



CURRICULUM VITAE

DANNY J. ZUEGE M.D., MSc. F.R.C.P.(C)

July 30, 2017

I. BIOGRAPHICAL DATA

Name: Danny Jeffery Zuege

Address: Intensive Care Unit
Peter Lougheed Hospital
3500 - 26th Avenue NE
Calgary, Alberta, T1Y 6J4

E-mail: dan.zuege@albertahealthservices.ca

Telephone: (403) 943-4309

FAX: (403) 291-1491

Present Rank: Clinical Professor of Medicine

Departments/Faculty: Department of Critical Care Medicine (primary)
Cumming School of Medicine
University of Calgary

Department of Medicine (secondary)
Division of Respiriology
Cumming School of Medicine
University of Calgary

Present Positions: Medical Director
eCritical Provincial Critical Care Clinical Information System Program
Alberta Health Services

Intensivist
Department of Critical Care Medicine
Alberta Health Services/University of Calgary

Respirologist
Department of Medicine
Alberta Health Services/University of Calgary

II. ACADEMIC RECORD

i. Undergraduate

Bachelor of Medical Science
(With Distinction)
University of Alberta

1988



ii. Special Professional

Doctor of Medicine (With Distinction) University of Alberta	1990
Postgraduate Rotating Internship Charles Camshell Provincial General Hospital Edmonton, Alberta	1990 - 1991
Internal Medicine Residency Faculty of Medicine University of Calgary	1992 - 1995
Pulmonary and Critical Care Medicine Fellowship Faculty of Medicine University of Calgary	1995 - 1997

iii. Graduate and Post-doctoral

Post-doctoral Research Fellowship Respiratory Research Group University of Calgary	1991 - 1992
Master of Science (Respiratory Physiology) University of Calgary	1994

iv. Licensure, Certification and Boards

Licentiate Medical Council of Canada	1990
Diplomat National Board of Medical Examiners	1991
General Licensure, College of Physicians and Surgeons of Alberta	1993 - Present
Diplomat American Board of Internal Medicine	1995
Fellow Royal College of Physicians and Surgeons of Canada - Internal Medicine	1995
Certification in Respiratory Medicine Royal College of Physicians and Surgeons of Canada	1997
Certification in Pulmonary Diseases American Board of Internal Medicine	1998
Advanced Trauma Life Support (ATLS) Instructor	1998
Certification in Critical Care Medicine American Board of Internal Medicine	1999
Certification in Critical Care Medicine	2002



Royal College of Physicians and Surgeons
of Canada

Certificate - Leadership Strategies for Information Technology in Health Care
Harvard School of Public Health
2013

III. AWARDS AND DISTINCTIONS

Dean Sandham Critical Care Medicine Clinical Teaching Award
Department of Critical Care Medicine
University of Calgary
2017

Associate Dean's Letter for Teaching Excellence - Undergraduate Curriculum
Cumming School of Medicine, University of Calgary
2016

Bronze Star Letter for Distinguished Service
Respiratory Medicine Course
Cumming School of Medicine, University of Calgary
2016

Presidents Excellence Award
Outstanding Achievement in Innovation
eCritical Alberta Program
Alberta Health Services
(Finalist)
2016

LEADing Practice Initiative Award
(Spectrum Calgary application)
As part of the Spectrum Development Group
Canada Health Infoway and
Accreditation Canada
2016

Class of 2017 Honour Roll for Teaching Excellence
Cumming School of Medicine, University of Calgary
2016

Associate Dean's Letter for Teaching Excellence - Undergraduate Curriculum
Cumming School of Medicine, University of Calgary
2015

Bronze Star Letter for Excellence in Teaching
Respiratory Medicine Course
Cumming School of Medicine, University of Calgary
2015

Associate Dean's Letter for Teaching Excellence - Undergraduate Curriculum
Cumming School of Medicine, University of Calgary
2014

Bronze Star Letter for Excellence in Teaching
Respiratory Medicine Course
Cumming School of Medicine, University of Calgary
2014

Innovation in the Adoption of Health Informatics Award (VAP Surveillance System)
2007



Canadian Health Informatics Association (COACH)

Physician of Merit Award Calgary General Hospital Medical Staff Association	2006
Dean Sandham Critical Care Medicine Clinical Teaching Award Department of Critical Care Medicine University of Calgary	2003
Award for Outstanding Resident Teaching ("Silver Finger" Award) Department of Medicine University of Calgary	2002
Fellow American College of Chest Physicians	1999
Associate Dean's Letter for Teaching Excellence - Undergraduate Curriculum Faculty of Medicine, University of Calgary	1997
Gold Star Letter for Excellence in Teaching Respiratory Medicine Course Faculty of Medicine, University of Calgary	1997
Fellow Royal College of Physicians and Surgeons of Canada	1995
Canadian Thoracic Society Best Scientific Abstract Award (Royal College Presentation)	1992
Post-doctoral Research Fellowship Heart and Stroke Foundation of Canada	1991
Post-doctoral Research Fellowship Alberta Heritage Foundation for Medical Research (Declined)	1991
Hewlett Packard Top Medical Graduate Award	1990
Sandoz Prize in Medicine	1990
C.V. Mosby Book Award	1990
Louise McKinney Post-Secondary Scholarship's	1986, 1987, 1988, 1989
University of Alberta Board of Governors Prize in Medicine	1988
Alberta Heritage Foundation for Medical Research Summer Studentship	1988
A.W. Downs Prize in Physiology	1987
Alberta Heritage Foundation for Medical Research Summer Studentship	1986



Dr. A.J. Pauly Bursary in Medicine	1986
Paul Edward Macleod Memorial Prize in Chemistry	1986
Viscount Bennett Scholarship for Academic Achievement	1985

IV. ACADEMIC APPOINTMENTS

Clinical Professor Departments of Medicine and Critical Care Medicine Cumming School of Medicine University of Calgary	2013 - Present
Medical Director eCritical Provincial Critical Care Clinical Information System Program Alberta Health Services	2011 - Present
Clinical Associate Professor Departments of Medicine and Critical Care Medicine Faculty of Medicine University of Calgary	2006 - 2013
Medical Director – Southern Alberta Organ and Tissue Donation Program Alberta Health Services	2007 - 2010
Medical Director – Southern Alberta HOPE (Human Organ Procurement and Exchange) Program Calgary Health Region	2003 - 2007
Medical Director – Critical Care Unit Peter Lougheed Hospital Calgary Health Region	2001 - 2012
Clinical Assistant Professor Departments of Medicine and Critical Care Medicine Faculty of Medicine University of Calgary	1997 - 2006
Pulmonary and Critical Care Medicine Fellowship Faculty of Medicine University of Calgary	1995 - 1997
Internal Medicine Residency Faculty of Medicine University of Calgary	1992 - 1995
Post-doctoral Research Fellowship Respiratory Research Group University of Calgary	1991 - 1992
Postgraduate Rotating Internship	1990 - 1991



Charles Camsell Provincial General Hospital
Edmonton, Alberta

V. EDUCATIONAL ACTIVITIES

i. Undergraduate

Cardiorespiratory System Course (MDCN 307) Small Group Teaching Emergencies, Shock, Respiratory Failure, Pleural Diseases, Obstructive Diseases, Pulmonary Vascular Diseases, Infections Cumming School of Medicine, University of Calgary (~8 hours/year)	2001 - Present
ICU Rotation Preceptor Clinical Clerk Critical Care Rotations Cumming School of Medicine, University of Calgary (~16 weeks/year)	2000 - Present
Pulmonary Rotation Preceptor Clinical Clerk Pulmonary Medicine Rotations Cumming School of Medicine, University of Calgary (~3 weeks/year)	2000 - Present
Cardiorespiratory System Course (MDCN 307) Clinical Skills Preceptor Cumming School of Medicine, University of Calgary (~10 hours/year)	1996 - Present
Advanced Respiratory Therapy Course (RESP 365) Lecturer Acute Respiratory Distress Syndrome Respiratory Therapy Program SAIT (~4 hours/year)	2002 - 2008
Medicine 440 Elective (Pulmonary/Critical Care Medicine) Preceptor Faculty of Medicine, University of Calgary (~40 hours)	2002 - 2003
Medicine 440 Elective (Pulmonary/Critical Care Medicine) Preceptor Faculty of Medicine, University of Calgary (~40 hours)	2000 - 2001
Surface Anatomy teaching First year medical students Faculty of Medicine, University of Calgary (~3 hours)	2000
Faculty Advisor – first year medical student	1999 – 2002



