

## CURRICULUM VITAE

Feb. 28, 2017

Daren Keith Heyland MD, FRCPC, MSc.

### I. PERSONAL INFORMATION

Name: Daren Keith Heyland  
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Personally maintained websites:

[www.ceru.ca](http://www.ceru.ca)

[www.criticalcarenutrition.com](http://www.criticalcarenutrition.com)

[www.thecarenet.ca](http://www.thecarenet.ca)

### II. PRESENT ACADEMIC RANK AND POSITION

Full Professor of Medicine, Queen's University (tenured, July 2005)

### III. EDUCATION

- 1987 Bachelor of Medical Science, University of Alberta.
- 1989 Doctor of Medicine with distinction, University of Alberta.  
Licentiate with Medical Council of Canada.
- 1994 Master's Degree in Health Sciences, Design, Measurement, and Evaluation Program,  
McMaster University.

### IV. ROYAL COLLEGE CERTIFICATION, CERTIFICATE OF COMPETENCY, AMERICAN BOARD CERTIFICATION

- 1995 Fellow, Royal College of Physicians and Surgeons of Canada, Internal Medicine.
- 1996 Royal College of Physicians and Surgeons of Canada Specialty in Critical Care

### V. HONORS AND AWARDS

- 1980, 1983-85 Presidential Scholarship, Brigham Young University.
- 1990 Regional Medical Associates Research Scholarship
- 1993 E. Garner King Award from Canadian Critical Care Society for Best Young Investigator.
- 1994 Internal Medicine Resident's Research Competition- Third Prize.
- 1994 Regional Medical Associates Research Scholarship
- 1995 Internal Medicine Resident's Research Competition- First Prize, David L. Sackett Award.
- 1996 E. Garner King Award from Canadian Critical Care Society for Best Young Investigator.
- 1996-2005 Career Scientist Award, Ministry of Health, Ontario, Canada (a multi-year award that provides approximately \$60,000/year for salary support)
- 2005 Excellence in Research Award, Department of Medicine, Queen's University.
- 2017 Rhoads Research Lecture and Award American Society of Parenteral and Enteral Nutrition, February 21, 2017

## **VI. PREVIOUS PROFESSIONAL POSITIONS AND APPOINTMENTS**

1991-92	Emergency Physician, Med-Emerg Inc., Ontario.
1991-94	Temporary Staff, Greater Niagara Regional Hospital, Ontario. Locums in Family practice.
1991-96	Critical Care Clinical Assistant, McMaster University Affiliated Hospitals, Hamilton, Ontario.
1996	Staff Physician, Kingston General Hospital, Hotel Dieu, and St. Mary's of the Lake Hospital, Kingston, Ontario.
1996-2001	Assistant Professor, Department of Medicine, Queen's University, Kingston, Ontario.
2001-2005	Associate Professor, Department of Medicine, Queen's University, Kingston, Ontario.
2005-	Full Professor, Department of Medicine, Queen's University, Kingston, Ontario

## **VII. EDUCATION – TEACHING**

### Medical School

Taught Critical Appraisal to 2nd year Medical Students, Queen's University.  
Involved 6, 2 hour small group sessions per year.

### Graduate School

Teach "Decision Making Near the End of Life" seminars to house staff at Kingston General  
Hospital.

Involves 6, 1 hour small group sessions per year with all the house staff rotating through the ICU  
Teach core subjects to ICU Residents, approximately 20/year

### Other institutions (prior to current position)

1992-1993 - Tutor for "How to teach critical appraisal" workshop at McMaster University.

## **VIII. EDUCATION – JOURNALS**

### Scientific Reviewer for the Following Journals:

- 1) Journal of the American Medical Association
- 2) Chest
- 3) American Journal of Respiratory and Critical Care Medicine
- 4) Intensive Care Medicine
- 5) Critical Care
- 6) Journal of Palliative Care

## **IX. GRADUATE STUDENT/POSTDOCTORAL FELLOWS**

- 1) Jim Lavery, 1 year, SSHRC Postdoctoral award
- 2) Shaun MacDonald, 1 year, Critical Care Research Fellow
- 3) Frantisek Novak, 1 year, Critical Care Research Fellow
- 4) Rupinder Dhaliwal, 2 years, Nutrition Research Fellow
- 5) Dianne Groll, 2 years, CIHR Postdoctoral award
- 6) Naomi Jones, 2 years, MSc Epidemiology student
- 7) Jeanette Suurdt, 2 years, Masters of Nursing
- 8) Naomi Jones, 4 years, PhD, Epidemiology
- 9) Carolina Aguilar, 4 years PhD, Health Economics
- 10) Jen Kryworuchko, 4 years, PhD, Nursing
- 11) Raymond Fong, 4 years, PhD, Community Health & Clinical Epidemiology
- 12) Shelly Wei, 2 years, MSc, Community Health & Clinical Epidemiology
- 13) Roger Leung, 2 years, MSc, Community Health & Clinical Epidemiology

X. **INSTITUTIONAL, DEPARTMENTAL, AND DIVISIONAL ADMINISTRATIVE RESPONSIBILITIES, COMMITTEE MEMBERSHIPS AND OTHER ACTIVITIES**

1996-2008	Director of Research, Critical Care Program, Kingston General Hospital
1997-1999	Research and Development Committee, Kingston General Hospital
1998-2001	Critical Care Medicine Residency Training Committee, KGH
1999-2001	Pastoral Care Committee, Kingston General Hospital
1999-2000	Withdrawing and Withholding Life Supports Committee, KGH
1999-2000	Ad Hoc Committee on Research Overheads and Clinical Trials Unit
2000-2009	Director of Research, General Internal Medicine Group
2004-2009	Head, Division of General Internal Medicine
2004-2010	Member, Research Committee, Department of Medicine
2004-	Director, Clinical Evaluation Research Unit

XI. **PROFESSIONAL AND SOCIETY MEMBERSHIPS**

1993-	Canadian Critical Care Trials Group
1994-	Canadian Critical Care Society
1995-	Society of Critical Care Medicine
1996-	American Society of Parenteral and Enteral Nutrition
2002-	Canadian Society for Clinical Nutrition

XII. **NATIONAL LEADERSHIP**

1996	Member of the Executive of Canadian Critical Care Trials Group -Organized End of Life Care Symposium in conjunction with the Critical Care Trials Group Annual meeting, Lake Louise, April 1999.
2001	Member of the Governing Council of Canadian Society of Clinical Nutrition and Chair of Practice Guidelines Committee. -Organized Nutrition Support Research Working Group at the American Society for Parenteral and Enteral Nutrition, Chicago, January 23, 2001. -Organized and Chaired a Multidisciplinary National Research Meeting on Nutrition Support funded by Nestle, Abbott Laboratories and Canadian Institutes of Health Research, Toronto, Oct 16-17, 2001. -Organized and Co-chaired a Multidisciplinary National Meeting to develop guidelines for nutrition support in the ICU. In conjunction with Canadian Society for Clinical Nutrition Annual Meeting, sponsored by Canadian Institutes of Health Research, Toronto, May 1-2, 2002.
2002	Member of the CIHR/Health Canada Palliative Care Research Working Group, member of the steering committee for the Canadian Palliative/End of Life Research Network (CaNPER), and Co-Chair of the Health Canada, National Strategy on End of Life Care, Research Working Group. -Organized National End of Life Care Research Meeting (New Frontiers Program) sponsored by CIHR, Kingston ON, March 27-29, 2003. -Organized and chaired CaNPER protocol development meeting, Toronto, October 28, 2003. -Organized and chaired symposium on Nutrition Support in Critical Care at 2002, 2003, and 2004 National meeting
2004	Member of the CIHR Advisory Committee for the National Research Forum for Young Investigators in Circulatory and Respiratory Health, Winnipeg, MB, May 6-9, 2004.
2004-2008	Reviewer, CIHR Clinical Trials Committee

- 2005 Invited participant to National Knowledge Translation for Palliative and End of life Care meeting, Ottawa September 14, 2005.
- 2005 Invited participant to International Palliative and End of life Care Research meeting, Birmingham, United Kingdom, October 5-6, 2005.
- 2006 Invited by Society of Critical Care Medicine to serve on planning committee for 2007 and 2008 summer conference on nutrition therapy.
- 2007 Appointed to 2008 Nutrition Conference Task Force for Society of Critical Care Medicine
- 2008 Organized and Chaired "Nutrition Therapy in ICU" Educational and Research sessions at the 2008 Canadian Society of Clinical Nutrition Annual Scientific Meeting, Toronto, May 29-31, 2008.
- 2009 Organized and Chaired 2-day multidisciplinary national research meeting on aging, critical care, and end of life care funded by CIHR, Kingston, April 2,3.
- 2009 Chair, Planning Committee, Post Conference Symposium, Society for Critical Care Medicine.  
Planning Committee for annual ASPEN Scientific Meeting.  
Invited Participant and discussant to Summit Addressing the Physician Nutrition Shortage sponsored by ASPEN, Orlando, Florida, Dec 4-6, 2009.
- 2010 Member of National Advance Care Planning Task Force sponsored by the Canadian Hospice and Palliative Care Association.
- 2011 Lead and organized a group of 44 researchers from across Canada to apply for a Network Centers of Excellence in Technology Evaluation in seriously ill Elderly Patients (TECH VALUE NET). This grant was awarded and I became the founding Scientific Director.
- 2012 Co-Chair of North American Surgical Nutrition Summit held in Phoenix Arizona, September 21-23, 2012.
- 2013 Invitee to "Deliberate Dialogue" on improving end of life care in Ontario and member of the Steering Committee, co-sponsored by Ontario Medical Association and McMaster Health Forum.
- 2013 Member of President's Working Group on improving end of life care in Ontario, sponsored by the Ontario Medical Association.
- 2013 Member of Expert Panel on end of life care sponsored by Health Quality Ontario.

**XIII. INVITED VISITING PROFESSORSHIPS**

**Total Visits: 145**

- 1) "A Systematic Review of Nutrition Support in the Critically Ill Patient: Transferring Research-Based Findings into Practical Hospital Applications." Ajax and Pickering Health Center, November 25, 1998.
- 2) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Chest Rounds, London Health Sciences Center, London, Ontario, May 26, 1999.

