 2005.
90. Ethics of wound care management, Canadian Association of Wound Care, Calgary, November 12, 2004
91. Organ and Tissue Donation in Canada. Federal Provincial Territorial Conference Deputy Ministers of Health, Ottawa, December 2004.
92. Are you brain dead? I'll be the judge of that, Regional Trauma Services, Calgary Health Region, Calgary, November, 2004
93. Withdrawal of active treatment, Toronto Critical Care Medicine Symposium, Toronto, Canada October 22, 2004
94. Non-heart beating donors, Toronto Critical Care Medicine Symposium, Toronto, Canada, Multidisciplinary, physicians, nurses, other health care providers 300 Learners, October 21, 2004
95. Organ and tissue donation as part of quality end of life care in the ICU, International Association of Transplant Coordinators, Vancouver BC, October 15, 2004
96. Academic Forum on the management of severe sepsis syndrome, University of British Columbia, Division of Critical Care Medicine, Vancouver BC, September 27, 2004
97. Senior Faculty Perspective on being a doctor. White Coat Welcome University of Calgary, Faculty of Medicine, Undergraduate Medical Education, Calgary,. August 26, 2004
98. Organ and Tissue Donation and Quality end-of-life care in the ICU, University of Saskatchewan, Faculty of Medicine, Critical Care, Saskatoon, May 21, 2004.
99. Non heart beating donor harvesting: still to be prohibited in Calgary? Department of Critical Care Medicine, Calgary AB, May 27, 2004
100. Advances in the treatment of sepsis, Lethbridge Regional Hospital Medical Staff, Lethbridge, AB. May 14, 2004.
101. Medical Ethics, Alberta International Medical Graduate Program. Calgary AB, June 2004
102. Quality of end of life care in the ICU: organ and tissue donation, University of Calgary, Office of Medical Bioethics, Medial Bioethics Interest Group, Calgary, March 11, 2004
103. Strategies for overcoming multidrug resistance-optimizing resource allocation, Canadian Infectious Diseases Society, Calgary, April 29, 2004
104. Organ and tissue donation in the Calgary Health Region: part of a critical care quality assurance program in end of life care. Swedish Medical Society, Stockholm, Sweden, March 16, 2004
105. Legislation in organ and tissue donation, Government of Sweden, Department of Health, Stockholm, Sweden, March 15, 2004
106. Professional responsibility and SARS. Second Annual Atlantic Critical Care Symposium, Halifax, Nova Scotia, September 5, 2003
107. Economic evaluations in critical care. Second Annual Atlantic Critical Care Symposium, Halifax, Nova Scotia, September 3, 2003
108. The challenge of standardizing brain death in Canada: introduction. Severe Brain Injury to Neurological Determination of Death Forum, Vancouver BC, April 2003.



109. The critical care position paper on organ donation, Canadian Association of Transplantation, Mont-Tremblant QC March, 2002
110. Canadian Council for Donation and Transplantation: A collaborative approach. Canadian Society for Transplantation. Mont-Tremblant QC, March 2002.
111. Expedited review of human based research, Research Ethics in the 21<sup>st</sup> century, Provincial Research Ethics Day. Calgary AB. October, 2001
112. A description of organ failure scoring in a regional critical care setting, American Thoracic Society Meeting, May, 2001
113. Controversies in the ethical diagnoses of brain death, Western Canada Critical Care Conference, Banff, Alberta, March, 2001
114. The ethics of non-heart beating organ donation, Western Canada Critical Care Conference, Banff, Alberta, March, 2001
115. Expedited review of human based research, Research Ethics in the 21<sup>st</sup> century, Edmonton AB, November, 2000.
116. The ethics of xenotransplantation, Citizen's Jury on xenotransplantation, Health Canada, November, 2000
117. Innovative Therapy in Septic Shock, CHR Department of Medicine Grand Rounds. Calgary AB November, 2000
118. The effects of examiner background and station organization on OSCE performance. Research in Medical Education (RIME), American Association of Medical Colleges, Chicago III, November, 2000
119. The Pine Lake Disaster, CHR Department of Surgery Trauma Grand Rounds, Calgary AB. September 2000
120. Clinical Trials and tribulations workshop. Calgary AB, September 8 & 9, 2000
121. Clinical examination preparation weekend for physicians new to Canada, Calgary AB. September, 2000
122. Through different lenses: resolving ethical conflicts, The ethics of everyday health care, CRHA Professional Nursing Practice Conference, University of Calgary, May, 2000
123. Clinical trials in Critical care in Western Canada, Western Canada Critical Care Conference, Banff, Alberta, March, 2000
124. The fabric of goodness conference: Weaving ethical practices into decision making at the end of life, Children and futility, Grant McEwan College, Edmonton, Alberta, March 2000.