Faculty of Medicine, University of Calgary

Respiratory System Course (MDCN 307) 1999 – 2000
 Lecturer
 Hemoptysis; Pulmonary Thromboembolism
 Faculty of Medicine, University of Calgary
 (~6 hours/year)

LMCC Pulmonary Review Course 1999
 Lecturer
 Faculty of Medicine, University of Calgary
 (~5 hours)

Respiratory System Course (MDCN 307) 1998 - 2000
 Cube Manager
 Pulmonary Circulation
 Faculty of Medicine, University of Calgary
 (~20 hours/year)

Respiratory System Course (MDCN 307) 1997 - 2000
 Lecturer
 Hypoxia and Gas Transport
 Faculty of Medicine, University of Calgary
 (~2 hours/year)

Medical Student Physical Examination Course 1997 - 1999
 Instructor
 Faculty of Medicine, University of Calgary
 (~20 hours/year)

Medical Student Clinical Skills OSCE 1997
 Examiner
 Faculty of Medicine, University of Calgary
 (~3 hours)

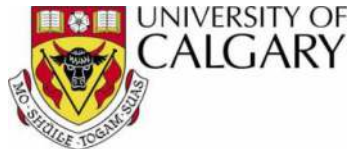
Respiratory System Course (MDCN 307) 1996 - 2000
 Small Group Teaching
 Blood Gases
 Faculty of Medicine, University of Calgary
 (~10 hours/year)

ii. Graduate

Co-sponsor – Capstone Project 2016 – Present
 Ms. Karla Avery
 Masters of Arts (Health Leadership) Program
 Royal Roads University

Lecturer – Advanced Critical Care Physiology Course 2016
 MDSC 623.03
 (Respiratory Mechanics – Static and Dynamic)
 Cumming School of Medicine, University of Calgary
 (~12 hours)

Member – MSc Supervisory Committee 2015 – 2017



Dr. Jason Lord

Thesis: Central Line Insertion Education
(Successful thesis defense examination)
Department of Community Health Sciences
Cumming School of Medicine
University of Calgary

Member – MSc Supervisory Committee 2015 – Present

Ms. Jaime Boyd
Thesis: ICU discharge risk stratification tools
Department of Community Health Sciences
Cumming School of Medicine
University of Calgary

Research Supervisor 2014 – Present

Dr. Daniel Vis
Internal Medicine Resident
Research Topic: Incidence and etiology of non-infectious
ventilator-associated events in invasively ventilated adult
critical care patients in Calgary
Internal Medicine Program, University of Calgary

Member – MSc/Phd Supervisory Committee 2014 – Present

Dr. Giovanni Taglibue
Thesis: Parasternal intercostals and costal diaphragm
muscle function during CO₂ stimulation
Department of Critical Care Medicine
Cumming School of Medicine
University of Calgary

Member – MSc Supervisory Committee 2011 – 2014

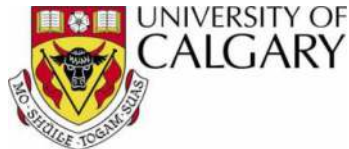
Dr. Vikas Chaubey
Thesis: Is the mortality from community-onset
bacteremia associated with sepsis and septic shock
changing over time? A Population-based analysis of
secular trends in community-onset bacteremia in patients
admitted to the intensive care unit
Departments of Critical Care Medicine and
Community Health Sciences
Faculty of Medicine
University of Calgary

Member – Research Project Committee 2010 – 2014

Ms. Tracy Chin
Project Topic: Assessment of Antibiotic
use in patients who develop Ventilator Associated
Pneumonia in Alberta Health Services-Calgary Zone
Pharmacy Department
Alberta Health Services – Calgary Zone

Member - MSc Supervisory Committee 2010 – 2013

Ms. Kathryn Linton
Thesis: The impact of ventilator-associated pneumonia
among pre-hospital intubated patients
(Successful thesis defense examination)
Department of Community Health Sciences



UNIVERSITY OF
CALGARY

Faculty of Medicine - University of Calgary

External Member - MSc Supervisory Committee Mr. Reza Shahpori Thesis: ICU Telehealth and remote monitoring (Tele-ICU); is there a need? (Successful thesis defense examination) School of Health Information Science University of Victoria Department of Community Health Sciences Faculty of Medicine - University of Calgary	2007 – 2010
Member – Research Project Committee Ms. Candace Cameron Quetiapine for the management of delirium in the critically ill Pharmacy Department Calgary Health Region	2003 - 2005
Lecturer – Nursing 572 Advanced Practicum – Critical Care (ARDS) Faculty of Nursing, University of Calgary (~3 hours/year)	2003 - 2006
Lecturer - Advanced Respiratory Physiology Course MDSC 623.02 (Mechanical Ventilation – Measurements and Monitoring) Faculty of Medicine, University of Calgary (~4 hours/year)	2001 - 2013
Lecturer - Advanced Respiratory Physiology Course MDSC 623.01 (Lung Fluid Balance and Pulmonary Edema) Faculty of Medicine, University of Calgary (~5 hours/year)	1996 - 2013
 iii. <u>Postgraduate</u>	
Lecturer – Pulmonary fellows academic half-day (Respiratory Mechanics III) Respiratory Program, University of Calgary (~4 hours/year)	2017 – Present
Faculty Mentor – Critical Care Medicine Resident Critical Care Program, University of Calgary	2017 – Present
Lecturer – Critical Care fellows academic half-day (Interstitial Lung Diseases in Critical Care) Critical Care Program, University of Calgary (~4 hours)	2016 - Present
Preceptor – Grand Rounds Resident Presentations Critical Care Program, University of Calgary (~3 hours/year)	2015 – Present



Faculty Mentor – Critical Care Medicine Resident Critical Care Program, University of Calgary	2014 - 2016
Lecturer – Critical Care fellows academic half-day (Neurologic Death) Critical Care Program, University of Calgary (~4 hours)	2014
Lecturer – Critical Care Fellows academic half-day (CLABSI) Critical Care Program, University of Calgary (~4 hours)	2014
Instructor – Difficult Airway Management Course Department of Critical Care Medicine Alberta Health Services (~8 hours/year)	2013 – Present
Lecturer – Pulmonary fellows academic half-day (Principles and Physiology of Mechanical Ventilation) Respiratory Program, University of Calgary (~4 hours/year)	2012 – Present
Prospective Resident Evaluation CARMS Application Process Critical Care Program, University of Calgary (~4 hours/year)	2000-2009, 2012
Lecturer – Critical Care fellows academic half-day (Infection Control in ICU) Critical Care Program, University of Calgary (~4 hours)	2012, 2013, 2015, 2016
Lecturer – Critical Care Fellows academic half-day (VAP and CLBSI) Critical Care Program, University of Calgary (~4 hours)	2011, 2013, 2015
Lecturer – Critical Care fellows academic half-day (Neurologic Death/Organ Donor Management) Critical Care Program, University of Calgary (~4 hours)	2011
Preceptor – Critical Care Fellows simulation session (Crisis simulation) Critical Care Program, University of Calgary (~2 hours)	2010
Lecturer – Critical Care fellows academic half-day (Principles of ICU Design) Critical Care Program, University of Calgary (~4 hours)	2008
Research Supervisor Dr. Gurmeet Singh	2007 - 2010



<p>Critical Care Fellow Research Topic: Internal Jugular Vein Ultrasound Measures and Fluid Responsiveness in Post-Operative Cardiac Surgical Patients Critical Care Program, University of Calgary (~120 hours)</p>	
<p>Lecturer – Critical Care Rotating Residents Rounds (Various Topics) Cumming School of Medicine, University of Calgary (~8 hours/year)</p>	<p>2007 - Present</p>
<p>Preceptor – Lung Physiology Sessions Pulmonary Fellows PFT Lab Rotations Respiratory Program, University of Calgary (~4 hours/year)</p>	<p>2006 - Present</p>
<p>Lecturer – Critical Care fellows academic half-day (Advanced Mechanical Ventilation/Cardiopulmonary Interaction) Critical Care Program, University of Calgary (~3 hours/year)</p>	<p>2006 – 2013</p>
<p>Lecturer – Critical Care Fellows academic half-day (Complications of Transplantation) Critical Care Program, University of Calgary (~3 hours/year)</p>	<p>2006 – 2013, 2016</p>
<p>Lecturer – Critical Care Fellows academic half-day (Lung Transplantation) Critical Care Program, University of Calgary (~4 hours/year)</p>	<p>2003 - 2011</p>
<p>Lecturer – CanMeds 2000 Course (Academic Career Paths) Department of Medicine, University of Calgary (~3 hours)</p>	<p>2003</p>
<p>Basic Modular Workshop Examination skills workshop Royal College of Physicians and Surgeons Canada</p>	<p>2002</p>
<p>Member – Examination Board – Respiratory Medicine Royal College of Physicians and Surgeons Canada</p>	<p>2001 - 2006</p>
<p>Lecturer – Critical Care Rotating Residents Rounds (Ventilation and Ventilators) Faculty of Medicine, University of Calgary (~10 hours/year)</p>	<p>2001 - 2007</p>
<p>Examiner - Pulmonary Fellows Practice Exams Pulmonary Program, University of Calgary (~4 hours/year)</p>	<p>2000 - Present</p>
<p>Lecturer – Pulmonary Fellows academic half-day (Lung Transplantation)</p>	<p>2000 – 2011</p>