- 3) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Critical Care Rounds, Ottawa Hospitals, Ottawa, Ontario, May 27, 1999.
- 4) "Nutrition Support in the Critically Ill Patient: A Systematic Review of the Literature" Kentucky Chapter of American Society of Parenteral and Enteral Nutrition, Louisville, Kentucky, June 18, 1999.
- 5) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Critical Care Rounds, Ottawa Hospitals, Ottawa, Ontario, May 28, 2000.
- 6) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Critical Care Rounds, St. John Regional Hospital, St. John New Brunswick, Sept 6, 2000.
- 7) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Critical Care Rounds, Royal Alexandra Hospitals, Edmonton, Alberta, September 20, 2000.
- 8) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Critical Care Rounds, Cook County Hospital, Chicago, Illinois, January 9, 2001.
- 9) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Critical Care Rounds, Sunnybrook Hospital, Toronto, April 19, 2001.
- 10) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Critical Care Rounds, Oregon Health Sciences University, Portland, Oregon. May 17, 2001.
- 11) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Expert Panel, AstraZeneca, Wilmington, Delaware, May 23, 2001.
- 12) "Sepsis: New Insights into New Molecules, Mechanisms, Monitoring and Improved outcomes." Duke Medical Center, Durham, North Carolina, November 5, 2001.
- 13) "Enhancing Delivery of Enteral Nutrition in the Critically Ill." Grand Rounds, North York General Hospital, November 8, 2001.
- 14) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Grand Rounds, Windsor, Ontario, Nov 13, 2001.
- 15) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Grand Rounds, St John's General Hospital, St John's, Newfoundland, Nov 20, 2001.
- 16) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Grand Rounds, University Hospital, Saskatoon, Saskatchewan, Dec 7, 2001.
- 17) "Optimizing Nutrition Support in the Critically Ill/Surgical Patient" Surgical Grand Rounds, University Hospital, Saskatoon, Saskatchewan, Dec 7, 2001.

- 18) "Merging Evidence-based Medicine and Nutrition Support Practice for Critically Ill Patients: The (Mis)interpretation of Randomized Trials and Meta-analyses." Nutrition Grand Rounds, University Hospital, Saskatoon, Saskatchewan, Dec 7, 2001.
- 19) "Dying in Canada: A Quality Finish?", Chest Rounds, Royal Columbian Hospital, New Westminister, British Columbia, Jan 29, 2002.
- 20) "Dying in Canada: A Quality Finish?" Grand Medical Rounds, St. Paul's Hospital, Vancouver, British Columbia, Jan 30, 2002.
- 21) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Critical Care Rounds, University of British Columbia, Vancouver, Jan 31, 2002.
- 22) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Critical Care Rounds, Sunnybrook Hospital, Toronto, Ontario. March 28, 2002.
- 23) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Critical Care Rounds, Foothills Hospital, Calgary, Alberta, April 16, 2002.
- 24) "Dying in Canada: A Quality Finish?" Grand Rounds, Foothills Hospital, Calgary, Alberta, April 17, 2002.
- 25) "Waveform Abnormalities of aPTT in Critically Ill Hospitalized Patients: The WATTCH study. John Raddcliffe Hospital, Oxford, UK, Sept 13, 2002.
- 26) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Critical Care Rounds, University of Montreal Hospitals (CHUM), St. Luke's Hospital, October 23, 2002.
- 27) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Combined Critical Care and Respirology Rounds, Montreal Jewish General Hospital, October 24, 2002.
- 28) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Critical Care Rounds, Hopital Sacre du Couer, Montreal, Quebec, February 4, 2003.
- 29) "Nutrition Makes a Difference to Clinical Outcomes!" Critical Care Fellows Rounds. Ottawa General Hospital, Ottawa, ON, May 6, 2003.
- 30) "Ventilator-Associated Pneumonia: Optimal Management." University of Laval, Quebec City, Quebec, May 27, 2003.
- 31) "Sepsis: New Insights into Mechanisms, Molecules, Monitoring and Maximizing Outcome" Charles Lemoyne Hospital, Montreal, Quebec, May 27, 2003.
- 32) "Ventilator-Associated Pneumonia: Optimal Management." McGill University Health, Montreal, Quebec, May 29, 2003.
- 33) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Critical Care Rounds, Queen Elizabeth II Hospital, Halifax, Nova Scotia, September 5, 2003.

- 34) "Ventilator-Associated Pneumonia: Optimal Management." University of Manitoba, Winnipeg, September 23, 2003.
- 35) "Immunonutrition: Separating Fact From Fiction." New York Long Island Society of Parenteral and Enteral Nutrition, Manhasset, New York, November 3, 2003.
- 36) "Nutrition Support in the Critically Ill Patient: The way you feed them impacts their outcome". Critical Care Rounds, Hamilton General Hospital, McMaster University, Hamilton, May 3, 2004.
- 37) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Critical Care Rounds, Cite de la Sante de Laval, Laval, Quebec, May 4, 2004.
- 38) "Nutrition Support in the Critically Ill: If you feed them they will leave (alive!)" Respiratory and Critical Care Conference, University of Washington, Harborview Hospital, Seattle, Washington, July 22, 2004
- 39) "Immunonutrition: From old approaches to new paradigms". University of Louisville, Kentucky, September 9, 2004.
- 40) "Nutrition support in the critically ill: translating research evidence into practice". University of Louisville, Kentucky, September 9, 2004.
- 41) "REducing Deaths from OXidative Stress: A randomized trial of glutamine and antioxidant supplementation in critically ill patients. The REDOXS study." City Wide Critical Care Medicine Rounds, University of Montreal, Montreal, Quebec, April 13, 2005.
- 42) "REducing Deaths from OXidative Stress: A randomized trial of glutamine and antioxidant supplementation in critically ill patients. The REDOXS study." Sacre Couer Hospital, University of Montreal, Montreal, Quebec, September 8, 2005.
- 43) "REducing Deaths from OXidative Stress: A randomized trial of glutamine and antioxidant supplementation in critically ill patients. The REDOXS study." Vancouver General Hospital, University of British Columbia, October 13, 2005.
- 44) "Zap the VAP: A program of research to reduce the burden of illness related to VAP." Geisinger Health Care Systems, Dansville, Pennsylvania, January 26, 2006.
- 45) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Critical Care Rounds, University of Toronto, Toronto, Ontario, January 31, 2006.
- 46) "Ventilator Associated Pneumonia: Observations and Experiments. The Results of the Canadian VAP Study and more..." Critical Care Rounds, University Of Ottawa, Ottawa, April 11, 2006.
- 47) "Developing a Clinical Research Unit: The Clinical Evaluation Research Unit at the Kingston General Hospital." Interdepartmental Research Retreat, University of Toronto, Toronto, July 5, 2006.
- 48) "Maximizing the benefits and minimizing the risks of nutrition support in the critically ill: Evidence-based clinical practice guidelines." Sunnybrook Critical Care Rounds, Toronto, September 11, 2006.

- 49) "Maximizing the benefits and minimizing the risks of nutrition support in the critically ill: Evidence-based clinical practice guidelines." Postgraduate Medical Research Institute, Chandigarh, India, February 12, 2007.
- 50) "Effective Communication with Patients and Families." William Osler Health Science Center ICU Day: Decision Making at the End of Life. March 9, 2007.
- 51) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Critical Care Rounds, CHU University, Leige, Brussels, March 27, 2007.
- 52) "End of life care in Canada: A quality finish?" Jane Poulson Visiting Professorship, Grand Medical Rounds, Montreal General Hospital, McGill University, April 3-4, 2007.
- 53) "Educating medical residents in end of life care: Results from a recent national survey." Jane Poulson Visiting Professorship, Palliative Care Rounds, Montreal General Hospital, McGill University, April 3-4, 2007.
- 54) "Improving end of life care in the ICU." Jane Poulson Visiting Professorship, Critical Care Rounds, Montreal General Hospital, McGill University, April 3-4, 2007.
- 55) "End of life care in Canada: A quality finish?" Grand Medical Rounds, Ottawa Hospitals, University of Ottawa, June 20, 2007.
- 56) "End of life care in Canada: A quality finish?" Cardiology Rounds, South Lake Regional Hospital, New Market, Ontario, October 17, 2007.
- 57) "REducing Deaths from OXidative Stress: A randomized trial of glutamine and antioxidant supplementation in critically ill patients. The REDOXS study." Winnipeg Health Science Center, Winnipeg, Manitoba, November 5, 2007.
- 58) "REducing Deaths from OXidative Stress: A randomized trial of glutamine and antioxidant supplementation in critically ill patients. The REDOXS study." Miami Valley Medical Center, Dayton, Ohio, January 14, 2008.
- 59) "REducing Deaths from OXidative Stress: A randomized trial of glutamine and antioxidant supplementation in critically ill patients. The REDOXS study." Critical Care Rounds, L Enfant Jesus Hospital, Quebec City, Quebec, March 13, 2008.
- 60) "End of life care in Canada: A quality finish?" Grand Medical Rounds, L Enfant Jesus Hospital, Quebec City, Quebec, March 13, 2008.
- 61) "Nutrition Therapy in the ICU: The clock is ticking!" Critical Care Rounds, Sacre Couer Hospital, Montreal, Quebec, April 24, 2008.
- 62) "End of life care in Canada: A quality finish?" Critical Care Rounds, North Humberland Regional Hospital, Cobourg, Ontario, April 30, 2008.
- 63) "End of life care in Canada: A quality finish?" Grand Medical Rounds, Victoria Hospital, University of Western Ontario, London ON, June 13, 2008.
- 64) "Nutrition Therapy in the ICU: The clock is ticking!" Critical Care Rounds, Victoria Hospital, University of Western Ontario, London ON, June 13, 2008.
- 65) "End of life care in Canada: A quality finish?" Grand Medical Rounds, Royal Jubilee Hospital, Victoria, British Columbia, Oct 9, 2008.