Teaching:

1. DCCM Academic Curriculum-Ventilators I-Basics of Mechanical Ventilation, July 14, 2016. Foothills Medical Centre, Calgary, AB.
2. Patient Safety II - looking at patient care scenarios and analyzing them for how and when errors were made. Introduction to Clinical Practice (ICP) Small Group Teaching - Class of 2018, June 28, 2016, University of Calgary, AB.
3. Pain Management. Introduction to Clinical Practice (ICP) Small Group Teaching - Class of 2018. June 29, 2016, University of Calgary, AB.
4. Skills Fair - stations to include hand wash certification, gown/glove/mask, needles/syringes. Introduction to Clinical Practice (ICP) Small Group Teaching - Class of 2018, June 30, 2016, University of Calgary, AB.
5. MDSC 629.02-Cardiovascular patho physiology -Shock, March 15, 2016, University of Calgary, AB
6. MDSC 623.02- Physiology of Respiration and Critical illness- Biostatistics, March 10, 2016, Foothills Medical Centre, Calgary, AB.
7. Advanced Trauma Life Support (ATLS) Student Course, March 3-5, 2016, Foothills Medical Centre, Calgary, AB.
8. Course 3 Small Groups #15: Cardiac Arrest/Pharmacology, February 9, 2016.
9. Course 3 Small Groups #4: Dyspnea 1 (Respiratory Physiology), January 19, 2016.
10. Course 3 Small Groups #5: Dyspnea 2 (ABG), January 20, 2016.
11. Advanced Trauma Life Support (ATLS) Student Course, January 14-16, 2016, Foothills Medical Centre, Calgary, AB.
12. CanMEDS (Advocate) - Consent and Capacity Academic teaching, December 3, 2015, Foothills Medical Centre, Calgary, AB.
13. Advanced Trauma Life Support (ATLS) Instructor Course, Student Course, October 3, 2015, Foothills Medical Centre, Calgary, AB.
14. Academic Teaching Session Apr 30, 2015 - CanMEDS (Communicator), Futility and the Approach to the Difficult Patient, Foothills Medical Centre, Calgary, AB.
15. Course 3 Small Groups #4: Dyspnea 1 (Respiratory Physiology), January 20, 2015.
16. Course 3 Small Groups #5: Dyspnea 2 (ABG), January 21, 2015.
17. Course 3 Small Groups #17: Cough and Fever 2 (TB), February 18, 2015.
18. Course 3 Small Groups #18: Excessive Daytime Sleepiness (EDS), February 19, 2015.
19. Course 3 Small Groups #20: Lung Nodule, February 23, 2015.
20. Advanced Trauma Life Support (ATLS) Instructor Course, Student Course, Head Trauma (Lecture), Head & Neck Trauma, Practical Skills Station, June 24, 2014, Foothills Medical Centre, Calgary, AB.
21. Advanced Trauma Life Support (ATLS) Instructor Course, Student Course, Shock (Lecture), Spinal Cord Injury Management & Skills Station, Trauma in Women, May 29-30, 2014, Foothills Medical Centre, Calgary, AB.
22. Difficult Airway Management Workshop, Department of Critical Care Medicine, May 29, 2014, Advanced Trauma and Surgical Skills lab basement TRW building Foothills Medical Centre, Calgary, AB