Pulmonary Program, University of Calgary
 (~4 hours/year)

Preceptor – Internal Medicine MTU Teaching Sessions 2000 – Present
 (Respiratory Medicine and Chest Radiology)
 Peter Lougheed Hospital
 Internal Medicine Program
 Department of Medicine, University of Calgary
 (~4 hours/year)

Ward Preceptor - Respiratory Medicine Rotation 1997 - Present
 Internal Medicine Program
 Department of Medicine, University of Calgary
 (~3 weeks/year)

Pulmonary Outpatient Clinic Preceptor 1997 - Present
 Respiratory Medicine Rotation
 Internal Medicine Program
 Department of Medicine, University of Calgary
 (~20 hours/year)

ICU Preceptor - Critical Care Rotations 1997 - Present
 Rotating residents and critical care residents
 Critical Care Program, University of Calgary
 (~16 weeks/year)

Examiner – Critical Care Medicine Fellows OSCE 2000 - 2002
 and oral exams
 Critical Care Program, University of Calgary
 (~3 hours/year)

Examiner - Pulmonary Fellows OSCE and Oral Exams 2000 - Present
 Respiratory Program, University of Calgary
 (~3 hours/year)

Examiner - R4 Internal Medicine Practice Exams 1999 – 2003
 Internal Medicine Program
 Department of Medicine, University of Calgary
 (~5 hours/year)

Instructor – Advanced Trauma Life Support Course 1998 – 2003

Lecturer – ICU Residents Introductory Course 1998 – 2003
 (Respiratory Failure)
 Critical Care Program, University of Calgary
 (~10 hours/year)

Examiner – R3 Internal Medicine Oral Exams 1997 - 2002
 Internal Medicine Program
 Department of Medicine, University of Calgary
 (~3 hours/year)

iv. Continuing Medical Education

Instructor – Difficult Airway Management Course 2013 – Present



Department of Critical Care Medicine
Alberta Health Services
(~8 hours/year)

Physician Training for eCritical System 2011 - Present
Developed physician training materials for eCritical Provincial Critical Care Clinical Information System (written and electronic physician manuals; case-based training guides; training cases). Distinct materials and training for adult and cardiac configurations and user groups. Guided the content, organization and testing of a eLearning tool for physician training. Led the implementation of physician training.
Alberta Health Services
(~275 hours)

Presenter - Rural Emergency Medicine Course 2007
Organ and Tissue Donation for Rural Practitioners
Banff, Alberta
(~4 hours)

Program Development and Delivery 2003 - 2010
Organ and Tissue Donation education
Development of various physician educational materials related to organ and tissue donation (adult and pediatric ordersets; program website with educational tools; guidelines for donor assessment and medical management).
Delivery of organ and tissue donation education via various means to various physician and non-physician groups throughout Southern Alberta.
Calgary Health Region and Alberta Health Services
(~40 hours/year)

Radiology Rounds 2000 - 2002
Presenter
Various Chest Radiology topics
Peter Lougheed Hospital
(~8 hours/year)

Presenter – Grand Rounds 1997 - Present
Critical Care Medicine
(~2 hours/year)

Presenter – Journal Clubs 1997 - Present
Pulmonary and Critical Care Medicine
(~6 hours/year)

Presenter - Medical Grand Rounds 1997 - 2005
Peter Lougheed Hospital
Department of Medicine

Rural Regional Conference Series 1998
Presenter
Blood Gas Analysis



UNIVERSITY OF
CALGARY

Vulcan, Alberta
(~4 hours)

Calgary Critical Care Nurses Group
Evening Seminar Series Lecturer
Various Critical Care Medicine topics
(~8 hours/year) 1997 - 2000

Morbidity & Mortality Conferences
Case Review and Presenter
Peter Lougheed and Foothills Hospitals
Department of Critical Care Medicine
(~40 hours/year) 1997 - Present

VI. ADMINISTRATIVE RESPONSIBILITIES

i. Departmental

Guideline Development and Implementation
Chlorhexidine-impregnated Central Line Dressings
Department of Critical Care Medicine 2011 - 2012

Guideline Development and Implementation
Management of the Critically ill ILI Patient
Department of Critical Care Medicine 2010 - 2011

Member – FMC ICU Medical Director Search
and Selection Committee 2010

Member – Respiriology Clinical Competence
Guidelines group
Division of Respiriology
Department of Medicine 2010 - 2011

Member – Pandemic Planning Group
Department of Critical Care Medicine 2009 - 2011

Co-chair – Infection Prevention Program
Department of Critical Care Medicine 2008 – 2011

Member – Quality and Safety Improvement
Committee
Department of Critical Care Medicine 2008 – 2012

ICU Clinical Information System Replacement Project
RFP Development, Evaluation and Vendor Selection
Department of Critical Care Medicine and
Advanced Technologies – Calgary Health Region 2007 - 2009

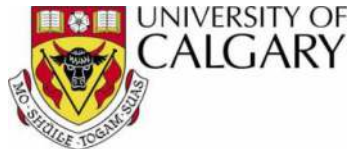
Co-chair – Quality Committee
Peter Lougheed Hospital ICU
Department of Critical Care Medicine 2007 – 2012

Member – ICU Clinical Information System
Replacement/eICU Project 2006 – 2010



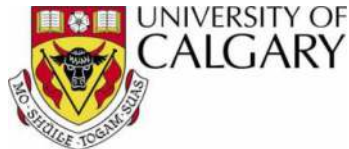
Department of Critical Care Medicine

Co-chair – Central Lines Working Group Department of Critical Care Medicine	2006 – 2008
Co-chair – PLC ICU Outreach Committee Peter Lougheed Hospital ICU Department of Critical Care Medicine	2006 – 2010
Member – Patient Care Information System (PCIS) Unit Council Peter Lougheed Hospital ICU Department of Critical Care Medicine	2006 – 2008
Member – Medical Executive Committee Department of Critical Care Medicine	2005 – 2012
Member – Patient Care Information System (PCIS) Clinical Working Group Department of Critical Care Medicine	2005 – 2009
Member – ICU Outreach Program Steering Committee Department of Critical Care Medicine	2005 – 2010
Member – Cross-site ICU Planning Committee Department of Critical Care Medicine	2005 – 2010
Reviewer – Critical Incident Reviews Clinical Safety and Quality Assurance Council Department of Critical Care Medicine	2005, 2007
Member – Patient Care Information System Critical Care Order Set Working Group Department of Critical Care Medicine	2004 - 2009
Member – Central Line Procedures Quality Improvement Working Group Department of Critical Care Medicine	2004 - 2006
Member – PLC ICU Capital Expansion Project Department of Critical Care Medicine	2004 – 2010
Member – Critical Care TRACER Database Redevelopment Project Department of Critical Care Medicine	2004 – 2011
Chair – Ventilator Associated Pneumonia Committee Canadian Critical Care Safety Collaborative and Department of Critical Care Medicine	2004 - 2009
Ventilator Associated Pneumonia Database Development Department of Critical Care Medicine	2003 – 2013
Member - Ventilator Associated Pneumonia	2003 – 2011

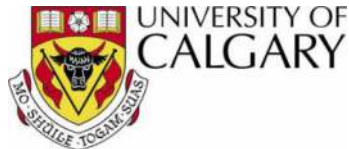


Surveillance Team
 Department of Critical Care Medicine and
 Calgary Health Region Infection Control Program