- 66) "Nutrition Therapy in the ICU: The clock is ticking!" Critical Care Rounds, Royal Jubilee Hospital, Victoria, British Columbia, Oct 9, 2008.
- 67) "Nutrition Therapy in the ICU: The clock is ticking!" Critical Care Rounds, Nanaimo Regional Hospital, Nanaimo, British Columbia, Oct 9, 2008.
- 68) "Critical Care Nutrition Research: A programmatic approach to research." Department of Epidemiology and Preventive Medicine School of Public Health and Preventive Medicine Monash University, Melbourne Australia, November 6<sup>th</sup>, 2008.
- 69) "End of life care in Canada: A quality finish?" Critical Care Rounds, Alfred Hospital, Melbourne Australia, November 7<sup>th</sup>, 2008.
- 70) "Nutrition Therapy in the ICU" AuSPEN Regional Meeting, Melbourne Australia, November 7<sup>th</sup>, 2008.
- 71) "Pharmaconutrition: A new emerging paradigm." Zurich University Hospital, Zurich, Switzerland, May 27, 2009.
- 72) "Critical Care Nutrition as Therapy: a new emerging paradigm." Department of Human Health and Nutrition, University of Guelph, March 31, 2009.
- 73) "REducing Deaths from OXidative Stress: A randomized trial of glutamine and antioxidant supplementation in critically ill patients. The REDOXS study." Critical Care Rounds, University Hospital, London, Ontario, April 1, 2009.
- 74) "Narrowing the Gap: Improving the Practice of Nutrition in the ICU Setting- the time to act is now!" Patient Safety Day, Ottawa, Ontario, May 29, 2009.
- 75) "Nutrition Therapy in the ICU Setting." Pulmonary/Critical Care Rounds, University of Louisville, Louisville, Kentucky, June 11, 2009.
- 76) "Systematic Reviews of the Literature: Problems or Panacea?" KYSPEN Annual Educational Conference, Louisville, Kentucky, June 12, 2009.
- 77) "Nutrition Therapy in the ICU Setting." Surgical/Critical Care Rounds, Department of Surgery, Hershey Medical Center, Hershey Pennsylvania, Dec 2, 2009.
- 78) "Nutrition Therapy in the ICU Setting." Surgical/Critical Care Rounds, Department of Surgery, Thomas Jefferson University, Philadelphia Pennsylvania, Dec 3, 2009.
- 79) "REducing Deaths from OXidative Stress: A randomized trial of glutamine and antioxidant supplementation in critically ill patients. The REDOXS study." Surgical/ Critical Care Medicine Rounds, AtlanticCare Regional Medical Center, Atlantic City, New Jersey, Dec 03, 2009.
- 80) "Nutrition Therapy in the ICU Setting." Surgical/Critical Care Rounds, Department of Surgery, Hermann Hospital, Texas Medical Center, Houston, Texas, December 6, 2009.
- 81) "Improving End of Life Care in Acute Care Settings: Lessons learned from the Canadian Experience." Department of Surgery Grand Rounds, The University of Texas Medical School at Houston, Houston, Texas, July 15, 2010.
- 82) "Malnutrition in the ICU." Critical Care Rounds, CVICU, Toronto General Hospital, Toronto, Ontario, February 14, 2011.

- 83) "Malnutrition in the ICU." Critical Care Rounds, Erasme Hospital, University of Brussels, Belgium, February 28<sup>th</sup>, 2011.
- 84) "Nutrition as therapy: the time to act is now!" Uruguayan Society of Parenteral and Enteral Nutrition, Montevideo, Uruguay, May 13, 2011.
- 85) "Malnutrition in the ICU." Critical Care Rounds, Fernandes Tavora Hospital, Fortealeza, Brazil, June 20, 2011.
- 86) "Nutrition Therapy in the ICU: the time to act is now!" Critical Care Rounds, Mackay Memorial Hospital, Taipei, Taiwan, October 13<sup>th</sup>, 2011.
- 87) "Nutrition Therapy in the ICU: the time to act is now!" Critical Care Rounds, Tri-services General Hospital, Taipei, Taiwan, October 13<sup>th</sup>, 2011.
- 88) "Nutrition Therapy in the ICU: the time to act is now!" Critical Care Rounds, Chimei Hospital, Tainan, Taiwan, October 17<sup>th</sup>, 2011.
- 89) "Nutrition Therapy in the ICU: the time to act is now!" Critical Care Rounds, Kaohsiung Medical Center, Kaohsiung, Taiwan, October 17<sup>th</sup>, 2011.
- 90) "Strategies on Optimizing Delivery of EN in the ICU." Critical Care Rounds, Island Hospital, Penang, Malaysia, October 19, 2011.
- 91) "Malnutrition in the ICU." Critical Care Rounds, Island Hospital, Penang, Malaysia, October 19, 2011.
- 92) "Malnutrition in the ICU." Critical Care Rounds, University Hospital of Malaysia, Kuala Lumpur, Malaysia, October 24, 2011.
- 93) "End of life care in Canada: A quality finish?" Critical Care Rounds, Alberta Health Care Services, Calgary, Alberta, November 18, 2011.
- 94) "Advance care planning in Canada: Time to start a conversation about end of life care!" Geriatric and Palliative Care Rounds, Lethbridge Regional Hospital, April 20, 2012.
- 95) "Malnutrition in the ICU: Time for a change!" May 6, 2012, Hangzhou, China.
- 96) "Malnutrition in the ICU: Time for a change!" May 8, 2012, Wuhan, China.
- 97) "Malnutrition in the ICU: Time for a change!" May 9, 2012, Shanghai, China.
- 98) "Malnutrition in the ICU: Time for a change!" Long Island Chapter of Society of Parenteral and Enteral Nutrition, Long Island, New York, May 14, 2012.
- 99) "Malnutrition in the ICU: Time for a change!" Surgical Grand Rounds, Nassua University Medical Center, Long Island, New York, May 15, 2012.
- 100) "Living like you are dying! Supporting seniors to a quality finish." Beulah Salt Seniors Conference, University of Lethbridge, Lethbridge, Alberta, June 22 2012.
- 101) "Malnutrition in ICU". Royal Adelaide Hospital, Adelaide, Australia, Oct 29, 2012.
- 102) "Decision aid improves quality of care!" Royal Adelaide Hospital, Adelaide, Australia, Oct 29, 2002.

- 103) "Dying in Canada: A quality finish?" Royal Adelaide Hospital, Adelaide, Australia, Oct 30, 2012.
- 104) "Advance care planning in Canada: Time to start a conversation about end of life care!" Royal Adelaide Hospital, Adelaide, Australia, Oct 30, 2012.
- 105) "Decision aid improves quality of care!" Royal Adelaide Hospital, Adelaide, Australia, Oct 31, 2012.
- 106) "Technology evaluation in the seriously ill elderly". Royal Adelaide Hospital, Adelaide, Australia, Nov 1, 2012.
- 107) "ACCEPT Study". Royal Adelaide Hospital, Adelaide, Australia, Nov 1, 2012.
- 108) "Optimising nutrition delivery in the critically ill." Royal Adelaide Hospital, Adelaide, Australia, Nov 2, 2012.
- 109) "Advanced Care Planning". Royal Adelaide Hospital, Adelaide, Australia, Nov 5, 2012.
- 110) "Optimising nutrition delivery in the critically ill." Royal Adelaide Hospital, Adelaide, Australia, Nov 7, 2012.
- 111) "Malnutrition in ICU: Time for a change!" Royal Adelaide Hospital, Adelaide, Australia, Nov 8, 2012.
- 112) "ACCEPT Study". Royal Adelaide Hospital, Adelaide, Australia, Nov 8, 2012.
- 113) "A Multicenter, Cluster Randomized Trial of Enhanced Protein-Energy Provision via the Enteral Route Feeding Protocol in Critically Ill Patients: The PEP uP Protocol". Hopital du Sacre-Coeur de Montreal, Critical Care Rounds, Montreal, QC, Feb 14, 2013.
- 114) "Advanced Care Planning: From scientific evidence to implementation. Centre Hospitalier Universitaire de Sherbrooke, Sherbrooke, QC, Grand Medical Rounds, Feb 15, 2013.
- 115) "Advance Care Planning in Canada: Time to start the conversation about end of life care. University of Ottawa. City Wide Ground Rounds (Dept of Med), Feb 26, 2013.
- 116) "A Multicenter, Cluster Randomized Trial of Enhanced Protein-Energy Provision via the Enteral Route Feeding Protocol in Critically Ill Patients: The PEP uP Protocol". Critical Care Rounds, Sharp Grossmount Hospital, La Mesa, California, April 28, 2013.
- 117) "Reducing death due to oxidative stress (REDOX Study): glutamine and antioxidants supplementation in the critically ill". Tan Tock Seng Hospital, Singapore, July 14, 2013.
- 118) "(C)Iatrogenic malnutrition in the ICU". Singapore General Hospital, Singapore, July 15, 2013.
- 119) "Optimizing nutrition delivery in the critically ill". 2nd Singapore-ANZICS Intensive Care Forum. Koo Teck Puat Hospital, Singapore, July 15, 2013.
- 120) "Role of pharmaconutrition in ICU in relation to reducing death due to oxidative stress. Singapore Nutrition Support Team Meeting Sheraton Hotel, July 15, 2013.
- 121) "Update of the 2013 Canadian Critical Care Nutrition Guidelines – the facts & evidence". Singapore Nutrition Support Team Meeting Sheraton Hotel Singapore, July 15, 2013.
- 122) "Optimizing nutrition delivery in the critically ill & iatrogenic. Malnutrition in the ICU". National University Hospital, Singapore, July 16, 2013.

- 123) "Optimizing nutrition delivery in the critically ill". Jurong Hospital, Singapore, July 16, 2013.
- 124) "Optimizing nutrition delivery in the critically ill". Singapore General Hospital, Singapore, July 15, 2013.
- 125) "Optimizing nutrition delivery in the critically ill". Chenggi General Hospital, Singapore, July 17, 2013.
- 126) "PEP uP protocol: increased protein and energy delivery". Critical Care Rounds, Hamilton General Hospital, September 10, 2013.
- 127) "Talk now for ever hold your peace: the importance of talking about care at the end of life". McMaster Health Forum, Hamilton, ON, September 10, 2013.
- 128) "Talk now for ever hold your peace: the importance of talking about care at the end of life." Pulmonary/Critical Care Rounds, University of Pennsylvania, Philadelphia, USA, November 20, 2013.
- 129) "Iatrogenic Malnutrition in the Critically Ill: Time for a change!" Surgical/Critical Care Rounds, University of Pennsylvania, Philadelphia, USA, November 20, 2013.
- 130) "Just because you can count it doesn't mean it is the right thing to count!" Department of Clinical Epidemiology Rounds, University of Pennsylvania, Philadelphia, USA, November 21, 2013.
- 131) "Dying in Canada: A quality finish?" Surgical Grand Rounds, Department of Surgery, Hamilton, ON, November 27, 2013.
- 132) "Talk now for ever hold your peace: the importance of talking about care at the end of life." William Sibbald Visiting Professorship, Grand Medical Rounds, Sunnybrook Hospital, Toronto, ON, November 27, 2013.
- 133) "Improving Communication and Decision-making at the End of Life." William Sibbald Visiting Professorship, Grand Medical Rounds, University Hospital, London Ontario, November 28, 2013.
- 134) "Talk now for ever hold your peace: the importance of talking about care at the end of life." William Sibbald Visiting Professorship, Critical Care Rounds, Victoria Campus, University Hospital, London, ON, November 29, 2013.
- 135) "Improving Communication and Decision-making at the End of Life." William Sibbald Visiting Professorship, Grand Medical Rounds, Victoria Campus, University Hospital, London, ON, November 29, 2013.
- 136) "Novel Methods to Diagnose and Treat Malnutrition in the ICU", Decatur Medical Center, Atlanta Georgia Jan 21, 2014.
- 137) "Novel Methods to Diagnose and Treat Malnutrition in the ICU", Ehrلمان Medical Center, Chattanooga, Tennessee, Jan 22, 2014.
- 138) "Underfeeding in the ICU and Different Means to Overcome This" 2nd Annual Cleveland Clinic Center for Human Nutrition Spring Symposium, April 11, 2014
- 139) "Iatrogenic Malnutrition in the ICU: Time for a Change!" Hospital Nutritional Support Symposium, Buenos Aires, Argentina, April 23, 2014.