23. Academic Curriculum. Cardio-Respiratory course (Course 3) Lecture- Ethics: Patient Autonomy in the ICU, February 11, 2014
24. Academic Curriculum. Core Content-Spinal Cord Injuries. April 11, 2013.
25. Academic Curriculum. CanMEDS(Communication): Futility and Approach to the Difficult Patient. February 21, 2012
26. Resident Rotating Rounds. Acute Renal Failure. February 4, 2013.
27. Academic Curriculum. CanMEDS (Communication): Futility & Approach to the Difficult Patient. February 21, 2013.
28. HSOC 311 Course (Winter Semester). Undergraduates. Course Coordinator. Total of 40 hours, January-April, 2013
29. Resident Rotating Rounds. ICU Orientation Foothills. December 18, 2012.
30. Faculty of Law 3360. Lecture, Physicians' Perspective on End of Life Cases. 30 undergraduate students. November 30, 2012.
31. Resident Rotating Rounds. Your ICU Rotation: Learning How to Think in the ICU. November 20, 2012.
32. Academic Curriculum. Precept Core Curriculum Session. Asthma and COPD. November 1, 2012.
33. ICU Rotating Resident Core Lecture Series. Decreased Level of Consciousness and Seizures. October 29, 2012
34. ICU Rotating Resident Core Lecture Series. Decreased Level of Consciousness and Seizures. October 2, 2012.
35. Academic Curriculum. CanMEDS (Communication): Futility and Approach to the difficult patient. September 13, 2012.
36. Academic Curriculum. CanMeds(Communicator): End of Life Issues. August 13, 2012.
37. MDSC 623.02, Clinical Trials, March 29, 2012.
38. Small Group Event (Department of Critical Care Resident Rounds). ICU Rotating Resident Advanced Lecture Series. "Head Injury." March 26, 2012.
39. Shock Lecture, March 20, 2012.
40. Small Group, Single Event (Department of Critical Care Resident Rounds). Resident Rounds: Your ICU Rotation. Learning how to think in the ICU. March 13, 2012.
41. Course 3, Ethics: Patient Autonomy in the ICU (Small Group Lecture). February 9, 2012.
42. Department of Critical Care Resident Rounds (Small Group, Single Event), "Acute Renal Failure." February 6, 2012
43. HSOC 311, Acute and ICU Care, February 1, 2012.
44. ATLS, Instructor Course, Student Course, Foothills Medical Centre, Calgary AB, January 12-14, 2012.
45. ICU Rotating Resident Core Lecture Series. "Decreased Level of Consciousness and Seizures." January 10, 2012.
46. Academic Curriculum Facilitator. CanMEDS (Communicator) End of Life Care. Small Group. December 8, 2011.
47. Faculty of Law. Lecture. November 30, 2011.
48. Ethics at CUHAS (Masters in Public Health Program) Bugando and National Ethics in Tanzania. November 14-18, 2011.
49. ATLS, Instructor Course, Student Course, Foothills Medical Centre, Calgary AB, October 27-29, 2011.
50. Small Group, Single event (Department of Critical Care Resident Rounds). October 31, 2011. Advanced Drug Intoxication and Withdrawal.
51. Small Group, Single event (Department of Critical Care Resident Rounds). Decreased Level of Consciousness and Seizure. July 11, 2011.
52. Large Group, Single event (Residents), Difficult Airway, May 19, 2011
53. MDCN 370: Course 3: Cardiology/Respirology, Ethics – Patient autonomy in the ICU, February 10, 2011.
54. HSOC 311, Acute Care, January 26, 2011
55. MDCN 380: Course 4: Renal/Endocrine and Obesity – Ethical issues in transplantation, June 15, 2010.
56. Course 755.92, Clinical Trials, March 2010
57. ICU Fall update, The Sepsis Talk, October 2009
58. Small Groups, Ethical Issues in Transplantation, June 2009
59. Small Groups, Shock, February 2009
60. Small Groups, Ethical Issues in transplantation, June 2009
61. Department of Critical Care Medicine Academic Half Day, CanMeds Seminar, CCM database and patient scoring, April 2009
62. UofC Health Law course. November 25, 2009. 6 hours preparation; 3 hours lecture
63. UofC Health Law course. November 17, 2009. 6 hours preparation; 3 hours lecture
64. MDCM 380. Course 4: Lecture on ethical issues in transplantation. 3 hours preparation; 1 hour lecture. June 15, 2010
65. MDSC 629.02. Shock. Cardiovascular physiology course. 3 hours lecture; 3 hours preparation. March 30, 2010
66. Course 755.92. Clinical Trials. 2 hour seminar; 4 hours preparation; 2 hours marking exams. March 25, 2010
67. MDCN 370 Cardio Respiratory Course, Small Group session: Shock, Undergraduate Medical Students 20 Learners, February 2009
68. Small Group – Medical Skills Program, Research ethics, November 2008
69. Administration Series 8, Medical ethics in emergency and acute care medicine, Emergency Medicine Half day Staff Preceptor. June 2008
70. MDCN 380, Ethical Issues in Transplantation, 20 learners, June 2008
71. MDSC 629.02, Cardiovascular Pathophysiology, Graduate Students, 20 Learners, April 2008
72. Course 755.92 & IMM-8 Module, The GI tract in critical illness - blood flow, nutrition and epithelial preservation, Graduate Students & Fellows, 15 Learners, April, 2008
73. Course 755.92 & IMM-8 Module, Clinical Trials, Graduate Students & Fellows, 15 Learners, March 2008