Critical Care Central Line Infection Surveillance Program Development Department of Critical Care Medicine	2003 - 2011
Member – ICU Research Executive Committee Department of Critical Care Medicine	2003 - Present
Guideline Development – Recombinant Activated Protein C Use in Severe Sepsis Department of Critical Care Medicine	2002 - 2003
Member – ‘Daily Goals’ Working Group Department of Critical Care Medicine	2002 - 2005
Site Research Leader Peter Lougheed Hospital Department of Critical Care Medicine	2001 - 2014
Member – Accreditation 2002 Committee Department of Critical Care Medicine	2001 – 2003
Member – ICU Executive Committee Department of Critical Care Medicine	2001 - 2012
Member – ICU Recruitment Committee Department of Critical Care Medicine	2001 - 2005
Member – ICU Residency Training Program Committee Department of Critical Care Medicine	2001 – 2004
Medical Director – Critical Care Unit Peter Lougheed Hospital Department of Critical Care Medicine	2001 - 2012
Chair - Regional Critical Care DVT Prophylaxis Quality Improvement Committee Department of Critical Care Medicine	2000 - 2007
Member – Mechanical Ventilation Protocols Quality Improvement Committee Department of Critical Care Medicine	2000 - 2005
Member – Peter Lougheed Hospital Department of Medicine Site Chief Search Committee	2000
Member – TRACER Database Renewal Group Department of Critical Care Medicine	1998 – 2000
Coordinator – TRACER/Morbidity Review Peter Lougheed Hospital Department of Critical Care Medicine	1998 - 2012



Member – Ventilator Associated Pneumonia Study Group Department of Critical Care Medicine	1997 - 2003
Chair - Critical Care Morbidity and Mortality Review Committee Peter Lougheed Hospital Department of Critical Care Medicine	1997 - 2012
ii. <u>Faculty of Medicine</u>	
Co-chair - Executive Council University of Calgary Medical Group Cumming School of Medicine	2016 - Present
Member – Billing Procedures Review Group University of Calgary Medical Group Executive Council Cumming School of Medicine	2016 - Present
Member – Advisory Committee TVN Grant - Developing an Evidenced-Informed Intensive Care Unit Discharge Toolkit University of Calgary and Alberta Health Services	2014 - Present
Member – Steering Committee PRIHS Grant - Identifying and Evaluating Intensive Care Unit Capacity Strain in Alberta University of Calgary and Alberta Health Services	2014 - Present
Member – Advisory Committee PRIHS Grant - Reassessing Practices in the Daily Care of Critically Ill Patients: Building Capacity and Methodology to Identify & Close Evidence-Care Gaps University of Calgary and Alberta Health Services	2014 - Present
Critical Care Department Head Search and Selection Ad Hoc Interviews University of Calgary and Alberta Health Services – Calgary Zone	2013
Member - Professional Development Fund Guidelines Working Group University of Calgary Medical Group Executive Council Faculty of Medicine	2010 - 2012
Scientific Reviewer Conjoint Health Research Ethics Board Cumming School of Medicine University of Calgary	2009 - Present



Video Development Title: Practically Speaking - Hand Hygiene for Medical Students Calgary Health Region (Infection Control Program) and Faculty of Medicine University of Calgary	2008
Member – Regional Critical Care Department Head Review Committee University of Calgary and Calgary Health Region	2007 – 2008
Member - University of Calgary Medical Group Executive Council – DCCM representative Cumming School of Medicine	2007 - Present
Department Leader – Regional Critical Care Department Head Search and Selection Committee University of Calgary and Calgary Health Region	2002 – 2003
Member - University of Calgary Medical Group Executive Council – PLC hospital representative Faculty of Medicine	2000 - 2007
University of Calgary Medical Group Executive Council - Alternate PLC hospital representative Faculty of Medicine	1998 - 2000
Adjunct Member – Faculty Council Faculty of Medicine University of Calgary	1998 - 2001

iv. Regional Health Authority

Member – eCritical TRACER Sub-Committees (adult, pediatric, cardiac and neonatal committees) eCritical Provincial Critical Care Clinical Information System Program Alberta Health Services	2017 – Present
Member – eCritical Provincial NICU Advisory Committee eCritical Provincial Critical Care Clinical Information System Program Alberta Health Services	2016 – Present
Member – Critical Care Strategic Clinical Network Adult Operations Liaison Committee Alberta Health Services	2016 – Present
Program Development - Key Performance Indicators Critical Care Strategic Clinical Network Alberta Health Services	2015 - Present
Member – Provincial Critical Care Information Systems	2014 – Present



Strategic Working Group/RFP Development Group
Alberta Health Services

Co-Chair - Donation after Cardio-circulatory Death
(DCD) Working Group
Calgary Zone
Alberta Health Services 2013 - Present

Member – eCritical TRACER Steering Committee
eCritical Provincial Critical Care Clinical
Information System Program
Alberta Health Services 2013 – Present

Member – eCritical TRACER Working Group
eCritical Provincial Critical Care Clinical
Information System Program
Alberta Health Services 2013 – Present

Member – Critical Care Strategic Clinical Network
Core Committee
Alberta Health Services 2012 – Present

Reviewer - Complex Quality Assurance
Review Committee
Quality Assurance Program
Alberta Health Services 2012

Medical Director
eCritical Provincial Critical Care Clinical
Information System Program
Alberta Health Services 2011 – Present

Member – Executive Leadership Team
eCritical Critical Care Clinical Information
System Project
Alberta Health Services 2010 – Present

Co-chair – Provincial Advisory Group
eCritical Critical Care Clinical Information
System Project
Alberta Health Services 2010 – 2014

Member – Alberta Critical Care Network Steering
Committee
Alberta Health Services 2010 – 2012

Co-chair – Clinical Informatics Council
Alberta Critical Care Network
Alberta Health Services 2010 – 2012

Advanced ICU Alarm and Event Management
System Project
Proposal and RFP Development; Vendor Evaluation and
Selection; Contract Negotiation and Implementation
Alberta Health Services 2009 - 2012



Member – eCritical Program Clinical Design Team Alberta Health Services	2009 – 2014
Reviewer – Extraordinary Therapeutic Requests Calgary Zone Pharmacy and Therapeutics Committee Alberta Health Services	2009
Co-chair – ECLS Use in H1N1 Disease Expert Advisory Committee Alberta Health Services	2009
Co-chair – Emergent Services Clinical Safety Committee Calgary Health Region	2008 - 2009
Video Development Title: Practically Speaking - Hand Hygiene for Medical Students Calgary Health Region (Infection Control Program) and Faculty of Medicine University of Calgary	2008
Medical Director – Southern Alberta Organ and Tissue Donation Program Calgary Health Region	2007 - 2010
Program Development – Alberta Provincial Organ and Tissue Donation Program Calgary Health Region	2006 – 2010
Co-Chair – HOPE (Human Organ Procurement and Exchange) Program Accreditation 2006 Committee Canadian Council on Health Services Accreditation Process HOPE Program Calgary Health Region	2005 – 2007
Member – Thromboembolism Diagnostic Algorithm Panel Calgary Health Region	2005 - 2007
Member – Regional Anticoagulation Guidelines Content Development Team Calgary Health Region	2005 - 2009
Member – Regional Integrated Ventilation Program Advisory Committee Calgary Health Region	2005 - 2009
Member – Sunrise Clinical Manager PCIS Testing Group Calgary Health Region	2004 - 2011
Co-Chair – Southern Alberta HOPE Advisory Committee Calgary Health Region	2004 - 2010



Chair – HOPE Organ Quality Assurance Committee Calgary Health Region	2004 - 2010
Member – Joint HOPE/Tissue Committee Calgary Health Region	2003 - 2010
Medical Director – HOPE Program Calgary Health Region	2003 - 2007
Department Leader – Regional Critical Care Department Head Search and Selection Committee University of Calgary and Calgary Health Region	2002 - 2003
Medical Director – Critical Care Unit Peter Lougheed Hospital	2001 - 2012
Member – Regional Adult Pharmacy and Therapeutics Committee Calgary Health Region	2000 - 2011
Reviewer – Regional Critical Incident Review Committee Calgary Health Region	2000
Consultant – Calgary Regional Health Authority Bow Valley Centre Employee Asbestos Survey	1997 - 1998

v. Hospital

Program Development PLC Simulation Centre Proposal development; Acquisition of funding; Detailed design and planning consultation; Implementation Peter Lougheed Hospital/Calgary Health Trust	2010 – 2014
Member – PLC Site Council Peter Lougheed Hospital	2001 - 2012

VII. PROFESSIONAL ACTIVITIES

i. Membership in Professional and Learned Societies

Fellow:	Royal College of Physicians and Surgeons of Canada	1995 - Present
	American College of Chest Physicians	1999 - Present
Member:	Alberta Medical Association	1990 - Present
	American Thoracic Society	1995 - Present
	Alberta Lung Association	1997 - Present
	Canadian Critical Care Society	1997 - Present
	Alberta Society of Intensive Care Physicians	1997 - Present
	Canadian Thoracic Society	1997 - Present
	Society of Critical Care Medicine	1998 - Present