- 140) "Optimizing Nutrition Delivery in the ICU" Hospital Nutritional Support Symposium, Buenos Aires, Argentina, April 23, 2014.
- 141) "Glutamine: What are the Recommendations?" Hospital Nutritional Support Symposium, Buenos Aires, Argentina, April 23, 2014.
- 142) "Underfeeding Critically Ill 'High-risk' Patients Is Harmful!" Critical Care Rounds, Rabin Medical Center, Tel Aviv, Israel, November 30, 2015.
- 143) "Current Controversies in Critical Care Nutrition." Critical Care Rounds, CTO (Orthopedic and Trauma Center), Turin, Italy, March 10, 2016.
- 144) "To Die Well, You Need to Plan Well: The importance of end of life communication and decision-making." Critical Care Rounds, Medizinische Universität Graz, Graz, Austria, March 14, 2016.
- 145) "Current Controversies in Critical Care Nutrition." Critical Care Rounds, Military Medical Academy, Belgrade, Serbia, March 15, 2016.

**XIV. PRESENTATIONS AT NATIONAL MEETINGS**

**Total Presentations: 48**

- 1) "The Effect of Acidified Enteral Feeds on Colonization and Pneumonia in the Critically Ill Patient". Canadian Critical Care Trials Group Meeting, Montreal, Quebec, April 1993.
- 2) "Introduction to Evidence-Based Medicine" and "How to Use an Economic Evaluation". Bayer National Sales Representative Meeting, Toronto, May 7, 1998.
- 3) "Patient participation in health care decisions near the end of life: A research program." Tranmer, J & Heyland, D. The Canadian Association of Medical Colleges (CAME), Ottawa, Ontario. May 1998.
- 4) "The Effect of Antimicrobial Tube Feeds on Nosocomial Infections in the Critically Ill Patient". Canadian Critical Care Trials Group Meeting, Toronto, Ontario, September, 1998.
- 5) "A Randomized Trial of Empiric Broad Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia". Canadian Critical Care Trials Group Meeting, Toronto, Ontario, September, 1998.
- 6) "Outcomes Research: Linking Clinical Practice with Research Evidence." Combining Evidence-Based Health Care and Utilization Review, Brampton, Ontario, Jan 13, 1999.
- 7) "Dying in Canada: Is it an Institutionalized, Technologically Supported Experience? Canadian Critical Care Trials Group End-of-Life Symposium, Lake Louise, Alberta, April 10, 1999.
- 8) "End of Life Decision Making". Critical Care Society Resident's Half-Day Symposium on End of Life Issues. Royal College of Physicians and Surgeons Annual Scientific Meeting. Montreal, September 1999.
- 9) "Nutrition Support in the Critically Ill Patient: A Systematic Review of the Literature" Critical Care Research Network 2nd Annual Meeting. Mississauga, Ontario; Jan 20, 2000.
- 10) "Nutrition Support in the Critically Ill Patient: Current Topics." Postgraduate Course, Canadian Critical Care Society and Canadian Association of General Surgeons, Edmonton, September 21, 2000.

- 11) "Ventilator-Associated Pneumonia: Observations and Experiments." Royal College of Physicians and Surgeons of Canada. Edmonton, September 23, 2000.
- 12) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Astrazeneca National Sales Meeting, Mississauga, Ontario, April 25, 2001.
- 13) "Sepsis: New Insights into Mechanisms, Treatments, and Monitoring" Organon Technika, Durham, North Carolina, May 25, 2001.
- 14) "Prevention of Ventilator-associated Pneumonia: Current Practice in Canada." Wyeth-Ayerst Consultants Forum. Mississauga, Ontario, June 16, 2001.
- 15) "Tazocin: Clinical Review" Wyeth-Ayerst Consultants Forum. Mississauga, Ontario, June 16, 2001.
- 16) "Nutrition Support Research in ICU: A multidisciplinary, national research plan." Multidisciplinary National Research Meeting on Nutrition Support funded by Nestle, Abbott Laboratories and Canadian Institutes of Health Research, Toronto, Oct 16-17, 2001.
- 17) "Merits and Limitations of Meta-analyses in Nutrition Support" Western Canada Nutrition Day, Edmonton, Alberta, Oct 26, 2001.
- 18) "Nutrition Support: Best Care for the Critically Ill" Canadian Society for Clinical Nutrition Annual Meeting, Toronto, Ontario, May 4, 2002.
- 19) "Quality of Life in Survivors of Critical Illness: Moving Beyond Survival" Critical Care Research Network Annual Meeting, Ingersoll, Ontario, May 9, 2002.
- 20) "Family Satisfaction with Care in the Critical Care Setting" Critical Care Research Network Annual Meeting, Ingersoll, Ontario, May 9, 2002.
- 21) "Dying in ICUs in Canada: A Quality Finish?" Kingston- Ottawa Critical Care Symposium, Ottawa, May 24, 2002.
- 22) "Feeding in the ICU: Myths and Misconceptions. What is the Evidence?" Canadian Association of Critical Care Nurses, Niagara Falls, Ontario, October 2, 2002.
- 23) "Best Practice in ICU Nutrition Support" Hamilton Health Sciences 6th Annual Nutrition Workshop, Hamilton, Ontario, November 22, 2002.
- 24) "Towards Building a National Research Center of Excellence in End of Life/Palliative Care" National Coordinating Council, National Strategy on EOL/Palliative Care, Ottawa, Jan 22-24, 2003.
- 25) "Nutrition Support in the Critically Ill Patient" UBC Whistler Critical Care Conference, Whistler BC, April 12, 2003.
- 26) "Optimal Management of Ventilator-Associated Pneumonia" UBC Whistler Critical Care Conference, Whistler BC, April 12, 2003.
- 27) "Ventilator-Associated Pneumonia: Optimal Management" 2nd Annual Atlantic Critical Care Conference, Halifax, Nova Scotia, September 5-7, 2003.
- 28) "Nutrition Support in the Critically Ill Patient: Achieving Best Practice." 2nd Annual Atlantic Critical Care Conference, Halifax, Nova Scotia, September 5-7, 2003.

- 29) "Improving the Quality of End of Life Care in Canada: Understanding the Perspectives of Seriously Ill Hospitalized Patients and Their Caregivers." CaNPER Protocol Development Meeting, October 28, 2003.
- 30) "Ventilator-Associated Pneumonia: Getting it right the first time!" Academy of Infection Meeting sponsored by AstraZeneca, Boston, Massachusetts, November 21, 2003.
- 31) "REducing Deaths from OXidative Stress: A randomized trial of glutamine and antioxidant supplementation in critically ill patients. The REDOXS study." Canadian Critical Care Trials Group Annual Scientific Meeting, Lake Louise, Jan 20th, 2004.
- 32) "End of Life Care in Canada: A Quality Finish?" CIHR, National Research Forum for Young Investigators. Winnipeg, MB, May 8, 2004.
- 33) "ZAP the VAP", VAP Investigators Meeting, Scottsdale, Arizona, Jan 13-14, 2005.
- 34) "A Randomized Trial of Invasive Diagnostic Techniques and Empiric Broad-Spectrum Antibiotics in the Setting of Ventilator-Associated Pneumonia: Preliminary Results." Quebec Society of Intensive Care Medicine Annual Meeting, Montreal Quebec, May 5, 2005.
- 35) "REducing Deaths from OXidative Stress: The REDOXS Study. A randomized trial of glutamine and antioxidant supplementation in critically ill patients. Canadian Critical Care Trials Group Annual Scientific Meeting, Lake Louise, Jan 16-19, 2006.
- 36) "End of Life Care in the ICU: Patient Perspectives." Alberta Intensive Care Society Annual Meeting. Lake Louise, Alberta, January 20, 2006.
- 37) "Dying in Canada: A quality finish?" Last Days of Living: Hope, Comfort, and Compassion at the End of Life, Health Care Conferences Canada, Inc. Toronto, ON, April 11, 2008.
- 38) "Palliative/End of Life Care in the ICU." Canadian Society for Internal Medicine, Annual Scientific Meeting, Montreal, Quebec, October 15-18, 2008.
- 39) "How to build an academic clinical research program." Canadian Critical Care Trials Group Annual Resident's Research Day, Picton, Ontario, June 15, 2009.
- 40) "Nutrition in Sepsis: What is the evidence." Sepsis Update, University of Western Ontario, London, Ontario, September 15th, 2010.
- 41) "Nutrition Therapy in the ICU" Canadian Nutrition Society Annual Meeting, Guelph, Ontario, June 2-4, 2011.
- 42) "Advance care planning in Canada: Time to start a conversation about end of life care!" CARENET Annual Research meeting, Calgary, Alberta, April 16, 2012.
- 43) "Iatrogenic Malnutrition in the ICU: Time for a change! Canadian Institute of Nutrition Excellence, Calgary, Alberta, April 19, 2012.
- 44) "Dying in Canada: A quality finish?" Plenary Lecture, Canadian Academy of Health Sciences National Meeting, Ottawa, September 20, 2012.
- 45) "It's time to get the end of life conversation going in Canada! 11th Congres Annuel, Societe des intensivistes du Quebec, Feb 16, 2013.

- 46) "Advance Care Planning in Canada. Time to start the conversation about end of life care!" Ontario Medical Association Annual General Council Meeting, Hamilton, Ontario, May 3, 2013.
- 47) "Optimizing nutrition delivery in the critically ill patient". Nestle Critical Care Nutrition Conference, Burlington, Ontario, September 18, 2013.
- 48) "Care at the End Of Life: Improving Communication and Decision Making" WRHA Critical Care Program: Outcomes Improvement Symposium, Winnipeg, Manitoba, May 21, 2015.