74. MDCN 370, Cardio-respiratory course, Small group session: Shock, Undergraduate Medical Students 20 Learners, February, 2008
75. MDCN 370, Cardio-respiratory course, Small group session: Ethics patient autonomy in the ICU, Undergraduate Medical Students 20 Learners, February 2008
76. MDCN 370, Cardio-respiratory course, Small group session: Cardiac arrest, Undergraduate Medical Students 20 Learners, February 2008
77. ATLS Instructor Course, Health Sciences Centre, Foothills Medical centre, Calgary, November, 2008
78. ATLS Instructor Course, Health Sciences Centre, Foothills Medical centre, Calgary, October, 2008
79. ATLS Instructor Course, Health Sciences Centre, Foothills Medical centre, Calgary, January, 2008
80. MDCN 370, Course III Cardiorespiratory, Lecture- Ethics patient autonomy in ICU, Undergraduate Medical Students 140 Learners, Feb 2007
81. MDCN 370, Cardio-respiratory course, Small group session: acute dyspnea, undergraduate 20 Learners, February, 2007
82. MDCN 370, Cardio-respiratory course, Small group session: cardiac arrest, undergraduate 20 Learners, February, 2007
83. MDCN 370, Cardio-respiratory course:: lecture on autonomy, undergraduate 100 Learners, February, 2007
84. Department of Critical care Medicine Academic Half day, Calgary, ICU Delerium/Psychiatric Emergencies, January 2007
85. MDCN 314, Lecture, Calgary, Undergraduate Medical Students 120 Learners, April 2005
86. MDCN 310, Talk, Calgary, Undergraduate Medical Students 120 Learners, March 2005
87. Resident Ethics Days, talk, Calgary, Postgraduate physicians and undergraduate nurses 140 Learners, October 2005. My participation included course organization, small group preceptor and lecturer
88. Research Integrity Day, University of Calgary, Office of Medical Bioethics and Office of the Associate Dean Graduate Medical Sciences, Calgary, Graduate students 120 Learners, January 28 and April 29.2005. My participation included course organization and small group instruction.
89. Resident Ethics Day, University of Calgary, Faculties of Medicine and Nursing, PGME Office, Calgary Postgraduate physicians and undergraduate nurses 240 Learners, October 2004 - November 2004 2 day long courses. My participation included course organization, small group preceptor and lecturer
90. Professionalism Workshop, University of Calgary, Faculty of Medicine, Undergraduate Medical Education, Calgary First and second year medical students 20 Learners, Small group preceptor. August 20, 2004.
91. MDCN 440 Applied Evidence Based Medicine, University of Calgary, Faculty of Medicine, Undergraduate Medical Education, Calgary, Undergraduate medical students 3 Learners, September 2004 - November 2004 Students were: James Huffman, Marcus Peck, and Grant McIntyre.
92. MDSC 755.92, University of Calgary, Faculty of Medicine, Department of Critical Care Medicine, Calgary Graduate students 12 Learners, January 2004 - April 2004
93. Research Integrity Day, University of Calgary, Office of Medical Bioethics and Office of the Associate Dean Graduate Medical Sciences, Calgary, graduate students 120 Learners, January 2004 - April 2004, My participation included course organization and small group instruction
94. MDCN 514.18 ICU-Trauma Clerkship Elective, University of Calgary, Faculty of Medicine, Undergraduate Medical Education, Calgary, undergraduate medical students 10 Learners, January 2004 - December 2004
95. MDCN 320 Medical Skills (Physical exam skills section), University of Calgary, Faculty of Medicine, Undergraduate Medical Education, Calgary, undergraduate medical students 5 Learners, September 2004 - May 2004
96. MDCN 413 Integrative II, University of Calgary, Faculty of Medicine, Undergraduate Medical Education, Calgary undergraduate medical students 10 Learners
97. Surgeon's half day, Department of Surgery, University of Calgary, Calgary, surgical residents 20 Learners, December 2004
98. Health Research Methods 2003 Course, Faculty of Medicine, University of Calgary, June, 2003
99. MDCN 504.09, Internal Medicine Selective in intensive care, 2001
100. MDCN 504.01, Internal Medicine Clerkship, OSCE Examiner, 2001
101. MDCN 408, Competency and decision making capacity assessment, lecture and sole instructor, 50 students, November, 2001
102. MDCN 340, Research Methods and Evidence Based Medicine, Section Chair and sole instructor, 78 students, June, 2001
103. MDCN 340, Research Methods and Evidence Based Medicine, Section Chair and sole instructor, 78 students, June, 2001
104. MDCN 308, Principles of biomedical ethics, 101 students, March, 2001
105. MDCN 307, Medical Ethics (Withdrawal of care), 8 students, March, 2001
106. MDCN 420, Section Chair, Small group Preceptor, 78 students, June 2001
107. MDCN 320, Section Chair, Small group Preceptor, 101 students, June, 2001
108. Law and ethics and the daily demands of ICU, Law and Society 512, Social Administration of the Law, 30 students, December, 2001
109. ATLS, CME, Calgary, February/June/ November, 2000
110. ATLS, CME, Yellowknife, February, 2000
111. Internal Medicine Emergency Core Topics, 10 Students, July, 2000