COACH Canada Health Informatics Association
National Institutes of Health Informatics

2013 - Present
2015 - Present

ii. Professional Service

Grant Review

Reviewer - DCCM Research Competition 2010
Department of Critical Care Medicine

External Grant Reviewer - Max Bell Foundation 2007
Medical Research Grant Competition

Editorial Boards

Member - Editorial Advisory Board 2013 - 2015
Open Access Critical Care

National and International Committees

Member - National Stakeholder Consultation on 2008
Organ and Tissue Donation and Transplantation
In Canada
Canadian Blood Services

Member – Organ Donation Collaborative Expert 2006
Advisory Committee
Canadian Council for Donation and Transplantation

Member – Canadian Ventilator Associated Pneumonia 2005 - 2008
Consensus Guideline Working Group
Canadian Critical Care Trials Group

Member – Donation After Cardiocirculatory 2005
Death Forum
Canadian Council for Donation and Transplantation

Member – Ventilator Associated Pneumonia Committee 2004 - 2009
Canadian Critical Care Safety Collaborative

Government Agencies

Member – Provincial Stakeholder Consultation on 2013
Revised Legislation (Bill 207) Human Tissue and
Organ Donation Amendment Act
Ministry of Health
Government of Alberta

Member - Rapid HIV Testing Pilot Program 2008 - 2010
Health and Wellness
Government of Alberta

Physician Donation Leader for Southern Alberta 2003 - 2006



Health and Wellness
Government of Alberta

Member – Provincial SARS Advisory Committee 2003 - 2004
Health and Wellness
Government of Alberta

Chair – Provincial Brain Death Advisory Panel 2003
Health and Wellness
Government of Alberta

Member – Provincial Organ and Tissue Donation and 2002 - 2009
Transplantation Advisory Committee
Health and Wellness
Government of Alberta

Pulmonary Medicine Representative 1999 - 2001
Alberta Relative Value Guide Commission
Health and Wellness, Government of Alberta and
Alberta Medical Association

Other

Member – Competence Committee 2016 - Present
College of Physicians and Surgeons of Alberta

Scientific Reviewer 2009 - Present
Conjoint Health Research Ethics Board
Cumming School of Medicine
University of Calgary

Board Member – Canadian Intensive Care Foundation 2003 - 2009
(Calgary Chapter)

Member – Celebrate Life Event Planning Committee 2001 - 2008
Canadian Intensive Care Foundation (Calgary Chapter)

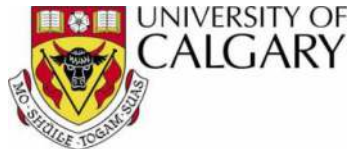
Courses Attended

Haskayne/Cumming School of Medicine 2017 - 2018
Leadership Program
University of Calgary

Good Clinical Practice for Clinical Research 2017
Level 1 - Basic
CITI-Canada Collaborative Institutional Training Initiative
AIHS Alberta Clinical Research Consortium

Good Clinical Practice for Clinical Research 2015
Stage 2 Refresher course
CITI-Canada Collaborative Institutional Training Initiative
AIHS Alberta Clinical Research Consortium

Tri-Council Policy Statement: Ethical Conduct for 2013



Research Involving Humans Course on
Research Ethics (TCPS 2: CORE)
Health Canada

Leadership Strategies for Information Technology 2013
in Health Care
Harvard School of Public Health

Biomedical Research Ethics course 2013
CITI-Canada Collaborative Institutional Training Initiative
AIHS Alberta Clinical Research Consortium

Good Clinical Practice for Clinical Research course 2013
CITI-Canada Collaborative Institutional Training Initiative
AIHS Alberta Clinical Research Consortium

Responsible Conduct of Research course 2013
CITI-Canada Collaborative Institutional Training Initiative
AIHS Alberta Clinical Research Consortium

Good Clinical Practice Investigator Responsibilities 2011
Glaxo-Smith-Kline sponsored Seminar

ARECCI Project Ethics Course Level 1 2010
How to Integrate an Ethical Approach in Quality
Improvement and Evaluation
Alberta Research Ethics Community Consensus Initiative
Alberta Innovates – Health Solutions

Effective Approach Workshop 2010
Calgary
Canadian Blood Services

Physician Management Institute PMI V Course 2008
Vancouver, BC
Canadian Medical Association

Serious Adverse Event Management/Clinical 2008
Safety Committees Training Course
Calgary Health Region

Disclosure Training Course 2007
Calgary
Calgary Health Region

PMI III/IV Courses 2006
Niagra on the Lake, ON
Canadian Medical Association

Interventional Bronchoscopy Course 2006
Montreal, QB
CHUM Hospital Group

PMI I/II courses 2003
Victoria, BC
Canadian Medical Association



Basic Modular Workshop (Resident Evaluation) Royal College of Physicians Surgeons Canada	2002
ATLS Instructor University of Calgary	1999

VII. RESEARCH SUPPORT

Peer-reviewed Grants/Contracts

Principle Investigator

Measuring Clinical Frailty in an Electronic Medical Record System: a Tool to Guide Clinical Care, Quality Improvement and Research Site: Alberta Health Services Support: Technology Value Network (Centres of Excellence of Canada) Amount: \$100,000.00 (Co-PI)	2015 - 2017
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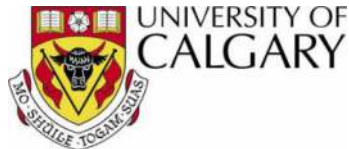
Do Internal Jugular Vein Measurements Made By Ultrasound Correlate with Fluid Responsiveness in Ventilated Post-Operative Cardiac Surgical Patients? Site: Calgary Health Region Support: Department of Critical Care Medicine Amount: \$5000.00 (PI)	2007 - 2010
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A randomized trial of empiric broad-spectrum antibiotics and invasive diagnostic techniques in the setting of ventilator-associated pneumonia Site Principle Investigator Site: Peter Lougheed Hospital Support: CIHR (Multicentre Clinical Trial) Amount: \$47,300.00 (site portion) (Site PI)	2002 – 2005
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Hemodynamic effects of proportional assist ventilation in patients post aortocoronary bypass grafting Site: Foothills Hospital, Calgary Support: Research and Development Committee, Foothills Hospital Amount: \$5,271.00 (PI)	1996 - 2001
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Sodium-potassium ATPase activity during the induction and resolution of pulmonary edema Site: Respiratory Research Group, University of Calgary Support: Heart and Stroke Foundation of Canada (Research Fellowship) \$39,000.00	1991 - 1992
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Alberta Heritage Foundation for Medical Research (Equipment grant)
\$5,000.00
(Trainee awards)



Coinvestigator

Prioritization of Evidence-based Best Practices for Implementation in Adult Critical Care Medicine Site: Alberta Health Services Support: MSI Foundation Amount: \$89,000.00	2017 - Present
Reengineering the Discharge of Elderly Patients from Intensive Care: Pre-Clinical Evaluation of a Tool Kit Site: Alberta Health Services Support: Technology Value Network (Centres of Excellence of Canada) Amount: \$99,938.00	2016 - 2018
Identifying and Evaluating Intensive Care Unit Capacity Strain in Alberta Site: Alberta Health Services Support: Alberta Innovates (Health Solutions) Amount: \$743,818.00	2014 - 2018
Reassessing Practices in the Daily Care of Critically Ill Patients: Building Capacity and Methodology to Identify & Close Evidence-Care Gaps Site: Alberta Health Services Support: Alberta Innovates (Health Solutions) Amount: \$748,790.00	2014 - 2018
Re-engineering ICU Discharge in the elderly: Development of an Evidence-Informed Tool Site: Alberta Health Services Support: Technology Value Network (Centres of Excellence of Canada) Amount: \$589,573.00	2014 - 2016
Use of a smart phone application to improve antimicrobial stewardship practices in Calgary intensive care units Site: Alberta Health Services Support: Alberta Innovates Health Solutions (Alberta Sepsis Network) Amount: \$37,000.00	2013 - 2014
Identifying Intensive Care Unit Discharge Planning Tools Site: Alberta Health Services Support: CIHR Amount: \$49,982.00	2012 - 2014
Oscillation for ARDS treated early (OSCILLATE) trial Site: Peter Lougheed Hospital Support: CIHR (Multicentre Clinical Trial)	2010 - 2012
Performance enhancement of the Canadian nutrition guidelines by a tailored implementation strategy: The PERFECTIS study Site: Peter Lougheed Hospital Support: Kingston General Hospital	2009 - 2012
Critical care epidemiologic and biologic tissue bank resource (CCEPTR) for infection and inflammation in the ICU Site: Alberta Health Services Support: Alberta Science and Research Authority (ASRA), Canadian Foundation for Innovation (CFI), University of Calgary	2009 - Present