**XV. PRESENTATIONS AT INTERNATIONAL MEETINGS**

**Total Presentations: 314**

- 1) "The Effect of Cisapride on Gastric Emptying in Critically Ill Patients." Digestive Diseases Week, San Francisco, California, May 1996.
- 2) "The Frequency and Methodological Rigor of Quality of Life Assessments in the Critical Care Literature." The 7th World Congress of Intensive & Critical Care Medicine, Ottawa, Ontario, July 1997.
- 3) The Third Annual Ross Enteral Device Conference, Winston-Salem, NC, September 19-21, 1997. Chaired conference and presented "Making Inferences From Scientific Research" and "The Effect of Acidified Enteral Feeds on Contamination of the Enteral Feeding Delivery System and Subsequent Colonization and Infection in Critically Ill Patients."
- 4) "Nutrition Support in the Critically Ill Patient: A Systematic Review of the Literature. 1997 Toronto Critical Care Medicine Symposium, Toronto, Canada, November, 1997.
- 5) "The Effect of Acidified Enteral Feeds on Gastric Colonization and Pneumonia in Critically Ill Patients: Results of a Multicenter Randomized Trial." American Thoracic Society/American Lung Association Annual Meeting, Chicago, April, 1998.
- 6) "Gastrointestinal Motility, Enteral Nutrition and Infection in Critical Illness". Expert's Panel sponsored by Janssen Pharmaceutica, Boston, August 26, 1998.
- 7) "Morbidity and Mortality Criteria: Are They Relevant to Establish the Efficacy of Nutritional Interventions?" European Society of Parenteral and Enteral Nutrition, Nice, France, September, 1998.
- 8) "Nutrition Support in the Critically Ill Patient: A Systematic Review of the Literature" European Society of Parenteral and Enteral Nutrition, Nice, France, September, 1998.
- 9) "Ventilator-Associated Pneumonia IS a Clinically Important Entity!" Pro/Con Debate. Toronto International Critical Care Symposium, Toronto, Canada, Oct 31, 1998.
- 10) "Clinical and Economic Consequences of ARDS: An international, multi-center pharmacoeconomic and quality of life evaluation." Byk-Gulden Investigator's Meeting, Toronto, Ontario, Oct 4-5, 1999.
- 11) "Empiric, Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia". Toronto Critical Care Medicine Symposium, Toronto, Canada, Oct 30, 1999.
- 12) "Parenteral Nutrition in the Critically Ill Patient: More Harm than Good?" British Association of American Society of Parenteral and Enteral Nutrition, Bournemouth, UK, December 8-9, 1999.

- 13) "Immunonutrition in the Critically Ill Patient: A Meta-analysis" and "The Effect of Acidified Enteral Feeds on Gastric Colonization in the Critically Ill Patient" Expert's Meeting, Novartis, Minnesota; Jan 21, 2000.
- 14) "Supplemental Parenteral Nutrition in the Critically Ill Patient: Benefit or Harm?" 29th Educational & Scientific Symposium, Society of Critical Care Medicine, Orlando Florida, February 11-15, 2000.
- 15) "Merging Evidence-based Medicine and Nutrition Support Practice for Critically Ill Patients: The (Mis)interpretation of Randomized Trials and Meta-analyses." Evidence-Based Medicine Post-graduate course, 29th Educational & Scientific Symposium, Society of Critical Care Medicine, Orlando Florida, February 11-15, 2000.
- 16) "What are the Results? Using Systematic Reviews to Inform Decision Makers." Round Table Conference "Evaluating Critical Care: Using Health Services Research to Improve Quality". Brussels, Belgium, March 19-21, 2000.
- 17) "Supplemental Parenteral Nutrition: More Harm than Good? 20th International Symposium on Intensive Care and Emergency Medicine. Brussels, Belgium, March 21-24, 2000.
- 18) "End of Life Care in the ICU: Round Table Discussion." 20th International Symposium on Intensive Care and Emergency Medicine. Brussels, Belgium, March 21-24, 2000.
- 19) "Empiric Broad Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator- Associated Pneumonia." 20th International Symposium on Intensive Care and Emergency Medicine. Brussels, Belgium, March 21-24, 2000.
- 20) "Nutrition Support in the Critical Care Setting: An Update" 20th International Symposium on Intensive Care and Emergency Medicine. Brussels, Belgium, March 21-24, 2000.
- 21) "Immunonutrition in the Critically Ill: Some Evidence-based Medicine Considerations" Immune-enhancing Diet Consensus Conference. San Diego, California, USA. May 25-26.
- 22) "In Search of the Magic Nutraceutical: Problems with Current Approaches" Glutamine Symposium, Bermuda, Oct 2-4, 2000.
- 23) "The Impossible Nasojejunal tube: Practical Procedures" The 25th Australian and New Zealand Annual Scientific Meeting on Intensive Care. Canberra, Australia, Oct 19-22, 2000.
- 24) "What We Have Learned From Multi-center Clinical Trials: The Experience of the Canadian Critical Care Trials Group" The 25th Australian and New Zealand Annual Scientific Meeting on Intensive Care. Canberra, Australia, Oct 19-22, 2000.
- 25) "Optimizing the Delivery of Enteral Nutrition in the Critically Ill" The Australasian Parenteral and Enteral Society Annual Scientific Meeting. Lorne, Australia, Oct 26-29, 2000.
- 26) "A Systematic Review of Nutrition Support in the Critically Ill" The Australasian Parenteral and Enteral Society Annual Scientific Meeting. Lorne, Australia, Oct 26-29, 2000.
- 27) "Nutrition Support in the Critically Ill Patient: Current Topics" Chicago Thoracic Society Annual Meeting, Chicago, Illinois, January 9, 2001.
- 28) "Does Nutrition Support Influence Patient Outcome" American Society of Parenteral and Enteral Nutrition, Chicago, Illinois, January 20, 2001.

- 29) "Why We Need Multicenter Randomized Clinical Trials: The Experience of the Canadian Critical Care Trials Group." American Society of Parenteral and Enteral Nutrition, Chicago, Illinois, January 23, 2001
- 30) "Effect of Glutamine in Critical Illness: A Systematic Review." American Society of Parenteral and Enteral Nutrition, Chicago, Illinois, January 23, 2001.
- 31) "Clinical Research Design: Critical Care- Randomized Trials and Meta-analyses" Society of Critical Care Medicine 30th International Educational and Scientific Symposium, San Francisco, February 11-13, 2001.
- 32) "Measuring Outcomes in Critical Care: Quality of Life" Society of Critical Care Medicine 30th International Educational and Scientific Symposium, San Francisco, February 11-13, 2001.
- 33) "Immunonutrition in the Critically Ill: More Harm than Good?" Society of Critical Care Medicine 30th International Educational and Scientific Symposium, San Francisco, February 11-13, 2001.
- 34) "Systematic Reviews as a Research Tool: Strategies for the Underfunded" American Thoracic Society Meeting, Postgraduate Course, San Francisco, May 19, 2001.
- 35) "Merits and Limitations of Meta-analysis Illustrated by Examples from Nutrition Support." European Society of Parenteral and Enteral Nutrition, Munich, Germany, Sept 8-12,2001.
- 36) "Immunonutrition: What is the Evidence?" European Society of Parenteral and Enteral Nutrition, Munich, Germany, Sept 8-12,2001.
- 37) "Immunonutrition: Pro-Con Debate" Toronto International Critical Care Symposium, Toronto, Sept 18-21, 2001.
- 38) "Diagnosis of Ventilator-Associated Pneumonia" Toronto International Critical Care Symposium, Toronto, Sept 18-21, 2001.
- 39) "Sepsis: New Insights into New Molecules, Mechanisms, Monitoring and Improved outcomes." Southeast Association of Clinical Microbiologists, Myrtle Beach, South Carolina, November 7, 2001.
- 40) "Does Nutrition Support Influence Outcome? 26th ASPEN Clinical Congress, Nutrition for the Practicing Clinician, San Diego, February 22, 2002.
- 41) "Immune Enhancing Formulas: Beneficial or Harmful? 26th ASPEN Clinical Congress, Postgraduate Course, San Diego, February 23, 2002.
- 42) "Should Immunonutrition be Routine in the Critically Ill?" 26th ASPEN Clinical Congress, San Diego, February 24, 2002.
- 43) "Optimizing the Benefits and Minimizing the Risks of Enteral Nutrition in the Critically Ill: Role of Small Bowel Feeding" Summit on Aspiration Pneumonia, In conjunction with Digestive Diseases Week, San Francisco, May 18,19, 2002.
- 44) "Should Immunonutrition be Routine in the Critically Ill?" Digestive Diseases Week, San Francisco, May 18,19, 2002.
- 45) "Alternative Methods for Diagnosing Sepsis" American Society of Microbiology Annual Meeting, Salt Lake City, May 21, 2002.

- 46) "Waveform Analysis of the aPTT in Critically Ill Hospitalized Patients with Sepsis: The WaTTCH study." International Society on Thrombosis and Haemostasis, Boston, July 18, 2002.
- 47) Sepsis: New Insights into Molecules, Mechanisms, Monitoring, and Maximizing Outcomes." Biomerieux, Marcy, France, September 20, 2002.
- 48) "Waveform Abnormalities of aPTT in Critically Ill Hospitalized Patients: The WATTCH study." Biomerieux, Marcy, France, September 20, 2002.
- 49) "Empiric Antibiotics are Needed. Pro/Con Debate." Toronto Critical Care Medicine Symposium, Toronto, ON, November 1, 2002.
- 50) "Quality End of Life Care: The importance of communication." Toronto Critical Care Medicine Symposium, Toronto, ON, November 1, 2002.
- 51) "Which Patients Benefit from Immunonutrition?" Nutrition Week, San Antonio, Texas, January 18-22, 2003.
- 52) "Minimizing the Risks of Enteral Nutrition in the Critically Ill: Effect of Small Bowel Feedings." Nutrition Week, San Antonio, Texas, January 18-22, 2003.
- 53) "Achieving Best Practice: Nutrition Support in the ICU" Canadian Night, Ross- sponsored event at Nutrition Week, San Antonio, Texas, January 18-22, 2003.
- 54) "Diagnosis of Ventilator-Associated Pneumonia" 32nd Critical Care Congress, Society of Critical Care Medicine, San Antonio, Texas, Jan 28-Feb 3, 2003.
- 55) "Dying in Canada: A Quality Finish?" 32nd Critical Care Congress, Society of Critical Care Medicine, San Antonio, Texas, Jan 28-Feb 3, 2003.
- 56) "Immunonutrition: Pro/Con Debate" 32nd Critical Care Congress, Society of Critical Care Medicine, San Antonio, Texas, Jan 28-Feb 3, 2003.
- 57) "Nutrition Support in the Critically Ill" American Thoracic Society 2003 State of the Art Review Course, San Juan, Puerto Rico, February 27-March 2, 2003.
- 58) "Immunonutrition: What is the evidence?" 27th Congress of the Scandinavian Society of Anesthesiology and Intensive Care Medicine, Helsinki, Finland, August 16-20, 2003.
- 59) "Dying in Canada: A Quality Finish." Toronto Critical Care Medicine Symposium, Toronto, Ontario, Oct 29-November 1, 2003.
- 60) "Diagnosis of Ventilator-Associated Pneumonia: Impact on Outcome" Toronto Critical Care Medicine Symposium, Toronto, Ontario, Oct 29-November 1, 2003.
- 61) "Dissemination of the Canadian Clinical Practice Guidelines for Nutrition Support for Mechanically Ventilated Patients." Toronto Critical Care Medicine Symposium, Toronto, Ontario, Oct 29-November 1, 2003.
- 62) "Background and Scientific Rationale for Long-term follow up study: VALID study." Investigator's meeting, Altana Pharmaceuticals, Miami Florida January 17, 2004.
- 63) "Nutrition Support in the Critically Ill Patient: "Narrowing the GAP!" Experts Roundtable sponsored by Nutricia, Inc. Frankfurt, Germany, Jan 23, 2004.