112. Occupational exposure to infectious pathogens, Department of Medicine Grand Rounds, December, 2000
113. MDSC 755.92, The GI tract in critical illness-blood flow, nutrition and epithelial preservation, February, 2000
114. MDSC 755.92, The fundamental basics of critical illness, 4 students, January, 2000
115. MDSC 629.02, Cardiovascular Dynamics, Cardiovascular pathophysiology, 10 students, 2000
116. MDCN 504.09, Internal Medicine Selective in intensive care, 2000
117. MDCN 504.01, Internal Medicine Clerkship, OSCE Examiner, 2000
118. MDCN 408, Competency and decision making capacity assessment, lecture and sole instructor, 50 students, November, 2000
119. MDCN 340, Research Methods and Evidence Based Medicine, Section Chair and sole instructor, 78 students, November, 2000
120. MDCN 308, Principles of biomedical ethics, 101 students, March, 2000
121. MDCN 307, Respiratory Emergencies lecture, 78 students, March, 2000
122. MDCN 420, Section Chair, Small group Preceptor, 78 students, November, 2000
123. MDCN 320, Section Chair, Small group Preceptor, 101 students, November, 2000
124. Law and Society 512, Social Administration of the Law, 30 students, November, 2000

### **Knowledge Technology and Translation:**

#### 1. Consultation service

Board member [healthydebate.ca](http://healthydebate.ca); Healthy debate is a forum for discussion with and a source of information for health providers and health policy makers. The site includes discussion on emerging issues, but also includes the opportunities for opinion pieces to stimulate discussion, and 'Faces' of health care to bring the stories alive of patients and providers alike.

#### 2. Citizen engagement

The Calgary zone Department of Critical Care Medicine includes a Patient and Family centred care committee. The PFCC provides input on policies and procedures related to the provision of critical care in all adult multi system ICU's. The PFCC is made up of former patients, and family members of former patients. Patient/family representation is included in most of the departmental committees related to the provision of care and assessment of quality of care (standards) in the Calgary zone.

#### 3. Community engagement

In collaboration with other investigators, the Department of Critical Care Medicine, and the Alberta Critical Care Strategic Clinical Network has held community engagement activities (Cafe Scientifique) to obtain broader feedback on critical care activities, and to seek feedback on proposed research and quality improvement activities. The Department of Critical Care Medicine has sponsored public education forums during World Sepsis Day. The Department, as part of the Snyder Institute for Chronic Diseases, plays a role in the 'Mini-Med School' which are a series of evening lectures on topics including related to sepsis and infection.

#### 4. Research uptake strategies

The department of critical care has recently hired an implementation scientist to assist in KT activities (implementation and de-implementation) of clinical treatments and interventions. The department works closely with the Alberta Critical Care Strategic Clinical Network to evaluate and implement province wide guidelines/policies/protocols with respect to critical care management of adult patients.