Age of blood evaluation (ABLE) trial in the resuscitation of critically ill patients Site: Peter Lougheed Hospital Support: CIHR (Multicentre Clinical Trial)	2009 - 2014
Emergency department factors associated with the development of acute lung injury in patients with severe sepsis or septic shock Site: Calgary Health Region Support: CHR Research Office Amount: \$5,000.00	2008 - 2012
A retrospective review of feeding practices in the ICU after open abdominal aortic aneurysm (AAA) repair Site: Peter Lougheed Hospital Support: Canadian Foundation for Dietetic Research Amount: \$4,920.00	2007 - 2012
Survival using Glucose Algorithm Regulation (NICE-SUGAR Trial) Site: Peter Lougheed Hospital Support: CIHR (Multicentre Clinical Trial)	2007 - 2010
Prophylaxis of Thromboembolism in Critical Care (PROTECT Trial) Site: Peter Lougheed Hospital Support: CIHR (Multicentre Clinical Trial)	2006 - 2010

Industry Sponsored Grants/Contracts

Investigator-Initiated Industry-Sponsored Grants

Implementation and evaluation of revised protocols for oral hygiene for mechanically ventilated patients in Alberta Health Services Calgary Region – a pilot project Principle Investigator (local investigator-initiated industry-sponsored trial) Site: Alberta Health Services - Calgary Zone Support: SAGE Products Inc Amount: \$49,836.25	2010 - 2015
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Industry-Sponsored Grants - Principle Investigator

A phase 3 randomized double-blind study of 2 IV gram-positive antibiotics in ventilated gram-positive nosocomial pneumonia Site: Peter Lougheed Hospital Support: Trius/Cubist Pharmaceuticals Amount: Ongoing clinical trial	2013 - 2017
Treatment of Septic Shock by Inhibiting Auto-digestion and Preserving Gut Integrity with Enteric LB1148 (SSAIL Study) Support: Leading Biosciences Inc. Amount: \$42,146.13	2015 - 2016
A Phase III international, multi-center, randomized, double-blind, double-dummy study to evaluate the efficacy and safety of 300 mg or 600 mg of intravenous zanamivir twice daily compared to 150 mg of oral oseltamivir twice daily in the treatment of hospitalized adults and adolescents with influenza	2010 - 2015



Site: Peter Lougheed Hospital
Support: GlaxoSmithKline
Amount: \$112,852.00

Efficacy and safety of drotrecogin alfa (activated) in adult patients with septic shock 2008 - 2012
Site: Alberta Health Services - Calgary Zone
Support: Eli Lilly
Amount: \$299,251.89

A pivotal, multicenter, multinational, randomized, double-blind, placebo-controlled study to evaluate the efficacy and safety of TAK-242 in adults with severe sepsis 2005 - 2007
Site: Peter Lougheed Hospital
Support: Takeda Pharmaceutical Company Ltd.
Amount: \$72,640.53

A randomized double-blind placebo-controlled trial of prophylactic heparin inpatients with severe sepsis and high disease severity who are undergoing treatment with drotrecogin alfa (activated) 2003 - 2005
Site: Peter Lougheed Hospital
Support: Eli Lilly
Amount: \$31,823.00

Efficacy and safety of drotrecogin alfa (activated) in adult patients with early stage severe sepsis 2002 - 2005
Site: Peter Lougheed Hospital
Support: Eli Lilly
Amount: \$25,043.00

Long-term follow-up of survivors from the PROWESS trial (an observational study) 2001 - 2002
Site: Peter Lougheed Hospital
Support: Eli Lilly
Amount \$2,000.00

A phase 3 study to demonstrate the safety and efficacy of recombinant platelet-activating factor acetylhydrolase (rPAF-AH, Pafase®) for reducing 28 day all cause mortality in patients with severe sepsis 2001 - 2003
Site: Peter Lougheed Hospital
Support: ICOS Corporation
Amount: \$63,500.00

A phase III study to determine the efficacy and safety for recombinant human activated protein C in severe sepsis 1998 - 2001
Site: Peter Lougheed Hospital
Support: Eli Lilly
Amount: \$251,818.25

Multicenter, double-blind, placebo controlled, randomized phase 3 study of tifacogin (recombinant tissue factor pathway inhibitor (rTFPI/SC-59735) in severe sepsis 2000 - 2001
Site: Peter Lougheed Hospital
Support: Chiron/Pharmacia
Amount: \$162,244.18



Industry-Sponsored Grants - Coinvestigator

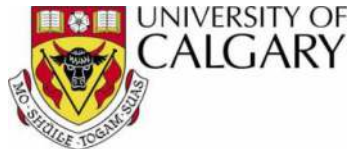
<p>A Phase 2, Multicenter, Randomized, Double-Blind, Comparator-Controlled Study of the Efficacy, Safety, and Pharmacokinetics of Intravenous Ulimorelin (LP101) in Patients with Enteral Feeding Intolerance Site: Peter Lougheed Hospital Support: Lyric Pharmaceuticals Inc</p>	<p>2016 – Present</p>
<p>Phase 2 randomized, double-blind placebo-controlled trial of MHAA4549A, a monoclonal antibody in combination with oseltamivir versus oseltamivir for treatment of severe influenza infection Site: Peter Lougheed Hospital Support: Genetech</p>	<p>2015 - Present</p>
<p>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. Site: Peter Lougheed Hospital Support: Asahi Kasei Pharma America Corporation</p>	<p>2012 – Present</p>
<p>Nutritional adequacy therapeutic enhancement in the critically ill: A randomized double blind, placebo-controlled trial of the motilin receptor agonist GSK962040. The NUTRIATE Study Site: Peter Lougheed Hospital Support: GlaxoSmithKline</p>	<p>2013 - 2016</p>
<p>A randomized, double-blind, placebo-controlled study of the efficacy and safety of TAK-242 versus placebo in subjects with sepsis induced cardiovascular and respiratory failure Site: Peter Lougheed Hospital Support: Takeda Pharmaceutical Company Ltd.</p>	<p>2008 - 2010</p>
<p>A Phase-3, Long-term, Open-Label, Multicenter Safety and Efficacy Study of Ambrisentan in Subjects with Pulmonary Hypertension (Aries -3 study) Site: Peter Lougheed Hospital Support: Gilead</p>	<p>2007 - 2010</p>
<p>A Randomized, Double-Blind, Placebo-Controlled, Phase 3 Study of the Safety and Efficacy of Interferon gamma-1b in Patients with Idiopathic Pulmonary Fibrosis (Inspire Study) Site: Peter Lougheed Hospital Support: InterMune</p>	<p>2007 - 2010</p>
<p>Effects of bosentan on morbidity and mortality in patients with Idiopathic Pulmonary Fibrosis – a multicenter, double-blind, randomized, placebo-controlled, parallel group, event-driven, phase 111 study (Build-3 study) Site: Peter Lougheed Hospital Support: Actelion Pharmaceuticals Canada</p>	<p>2007 - 2010</p>
<p>A Long-Term, Open-Label Study to Evaluate the Safety of Sitaxsentan Sodium Treatment in Patients with Pulmonary Arterial Hypertension (STRIDE-3 study) Site: Peter Lougheed Hospital Support: Encysive</p>	<p>2007 - 2009</p>