- 64) "Canadian Clinical Practice Guidelines for Nutrition Support in the Critically Ill Patient." Nutrition Week. Las Vegas, Nevada, February 9-12, 2004.
- 65) "Enteral Nutrition vs Parenteral Nutrition: Nutrition for the Practicing Clinician." Nutrition Week. Las Vegas, Nevada, February 9-12, 2004.
- 66) "Role of Immunonutrition in ICU". Society of Critical Care Medicine. 33rd Critical Care Congress. Orlando, Florida, February 19-25, 2004.
- 67) "Immunonutrition – where have we come from and where are we going?" 6th World Congress on Trauma, Shock, Inflammation and Sepsis. Munich, Germany, March 2-6, 2004.
- 68) "Optimal regimen of perioperative nutrition – What makes sense?" 6th World Congress on Trauma, Shock, Inflammation and Sepsis. Munich, Germany, March 2-6, 2004.
- 69) "REducing Deaths from OXidative Stress: A randomized trial of glutamine and antioxidant supplementation in critically ill patients. The REDOXS study." Canadian Society for Clinical Nutrition 3rd Annual Scientific Meeting. Toronto, Ontario, April 22-24, 2004.
- 70) "Nutrition support in the critically ill: evidence-based clinical practice guidelines". European Society of Intensive Care Medicine, 17th Annual Congress, Berlin, Germany, 10-13 October 2004.
- 71) "Use of total parenteral nutrition (TPN)". European Society of Intensive Care Medicine, 17th Annual Congress, Berlin, Germany, 10-13 October 2004.
- 72) "Ventilator-associated pneumonia: Optimal management." Critical Care Medicine Symposium, Toronto, 21-23 October 2004.
- 73) "The patient's and family's perspectives on end of life care in Canada". Critical Care Medicine Symposium, Toronto, 21-23 October 2004.
- 74) "Reducing Deaths from Oxidative Stress: The REDOXS study". Critical Care Medicine Symposium, Toronto, 21-23 October 2004.
- 75) "Nutrition support in the critically ill: Evidence-based clinical practice guidelines". Critical Care Medicine Symposium, Toronto, 21-23 October 2004.
- 76) "End of Life Care in Canada: A Quality Finish?" Society of Critical Care Medicine Annual Scientific Congress, Phoenix, Arizona. Jan 15-19, 2005.
- 77) "Immunonutrition: The Canadian Clinical Practice Guidelines for Nutrition Support" Society of Critical Care Medicine Annual Scientific Congress, Phoenix, Arizona. Jan 15-19, 2005.
- 78) "Immunonutrition: From old approaches to new paradigms" Japanese Society for Parenteral and Enteral Nutrition Congress, Japan, February 10-20, 2005.
- 79) "Sepsis markers. Modified APTT". 25th International Symposium on Intensive Care and Emergency Medicine. Brussels, Belgium, March 21-25, 2005.
- 80) "Optimal management of VAP". 25th International Symposium on Intensive Care and Emergency Medicine. Brussels, Belgium, March 21-25, 2005.
- 81) "End of life care". 25th International Symposium on Intensive Care and Emergency Medicine. Brussels, Belgium, March 21-25, 2005.

- 82) "Optimal nutritional support". 25th International Symposium on Intensive Care and Emergency Medicine. Brussels, Belgium, March 21-25, 2005.
- 83) "Nutrition and Infection: What is the evidence?" American Thoracic Society Annual Scientific Meeting, San Diego, May 21-25, 2005.
- 84) "Patient's Perceptions at the End of Life" Resident's Day, Toronto Critical Care Medicine Symposium, Oct 25, 2005.
- 85) "A Randomized Trial of Invasive Diagnostic Techniques and Empiric Broad-Spectrum Antibiotics in the Setting of Ventilator-Associated Pneumonia." Toronto Critical Care Medicine Symposium, Oct 26-28, 2005.
- 86) "Preventing oxidant injury". Toronto Critical Care Medicine Symposium, Oct 26-28, 2005.
- 87) "REducing Deaths from OXidative Stress: A randomized trial of glutamine and antioxidant supplementation in critically ill patients. The REDOXS study." Toronto Critical Care Medicine Symposium, Oct 26-28, 2005.
- 88) Biomarkers in sepsis: Modified APTT. International Sepsis Forum Colloquium on Biomarkers in Sepsis, Mississauga, Ontario, October 28-30, 2005.
- 89) "Canadian Clinical Practice Guidelines for Nutrition Support in the Mechanically Ventilated, Critically Ill Patient." 1st Slovenian Conference on Clinical Nutrition and Metabolism. Maribor, Slovenia, November 11-12, 2005.
- 90) "Pharmaconutrition: A New Emerging Paradigm." Austrian Intensive Care Society, Salzburg Austria, November 14, 2005.
- 91) "Pharmconutrition: Improving the morbidity and mortality of critically ill patients." Groshaber Clinic, Munich University, Munich Germany, November 15, 2005.
- 92) "Immunonutrition: From old approaches to new paradigms" British Association of Parenteral and Enteral Nutrition Annual Scientific Meeting, Telford, UK, November 16-17, 2005.
- 93) "Canadian Guidelines for Nutrition Support in the Mechanically Ventilated Critically Ill Patient" beFRANC Symposium. Valkenburg, the Netherlands, December 8-9, 2005.
- 94) "Nutrition in the ICU" The 2006 ATS State of the Art Course in Pulmonary and Critical Care Medicine. Chicago, March 2, 2006.
- 95) "Is it worthwhile to sample the lower respiratory tract to diagnosis VAP? Pro/Con Debate" The Atlanta Summit on VAP, Atlanta Georgia, July 7,8, 2006.
- 96) "Pharmaconutrition: A new emerging paradigm." European Society of Intensive Care Medicine Annual Meeting, Barcelona, Spain, September 24-27, 2006.
- 97) "A Randomized Trial of Empiric Antibiotics and Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." European Society of Intensive Care Medicine Annual Meeting, Barcelona, Spain, September 24-27, 2006.
- 98) "Pharmaconutrition: A new emerging paradigm." European Society of Enteral and Parenteral Nutrition Annual Meeting, Istanbul, Turkey, October 18-22, 2006.
- 99) "Pharmaconutrients: Selected nutrients and their influence on patient outcomes" ACCP Chest Annual Scientific Meeting, Salt Lake City Utah, October 19-25, 2006.

- 100) "VAP: The value of invasive diagnostic techniques." Discovering the New World of Hospital Infection. Lisbon, Portugal, Nov 11, 2006.
- 101) "Ventilator-Associated Pneumonia: Optimal Management." 13th Annual Scientific Conference of the Indian Society of Critical Care Medicine, Cochin, India, February 7-11, 2007.
- 102) "Pharmaconutrition: A New Emerging Paradigm." Keynote Address. 13th Annual Scientific Conference of the Indian Society of Critical Care Medicine, Cochin, India, February 7-11, 2007.
- 103) "How Do I Implement Change in my ICU? A Case Study of Nutrition Therapy." 13th Annual Scientific Conference of the Indian Society of Critical Care Medicine, Cochin, India, February 7-11, 2007.
- 104) "The Canadian Critical Care Trials Group: A Case Study in Research Networks." 13th Annual Scientific Conference of the Indian Society of Critical Care Medicine, Cochin, India, February 7-11, 2007.
- 105) "EN vs PN: Pro Con." 13th Annual Scientific Conference of the Indian Society of Critical Care Medicine, Cochin, India, February 7-11, 2007.
- 106) "Pharmaconutrition: A New Emerging Paradigm." Plenary Address. 36th Annual Critical Care Congress, Society of Critical Care Medicine, Orlando Florida, February 17-21, 2007.
- 107) "Hypocaloric nutrition in the critically ill." 27th International Symposium on Intensive Care and Emergency Medicine. Brussels, Belgium, March 27-30, 2007.
- 108) "Arginine and glutamine." 27th International Symposium on Intensive Care and Emergency Medicine. Brussels, Belgium, March 27-30, 2007.
- 109) "Antioxidants: What is the evidence of benefit?" 27th International Symposium on Intensive Care and Emergency Medicine. Brussels, Belgium, March 27-30, 2007.
- 110) "Sepsis markers." 27th International Symposium on Intensive Care and Emergency Medicine. Brussels, Belgium, March 27-30, 2007.
- 111) "Intensive insulin therapy. Pro/Con Debate (CON)." 27th International Symposium on Intensive Care and Emergency Medicine. Brussels, Belgium, March 27-30, 2007.
- 112) "We do not need protected sampling." 27th International Symposium on Intensive Care and Emergency Medicine. Brussels, Belgium, March 27-30, 2007.
- 113) "Informing the patient." 27th International Symposium on Intensive Care and Emergency Medicine. Brussels, Belgium, March 27-30, 2007.
- 114) "Pharmaconutrition: A New Emerging Paradigm." Plenary Address. 2nd Chilean Critical Care Conference, Santiago, Chile, April 26-28, 2007.
- 115) "Maximizing the Benefits and Minimizing the Risk of Nutrition in the Critically Ill." 2nd Chilean Critical Care Conference, Santiago, Chile, April 26-28, 2007.
- 116) "Optimal Management of VAP." 2nd Chilean Critical Care Conference, Santiago, Chile, April 26-28, 2007.
- 117) "Glutamine: results of meta-analyses and other studies." Fresenius Kabi Advanced Nutrition Course, Bad Homburg, Germany, May 22-25, 2007.