Effect of roflumilast on exacerbation rate in patients with COPD. A 52 weeks, double-blind study with 500ug roflumilast once daily versus placebo. Site: Peter Lougheed Hospital Support: Atlana Inc.	2006 - 2009
A randomized double-blind placebo controlled phase 3 three-arm study of the safety and efficacy of pirfenidone in patients with idiopathic pulmonary fibrosis Site: Peter Lougheed Hospital Support: Intermune Inc.	2006 - 2010
A phase 3 long-term open-label multicenter safety and efficacy study of ambrisentan in subjects with pulmonary hypertension Site: Peter Lougheed Hospital Support: Myogen Inc.	2006 – 2008
The safety, pharmacokinetics, and pharmacodynamic effects of TNX 832 (Sunol-cH36) in patients with acute lung injury/acute respiratory distress syndrome Site: Peter Lougheed Hospital Support: Tanox Inc	2005 - 2006
A randomized double-blind placebo controlled multicenter study to assess the efficacy safety and tolerability of bosentan in patients with mildly symptomatic pulmonary arterial hypertension Site: Peter Lougheed Hospital Support: Actelion Pharmaceuticals Canada	2005 - 2008
A prospective randomized double-blind placebo-controlled dose ranging multicenter study of the safety and efficacy of three days continuous intravenous infusion of GR270773 in the treatment of suspected or confirmed gram-negative severe sepsis in adults Site: Peter Lougheed Hospital Support: GSK Canada	2005 - 2007
A multicenter, randomized, controlled trial comparing the safety and effectiveness of Surfaxin (Lucinactant) delivered via bronchopulmonary segmental lavage to standard of care in patients with acute respiratory distress syndrome (ARDS) Site: Peter Lougheed Hospital Support: Discovery Laboratories Inc.	2004 - 2006
A phase 3, multicenter, randomized, placebo-controlled, double-blind, three-arm study to evaluate the safety and efficacy of tifacogin (Recombinant Tissue Factor Pathway Inhibitor) administration in subjects with severe community-acquired pneumonia Site: Peter Lougheed Hospital Support: Chiron Corporation	2004 - 2009
A Twelve Week Multi-Centre, Randomized, Double-Blind, Parallel Group, Comparative Trial of Advair 50/100 mcg Diskus Inhalation Device BID versus Flovent 250 mcg Diskus Inhalation Device BID in Adolescents and Adults with Persistent Asthma Site: Peter Lougheed Hospital Support: GlaxoSmithKline	2003 - 2006



A 24 week placebo-controlled randomized parallel Group study comparing roflumilast 500 mcg daily vs placebo on pulmonary function and respiratory symptoms in patients with COPD Site: Peter Lougheed Hospital Support: Atlana	2003 – 2005
A phase III study with freeze dried HL 10, three dosages of 200 mg/Kg ideal body weight versus standard therapy in ALI/ARDS patients Site: Peter Lougheed Hospital Support: Leo Pharma	2002 – 2004
A phase II multicenter randomized double-blind placebo-controlled parallel group dose-ranging evaluation of the safety and efficacy of hANP infusion (carperitide) in patients with acute respiratory distress syndrome (ARDS) Site: Peter Lougheed Hospital Support: Suntory Corporation	2002 – 2003
Spiriva assessment of FEV1 (SAFE). The effect of Inhaled tiotropium bromide (18 ug once daily) on the change in FEV1 during long-term treatment in patients with COPD. Site: Peter Lougheed Hospital Support: Boehringer Ingelheim Canada	2002 – 2005
A comparison of treatment with 250ug roflumilast Versus placebo over 24 weeks in patients with chronic obstructive pulmonary disease (COPD). Site: Peter Lougheed Hospital Support: Altana Pharma Inc	2002 – 2004
Comparison of fluticasone (250ug bid) and ciclesonide (400ug od in the morning or evening) in asthma therapy. Site: Peter Lougheed Hospital Support: Altana Pharma Inc	2002 – 2004
The effectiveness and safety of an individualized Symbicort TM Turbuhaler maintenance dosing regimen versus Symbicort TM Turbuhaler given as regular twice daily therapy (SMART trial) Site: Peter Lougheed Hospital Support: AstraZeneca Canada	2001 – 2002
Gaining optimal asthma control (GOAL): A multicentre, stratified, randomized, double-blind, parallel-group, step-up comparison of the level of asthma control achieved with salmeterol/fluticasone propionate combination discus (Accuhaler) DPI compared with fluticasone propionate discus (Accuhaler) alone in adults and adolescents Site: Peter Lougheed Hospital Support: GlaxoSmithKline	2001 - 2002
Multicentre, open label, single arm, safety study with Tracleer (bosentan) in patients with pulmonary arterial hypertension Site: Peter Lougheed Hospital Support: Actelion Pharmaceuticals Canada	2001 - 2002
Real life effectiveness of Oxis Turbuhaler as needed in asthmatic patients during six months (RELIEF) Site: Peter Lougheed Hospital	2000 – 2001



Support: Astra Zeneca

Effect of tiotropium on exercise tolerance and static and dynamic lung volumes in COPD patients (A randomized, double-blind, placebo-controlled, parallel group study) 2000 – 2001
Site: Peter Lougheed Hospital
Support: Boehringer Ingelheim Canada

A multi-centre, multinational, double-blind, placebo-controlled, group comparative study to investigate the effects of Viozan™ (tid) via pMDI compared with placebo (tid) in adult patients with chronic obstructive pulmonary disease 2000 - 2001
Site: Peter Lougheed Hospital
Support: Convance

A randomized, double-blind, placebo-controlled, 12-week smoking cessation trial of Zyban (150 mg bid) in adult smokers previously treated with Zyban 1999 - 2001
Site: Peter Lougheed Hospital
Support: Glaxo-Wellcome

12 week treatment with 500 ug roflumilast versus 10 mg montelukast in patients with asthma 1999 - 2001
Site: Peter Lougheed Hospital
Support: BYK Canada

12 Weeks treatment with 200 or 800 ug/d ciclesonide versus placebo followed by 40 weeks treatment with ciclesonide in asthmatic patients 1998 - 2001
Site: Peter Lougheed Hospital
Support: Byk Canada Inc.

A randomized, double-blind, within-patient, comparison of foradil 12 ug bid and salbutomal 200 ug qid when added to regular treatment with ipratropium bromide 40 ug qid in patients with COPD 1998 – 2000
Site: Peter Lougheed Hospital
Support: Novartis

Identification of candidate asthma genes in DNA from peripheral blood from asthmatics and their parents 1998 - 1999
Site: Peter Lougheed Hospital
Support: Boehringer Ingelheim

A clinical and economic comparison of formoterol Turbuhaler versus salmeterol and salbutamol pMDI in asthmatic patients not well-controlled on inhaled steroid therapy 1997 - 1999
Site: Peter Lougheed Hospital
Support: Astra

A multicenter open-label study to confirm the ability of montelukast sodium to allow tapering of inhaled corticosteroids in asthmatic patients 1997 - 1999
Site: Peter Lougheed Hospital
Support: Merck-Frosst

IX. INVITED ADDRESSES



Primary Presenter

Zuege D. The Value of eCritical. Presented at eCritical Program Lunch and Learn Sessions, Alberta (Telehealth), Jan 2017.

Zuege D. eCritical for Critical Care Physicians. Presented at Red Deer Regional Hospital Critical Care Rounds, Red Deer, Feb 2016.

Zuege D. eCritical for Critical Care Physicians. Presented at Chinook Regional Hospital Critical Care Rounds, Lethbridge, Nov 2015.

Zuege D. eCritical for Critical Care Physicians. Presented at Medicine Hat Regional Hospital Medical Rounds, Medicine Hat, May 2015.

Zuege D, G Hind, K Panesar. Critical Care Informatics and Respiratory Therapy. Presented at CARTA (College and Association of Respiratory Therapists of Alberta) 2014 Annual Conference, Calgary, Oct 2014.

Zuege D, M Agyemang, S Seminowich. eCritical – Information Utilization in Critical Care. Presented to AHS Enterprise Business Intelligence Community Learning Session, Mar 2014.

Zuege D and G Duchsherer. CASS for VAP – are you in? Continuous aspiration of subglottic secretions for the prevention of ventilator associated pneumonia. Presented at PICU Grand Rounds, Alberta Childrens Hospital, Mar 2011.

Zuege D and L Knox. Prowess Shock Study – Musings Challenges and Success from Calgary. Presented at Prowess Shock Canadian Investigators Meeting, Toronto, Oct 2009.

Zuege D and M Ridic. Organ and Tissue Donation. Presented to ICU Grand Rounds, Lethbridge Regional Hospital, Mar 2009.

Zuege D. Sepsis and Ocular Donation. Presented to the Lions Eye Bank (Alberta) Annual Education Day, Calgary, Sept 2008.

Zuege D. Organ and Tissue Donation for Rural Practitioners. Presented at Rural Emergency Conference. Banff, Jan 2007.

Zuege D. ARDS – New and Upcoming Therapies. Presented at CARTA (College and Association of Respiratory Therapists of Alberta) 2006 Annual Conference, Calgary, Nov 2006.

Zuege D. Prevention of Ventilator-Associated Pneumonia. Presented at Safer Health Care Now Conference, Calgary, May 2005.

Zuege D. ARDS – Are we any further ahead? Presented at Respiratory Therapy Education Day, Calgary, Nov 2004.