- 118) "Update in the management of serious infection." Pathways 2007, Bangalore, India, May 27-28, 2007.
- 119) "Permissive underfeeding in the critically ill patient: an "over-rated" approach." 6th Summer Conference in Intensive Care Medicine, Toronto, Canada, June 14-16, 2007.
- 120) "Guidelines development process". 6th Summer Conference in Intensive Care Medicine, Toronto, Canada, June 14-16, 2007.
- 121) "Critical care nutrition survey: preliminary results". 6th Summer Conference in Intensive Care Medicine, Toronto, Canada, June 14-16, 2007.
- 122) "Pharmaconutrition: A New Emerging Paradigm." Plenary Address. Critical Care Congress, Critical Care Society of South Africa, Sun City, August 14th-17th, 2007.
- 123) "VAP: Getting it right the first time!" Critical Care Congress, Critical Care Society of South Africa, Sun City, August 14th-17th, 2007.
- 124) "The Diagnosis of VAP." Critical Care Congress, Critical Care Society of South Africa, Sun City, August 14th-17th, 2007.
- 125) "Maximizing the benefits and minimizing the risks of nutrition therapy in the ICU." Critical Care Congress, Critical Care Society of South Africa, Sun City, August 14th-17th, 2007.
- 126) "Maximizing the benefits and minimizing the risks of nutrition therapy in the ICU." Critical Care Symposium sponsored by Fresenius Kabi, University of Stellenbosch, Cape Town, South Africa, August 23, 2007.
- 127) "Immunonutrition: New insights?" Critical Care Issues 2007, 6th Symposium on Intensive Care, Brugge, Belgium, Oct 20, 2007.
- 128) "End of life- How I communicate, What I say, and How I teach it to others" Critical Care Canada Forum, Toronto Oct 30-Nov 1, 2007.
- 129) "Pharmaconutrients for Severe Sepsis" Critical Care Canada Forum, Toronto Oct 30-Nov 1, 2007.
- 130) "Implementation of Clinical Practice Guidelines for Nutrition in the Critical Care Setting: The time to act is NOW!" Society for Critical Care Medicine Annual Scientific Conference, Honolulu, Hawaii, February 2-6, 2008.
- 131) "Selenium: The new magic bullet?" Society for Critical Care Medicine Annual Scientific Conference, Honolulu, Hawaii, February 2-6, 2008.
- 132) "The Canadian Clinical Practice Guidelines for Nutrition Support in the Mechanically Ventilated, Critically Ill Patient." Abbott Nutrition Workshop at Society for Critical Care Medicine Annual Scientific Conference, Honolulu, Hawaii, February 2-6, 2008.
- 133) "Pharmaconutrition: A New Emerging Paradigm." Pediatric Refresher course at Society for Critical Care Medicine Annual Scientific Conference, Honolulu, Hawaii, February 2-6, 2008.
- 134) "Tight Glycemic Control is NOT the Standard of Care: Pro/Con debate." 1st Intensive Therapy Forum, Vienna, Austria, February 28-29, 2008.

- 135) "Quantitative cultures are NOT necessary for the diagnosis of VAP: Pro/Con debate." 1st Intensive Therapy Forum, Vienna, Austria, February 28-29, 2008.
- 136) "Implementation of Clinical Practice Guidelines for Nutrition in the Critical Care Setting: Time to act is now!" Spanish Society of Parenteral and Enteral Nutrition, Valencia, Spain, May 16, 2008.
- 137) "End of Life Care for Advanced Heart Failure" 11th Annual Toronto International Heart Failure Summit, Toronto, ON, June 14, 2008.
- 138) "Implementation of Clinical Practice Guidelines for Nutrition in the Critical Care Setting: Time to act is now!" Nutrition Therapy in the ICU- Saving Lives Safely, Society of Critical Care Medicine Summer Academy, Chicago, Illinois, Aug 3-5, 2008.
- 139) "Nutrition Therapy is a Critical Care Emergency!" Nutrition Therapy in the ICU- Saving Lives Safely, Society of Critical Care Medicine Summer Academy, Chicago, Illinois, Aug 3-5, 2008.
- 140) "Optimal Diagnostic Approach to VAP." Turkish Thoracic Society Meeting, Girne, Cyprus, September 10-12, 2008.
- 141) "Educating medical residents in end-of-life care: Results of a national survey." 17th International Congress on Palliative Care, Montreal, September 23-26, 2008.
- 142) "Satisfaction with end of life care: a longitudinal study of patients and their family caregivers in the last months of life." 17th International Congress on Palliative Care, Montreal, September 23-26, 2008.
- 143) "Dying in ICU: A quality finish?" 17th International Congress on Palliative Care, Montreal, September 23-26, 2008.
- 144) "How do we practice critical care nutrition in 2008: Results of an international survey." AuSPEN/ANZICS Pan Asian Critical Care Conference, Sydney Australia, Oct 30-Nov 2, 2008.
- 145) "Pharmakonutrition: A new emerging paradigm." AuSPEN/ANZICS Pan Asian Critical Care Conference, Sydney Australia, Oct 30-Nov 2, 2008.
- 146) "Debate: Immunonutrition has no role in critical care; PRO." AuSPEN/ANZICS Pan Asian Critical Care Conference, Sydney Australia, Oct 30-Nov 2, 2008.
- 147) "Using guidelines to improve the quality of nutrition therapy in the ICU." AuSPEN/ANZICS Pan Asian Critical Care Conference, Sydney Australia, Oct 30-Nov 2, 2008.
- 148) "VAP- A new diagnostic approach." AuSPEN/ANZICS Pan Asian Critical Care Conference, Sydney Australia, Oct 30-Nov 2, 2008.
- 149) "Reorganizing critical care deliver: Pre and post analysis of a step-down unit consolidation project." McColl C, Muscedere J, Drover J, Squires M, Heyland DK. Critical Care Canada Forum, Toronto, Ontario, Nov 2008.
- 150) "2008 Nutrition Survey Results: Are we still failing to deliver what our patients need?" 38th Society for Critical Care Medicine Annual Critical Care Congress, Jan 31-February 3, 2009, Nashville, Tennessee.
- 151) "Feeding Around the World." 38th Society for Critical Care Medicine Annual Critical Care Congress, Jan 31-February 3, 2009, Nashville, Tennessee.

- 152) "Nutrition Therapy: A new paradigm." 38th Society for Critical Care Medicine Annual Critical Care Congress, Jan 31-February 3, 2009, Nashville, Tennessee.
- 153) "Glutamine: A life saving therapy?" Kuala Lumpur, Malaysia, February 24, 2009.
- 154) "A Canadian Perspective on Critical Care Nutrition." Philippine Society for Enteral and Parenteral Nutrition, Kota Kinabalu, Malaysia, Feb 26, 2009.
- 155) Glutamine: A life saving therapy?" Fresenius Kabi Advanced Nutrition Course, Kota Kinabalu, Malaysia, Feb 26, 2009.
- 156) Glutamine: a message from the guidelines" Fresenius Kabi Advanced Nutrition Course, Kota Kinabalu, Malaysia, Feb 26, 2009.
- 157) "Pharmaconutrition: A new emerging paradigm." PALISI Scientific Meeting, Snowbird, Utah, March 4-6, 2009.
- 158) "End of life research program in the ICU." PALISI Scientific Meeting, Snowbird, Utah, March 4-6, 2009.
- 159) "Candida in the airways does matter!" Pro/Con debate, 29th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 24-27th, 2009.
- 160) "Pharmaconutrition: A new emerging paradigm." 29th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 24-27th, 2009.
- 161) "Feeding should always be started early!" Pro/Con debate, 29th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 24-27th, 2009.
- 162) "Has VAP become entirely preventable?" Roundtable, 29th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 24-27th, 2009.
- 163) "What about culture-negative infections". 29th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 24-27th, 2009.
- 164) "Teaching End of Life Care to housestaff." 29th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 24-27th, 2009.
- 165) "Selenium in Sepsis: A magic bullet?" German Sepsis Society Conference, Weimar, September 9-12, 2009.
- 166) "Lessons from the NICE SUGAR Trial." German Sepsis Society Conference, Weimar, September 9-12, 2009.
- 167) "Mono- or Combination Therapy in Sepsis." German Sepsis Society Conference, Weimar, September 9-12, 2009.
- 168) "Nutrition as Therapy in the Critical Care Setting: The clock is ticking!" German Sepsis Society Conference, Weimar, September 9-12, 2009.
- 169) "Critical Care For an Aging Population." Critical Care Canada Forum, Toronto, Ontario, Canada, October 25-28, 2009.
- 170) "Early Enteral Nutrition in the ICU: The clock is ticking!" Society of Critical Care Medicine Annual Scientific and Education Meeting, Miami Beach, January 13, 2010.

- 171) "Tight Glycemic Control should be Abandoned (PRO)" Pro/Con debate. SCCM Post Conference Symposium on Hyperglycemia and Critical Illness, Key West, Florida, Jan 14-17, 2010.
- 172) "Early Parenteral Nutrition Should be Used in Critically Ill Patients. (CON)" Pro/Con debate. SCCM Post Conference Symposium on Hyperglycemia and Critical Illness, Key West, Florida, Jan 14-17, 2010.
- 173) "Early Parenteral Nutrition Should NOT be Used in Critically Ill Patients." Pro/Con debate. Clinical Nutrition Week, Las Vegas, February 8-12, 2010.
- 174) "Barriers and Facilitators to Making it Happen!" Clinical Nutrition Week, Las Vegas, February 8-12, 2010.
- 175) "Lost in (Knowledge) Translation." Clinical Nutrition Week, Las Vegas, February 8-12, 2010.
- 176) "Tight Glycemic Control in Critically ill Adults." Clinical Nutrition Week, Las Vegas, February 8-12, 2010.
- 177) "Second Generation Enteral Feeding Protocols: Taking us to the next level of performance." Clinical Nutrition Week, Las Vegas, February 8-12, 2010.
- 178) "Pharmaconutrition: One size does not fit all." 30th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 9-12th, 2010.
- 179) "Adding Parenteral to Enteral" Pro/Con debate (CON). 30th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 9-12th, 2010.
- 180) "Selenium in the Intensive Care Unit- A review of studies." 30th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 9-12th, 2010.
- 181) "Tight Glycemic Control in the Critically Ill Patient: From clinical trials to clinical practice Guidelines." Italian Parenteral and Enteral Nutrition Society Spring Meeting, Trieste, Italy, March 12, 2010.
- 182) "Satisfaction with end of life care: Rural vs. urban experience." Moving Palliative and End of life Care Forward: Focus on Rural Health, Edmonton, Alberta, May 17-20, 2010.
- 183) "Second generation feeding protocols: Taking us to the next level of performance." German Nutrition Society 2010, Leipzig German June 17-19, 2010.
- 184) "Feeding the hypotensive patient". German Nutrition Society 2010, Leipzig German June 17-19, 2010.
- 185) "Implementing clinical practice guidelines: the Canadian Experience." German Nutrition Society 2010, Leipzig German June 17-19, 2010.
- 186) "Nutrition as Therapy in the Critical Care Setting: The clock is ticking!" Update in Critical Care, University of Minnesota, Minneapolis Minnesota, September 17, 18, 2010.
- 187) "Optimal Decision-Making at the End of Life" Update in Critical Care, University of Minnesota, Minneapolis Minnesota, September 17, 18, 2010.
- 188) "Nutrition as Therapy in the Critical Care Setting: The clock is ticking!" Annual Scientific Conference of the Russian Critical Care Society, Moscow, Russia, September 20-22, 2010.