Zuege D. Vasculitis. Presented to the Canadian Council of Cardiovascular Nurses, Calgary, Jan 1999.

Zuege D. Arterial Blood Gases. Presented at the Regional Conference Series, Vulcan, Alberta, Nov 1998.

Zuege D. The role of the sodium-potassium ATPase during the resolution of pulmonary edema. Presented to the Respiratory Research Group, University of Calgary, April 1993.

Zuege D, Bagley J, Berthiaume Y, and Schurch S. Correlation Between Surface Affinity and Adhesiveness of Normal Human Neutrophils. Presented at Heritage Medical Research Days, Edmonton, Alberta, November 1988.



Secondary Presenter (co-investigator)

Lord J, **Zuege D**, Roze des Ordon A, Palacios-McKay M, Lockyer J. Impact of a one month ICU rotation on resident confidence and competence in central line insertion. Presented at Office of Health and Medical Education Scholarship Symposium, Calgary, Feb 2017.

Parfitt E, Campsall P, Missaghi B, Vaughan S, Chaubey V, Dalton B, Ross T, **Zuege D**, Gregson D, Conly, J. A smartphone application to improve antimicrobial stewardship practices in Calgary intensive care units. Presented at 2016 Peer Leader Symposium: Building Peer Leader Bridges to Advance Clinical Practice event, Toronto, March 2016.

Parfitt E, Campsall P, Missaghi B, Vaughan S, Chaubey V, Dalton B, Ross T, **Zuege D**, Gregson D, Conly, J. A smartphone application to improve antimicrobial stewardship practices in Calgary intensive care units. Presented at the Innovation Academy, Ward of the 21st Century, University of Calgary, Calgary, Nov 2013.

Wilson B, Cowan H, Elliot T, **Zuege D**, Lord J, Zygun D. Factors associated with the development of acute lung injury in emergency department patients with severe sepsis. Presented at Canadian Society of Internal Medicine, Halifax, Oct 2011.

Shahpori R, Kushniruk A, Hebert M, **Zuege D**. Tele-ICU; A Canadian Review. Presented at Information Technology and Communications in Health (ITCH) Conference, Victoria, BC Feb 2011.

Shahpori R, Kushniruk A, Hebert M, **Zuege D**. Tele-ICU Is there a need? Presented at 2010 e-Health Conference, Vancouver, BC May 2010.

Shahpori R, Delosangeles A, Ritchie P, **Zuege D**. Ventilator Associated Pneumonia (VAP) Surveillance System. Presented at 2008 e-Health Conference, Vancouver, BC May 2008.

Shahpori R, Delosangeles A, Ritchie P, **Zuege D**. Ventilator Associated Pneumonia Surveillance System Presented at 6th Annual Quality Improvement Forum, Calgary, Feb 2008.

Seminowitch S, Beninger C, **Zuege D**, Yilmaz S. Organ Procurement Database: Real Time Data Entry and Electronic Transfer of Information. Presented at Canadian Association of Transplantation meeting, Banff, Jan 2007.

X. PUBLICATIONS/PRESENTATIONS

i. Peer reviewed manuscripts

Peer reviewed manuscripts - Published

1. Berthiaume Y, **Zuege D**, Bagley J, and Schurch S. Correlation Between Cell-substrate Adhesion of Two Neutrophils and Their Surface Properties in Aqueous Two-phase Polymer Solutions. Colloids and Surfaces 59:155-167, 1991.

2. Suzuki S, **Zuege D**, and Berthiaume Y. Sodium-independent Modulation of Na-K-ATPase Activity by Beta-adrenergic Agonist in Alveolar Type II Cells. Am. J. Physiol. 268 (Lung Cell Mol. Physiol. 12):L983-L990, 1995.

3. Rosenal T, Patterson R, Wakefield S, **Zuege D**, Lloyd-Smith G. Physician Involvement in Hospital Information System Selection: A Success Story. MEDINFO 95 Proceedings 1(1):554-558, 1995.



4. **Zuege D**, Suzuki S, and Berthiaume Y. Activation of Lung Sodium-Potassium ATPase During the Recovery From High-permeability Pulmonary Edema. *Am. J. Physiol.* 271 (Lung Cell Mol. Physiol. 15):L896-L909, 1996.
5. **Zuege D**, and Mody C. Fungal Pneumonias in the Non-Immunocompromised Host. *Clin. Pulm. Med.* 4(5):254-265, 1997.
6. **Zuege D**, and Whitelaw W. Treatment of Acute Respiratory Failure in Chronic Obstructive Lung Disease. *Curr. Opinion Pulm. Med.* 3:190-197, 1997.
7. Mitchell J, Sas R, **Zuege D**, Doig C, Smith E, Whitelaw W, Tyberg, J, Belenkie I. Ventricular interaction during mechanical ventilation in closed-chest anesthetized dogs. *Canadian Journal of Cardiology.* 21(1):73-81, 2005.
8. Laupland K, Kirkpatrick A, Kortbeek J, **Zuege D**. Long-term Mortality Outcome Associated with Prolonged Admission to the Intensive Care Unit. *CHEST* 129:954-959, 2006.
9. Delaney A, Gray H, Laupland K, **Zuege D**. Kinetic bed therapy to prevent nosocomial pneumonia in mechanically ventilated patients: A systematic review and meta-analysis. *Crit Care* 10(3): R70 (EPub), 2006.
10. Zygun D, **Zuege D**, Boiteau P, Laupland K, Henderson E, Kortbeek J, Doig C. Ventilator-Associated Pneumonia in Severe Traumatic Brain Injury. *Neurocritical Care* 05:108-114, 2006.
11. **The Canadian Critical Care Trials Group**. A randomized trial of diagnostic techniques for ventilator-associated pneumonia. *New Engl J Med* 355(25):2619-2630, 2006. (**D Zuege** part of the Canadian Critical Care Trials Study Group for this study)
12. Esmail R, Duchscherer G, Giesbrecht J, King J, Ritchie P, **Zuege D** for the Ventilator Associated Pneumonia Team. Prevention of Ventilator Associated Pneumonia in the Calgary Health Region: A Canadian Success Story. *Healthcare Quarterly* 11:129-136, 2008.
13. Muscedere J, Dodek P, Keenan S, Fowler R, Cook D, Heyland D for the **VAP Guidelines Committee** and the Canadian Critical Care Trials Group. Comprehensive Evidence-Based Clinical Practice Guidelines for Ventilator Associated Pneumonia: Prevention. *J. Crit Care* 23:126-137, 2008. (**D Zuege** part of the VAP Guidelines Committee for this study)
14. Muscedere J, Dodek P, Keenan S, Fowler R, Cook D, Heyland D for the **VAP Guidelines Committee** and the Canadian Critical Care Trials Group. Comprehensive Evidence-Based Clinical Practice Guidelines for Ventilator-Associated Pneumonia: Diagnosis and Treatment. *J. Crit Care* 23:138-147, 2008. (**D Zuege** part of the VAP Guidelines Committee for this study)
15. Heyland D, Dodek P, Muscedere J, Day A, Cook D for the **Canadian Critical Care Trials Group**. Randomized trial of combination versus monotherapy for the empiric treatment of suspected ventilator-associated pneumonia. *Crit Care Med* 36(3):737-744, 2008. (**D Zuege** part of Canadian Critical Care Trials Study Group for this study)
16. Dalton B, **Zuege D**, Shahpori R, Laupland K. Lack of significant risk associated with concomitant ceftriaxone and intravenous calcium therapy in adult critical care patients. *Ann of Pharmacotherapy* 44 (7): 1158-63, 2010.
17. Wilson B, Cowan H, Lord J, **Zuege D**, Zygun D. The accuracy of pulse oximetry in emergency department patients with severe sepsis and septic shock: a retrospective cohort study. *BMC Emerg Med* 10(9), 2010.

18. Shahpori R, Kushniruk A, Hebert M, **Zuege D**. Tele-ICU - A survey of the attitudes and perspectives of critical care clinicians. *J Crit Care*. 26(3): 328.e9-328.e15, 2011.
19. Shahpori R, Kushniruk A, Hebert M, **Zuege D**. Tele-ICU - A Canadian Review. *Stud Health Technol Inform*. 164:420-4, 2011.
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21. Ksienski M, Fenton T, Eliasziw M, **Zuege D**, Petrasek P, Shahpori R, Laupland K. A cohort study of nutrition practices in the intensive care unit following abdominal aortic aneurysm repair. *JPEN J. Parenter Enteral Nutr*. 37:261-267, 2013.
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iii. Communications

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