- 189) "Narrowing the Gap: Improving adherence to clinical practice guidelines in critical care." Annual Scientific Conference of the Russian Critical Care Society, Moscow, Russia, September 20-22, 2010.
- 190) "International Nutrition Survey 2011" Annual Scientific Conference of the Russian Critical Care Society, Moscow, Russia, September 20-22, 2010.
- 191) "Antioxidants in the Critically ill." Annual Scientific Conference of the Federacion Latinoamericana de Nutricion Clinica y Metabolismo (FELANPE), Asuncion, Paraguay, October 2-6, 2010.
- 192) "Nutrition as Therapy in the Critical Care Setting: The clock is ticking!" Annual Scientific Conference of the Federacion Latinoamericana de Nutricion Clinica y Metabolismo (FELANPE), Asuncion, Paraguay, October 2-6, 2010.
- 193) "Narrowing the Gap: Improving adherence to clinical practice guidelines in critical care." Annual Scientific Conference of the Federacion Latinoamericana de Nutricion Clinica y Metabolismo (FELANPE), Asuncion, Paraguay, October 2-6, 2010.
- 194) "Case Studies in Critical Illness" Annual Scientific Conference of the Federacion Latinoamericana de Nutricion Clinica y Metabolismo (FELANPE), Asuncion, Paraguay, October 2-6, 2010.
- 195) "Defining priorities to improve end of life care in Canada." 18th International Congress on Palliative Care, Montreal Canada, October 5-8, 2010.
- 196) "Optimizing end-of-life care on medical clinical teaching units: The role of the CANHELP questionnaire and a nurse facilitator." 18th International Congress on Palliative Care, Montreal Canada, October 5-8, 2010.
- 197) "Nutrition as Therapy in the Critical Care Setting: The clock is ticking!" 2010 National Chinese Critical Care Meeting, Beijing, China, October 16-18, 2010.
- 198) "Feeding Practices Around the World: Results of an international survey of nutrition practice" 2010 National Chinese Critical Care Meeting, Beijing, China, October 16-18, 2010.
- 199) "Nutrition as therapy: the time to act is now!" AuSPEN-ANZICS Combined Meeting on Nutrition therapy in the ICU, Auckland, New Zealand, November 3, 2010.
- 200) "Narrowing the Gap: Improving adherence to clinical practice guidelines in critical care" AuSPEN-ANZICS Combined Meeting on Nutrition therapy in the ICU, Auckland, New Zealand, November 3, 2010.
- 201) "Evidence-based nutrition therapy in the ICU" AuSPEN-ANZICS Combined Meeting on Nutrition therapy in the ICU, Melbourne, Australia, November 3-4, 2010.
- 202) "Malnutrition in the ICU: Can we reliably detect it?" AuSPEN-ANZICS Combined Meeting on Nutrition therapy in the ICU, Melbourne, Australia, November 3-4, 2010.
- 203) "Pharmaconutrition in the ICU: the modern concept in critical illness" AuSPEN-ANZICS Combined Meeting on Nutrition therapy in the ICU, Melbourne, Australia, November 3-4, 2010.
- 204) "How do we cement the importance of nutrition therapy in the ICU" AuSPEN-ANZICS Combined Meeting on Nutrition therapy in the ICU, Melbourne, Australia, November 3-4, 2010.

- 205) "Nutrition as Therapy: One size does not fit all." AuSPEN-ANZICS Combined Meeting on Nutrition therapy in the ICU, Royal Prince Alfred Hospital, Sydney, Australia, November 8th, 2010.
- 206) "Nutrition as Therapy: One size does not fit all." AuSPEN-ANZICS Combined Meeting on Nutrition therapy in the ICU, Westmeade Hospital, Sydney, Australia, November 9th, 2010.
- 207) "Nutrition as Therapy: One size does not fit all." AuSPEN-ANZICS Combined Meeting on Nutrition therapy in the ICU, Gold Coast Hospital, Gold Coast, Australia, November 10th, 2010.
- 208) "Nutrition as Therapy: One size does not fit all." AuSPEN-ANZICS Combined Meeting on Nutrition therapy in the ICU, Brisbane, Australia, November 10th, 2010.
- 209) "Nutrition Therapy in Sepsis: What is the evidence?" 16th International Symposium of Infections in the Critically Ill Patient. Porto, Portugal, February 24-26, 2011.
- 210) "Malnutrition in the ICU." XV Congreso Argentino de Soporte Nutricional y Metabolismo, Buenos Aires, Argentina, May 16-18, 2011.
- 211) "Narrowing the Gap in Nutrition: The time to act is now!" XV Congreso Argentino de Soporte Nutricional y Metabolismo, Buenos Aires, Argentina, May 16-18, 2011.
- 212) "Narrowing the Gap: Improving adherence to clinical practice guidelines in critical care" IV Brazilian Conference on Integrated Nutrition and Ganepao, Sao Paulo, Brazil, June 15-18, 2011.
- 213) "Enhanced Protein-Energy Provision via the Enteral Route in Critically ill Patients: The PEP uP protocol." IV Brazilian Conference on Integrated Nutrition and Ganepao, Sao Paulo, Brazil, June 15-18, 2011.
- 214) "Immunonutrition: From Old Approaches to New Paradigms." XI Congreso Internacional De Medicina Intensiva, Sociedad Peruana de Medicina Intensiva, Lima Peru, June 23-25, 2011.
- 215) "Narrowing the Gap: Improving adherence to clinical practice guidelines in critical care." XI Congreso Internacional De Medicina Intensiva, Sociedad Peruana de Medicina Intensiva, Lima Peru, June 23-25, 2011.
- 216) "Nutrition as Therapy" XI Congreso Internacional De Medicina Intensiva, Sociedad Peruana de Medicina Intensiva, Lima Peru, June 23-25, 2011.
- 217) "Effect of Glutamine in the Critically ill Patient." XI Congreso Internacional De Medicina Intensiva, Sociedad Peruana de Medicina Intensiva, Lima Peru, June 23-25, 2011.
- 218) "Nutrition Therapy in the ICU" 14th Congress of PENSA, Taipei, Taiwan, October 14-16, 2011.
- 219) "Malnutrition in the ICU" 14th Congress of PENSA, Taipei, Taiwan, October 14-16, 2011.
- 220) "Strategies to Optimize Enteral Nutrition in the ICU" 14th Congress of PENSA, Taipei, Taiwan, October 14-16, 2011.
- 221) "Malnutrition in the ICU." Malaysian Critical Care Society Nutrition Workshop, Kuala Lumpur, Malaysia, October 22, 2011.
- 222) "Strategies on Optimizing Delivery of EN in the ICU." Malaysian Critical Care Society Nutrition Workshop, Kuala Lumpur, Malaysia, October 22, 2011.

- 223) "Malnutrition in the ICU" XII Congreso Uruguayo de Medicina Intensiva, Montevideo, Uruguay, November 2-5, 2011.
- 224) "Narrowing the Gap: Improving adherence to clinical practice guidelines in critical care." XII Congreso Uruguayo de Medicina Intensiva, Montevideo, Uruguay, November 2-5, 2011.
- 225) "Glutamine in the critically ill: who, when, and how". XII Congreso Uruguayo de Medicina Intensiva, Montevideo, Uruguay, November 2-5, 2011.
- 226) "Optimizing EN delivery in the critically ill." Post Graduate Course, Clinical Nutrition Week, Orlando, Florida, Jan 22-25, 2012.
- 227) "Malnutrition in the ICU: Time for change". Clinical Nutrition Week, Orlando, Florida, Jan 22-25, 2012.
- 228) "A multicenter, cluster randomized trial of enhanced protein-energy provision via the enteral route feeding protocol in critically ill patients: The PEP uP protocol." Clinical Nutrition Week, Orlando, Florida, Jan 22-25, 2012.
- 229) "A multicenter, cluster randomized trial of enhanced protein-energy provision via the enteral route feeding protocol in critically ill patients: The PEP uP protocol." 32nd International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 20-23, 2012.
- 230) "Decision Aid improve quality of care!" 32nd International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 20-23, 2012.
- 231) "Feeding the obese critically ill patient." 32nd International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 20-23, 2012.
- 232) "What are the nutrition targets? And should we struggle to meet them?" 32nd International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 20-23, 2012.
- 233) "Malnutrition in the ICU: Time for a change!" Korean Society of Enteral and Parenteral Nutrition, May 3, 2012, Seoul, South Korea.
- 234) "Malnutrition in the ICU: Time for a change!" 2012 Nutrition Asia-Pacific Academy (NutriPAC), May 4-5, 2012, Seoul, South Korea.
- 235) "Optimizing Nutrition Delivery in the Critically Ill". 2012 Nutrition Asia-Pacific Academy (NutriPAC), May 4-5, 2012, Seoul, South Korea.
- 236) "Driving Process Improvement in Surgical Nutrition: Lessons learned from Critical Care Nutrition." North American Summit on Surgical Nutrition, Phoenix Arizona, September 21-23, 2012.
- 237) "Moving beyond survival: The importance of adequate nutrition in enhancing the recovery of ICU patients". 13th Scientific Conference of FELANPE, Panama City, Panama, October 1-6, 2012.
- 238) "A Randomized trial of high-dose glutamine and antioxidants in critically ill patients with multi organ failure: The REDOXs Study". 13th Scientific Conference of FELANPE, Panama City, Panama, October 1-6, 2012.
- 239) "Iatrogenic malnutrition in the ICU: Time for a change!" 13th Scientific Conference of FELANPE, Panama City, Panama, October 1-6, 2012.

- 240) "Do antioxidants have a benefit? REDOXs study results." 37th Annual ANZICS/ACCCN Intensive Care ASM 2012, Adelaide, Australia, October 25–27, 2012.
- 241) "Iatrogenic malnutrition in the ICU: Time for a change!" 37th Annual ANZICS/ACCCN Intensive Care ASM 2012, Adelaide, Australia, October 25–27, 2012.
- 242) "Enteral nutrition – what works?" 37th Annual ANZICS/ACCCN Intensive Care ASM 2012, Adelaide, Australia, October 25–27, 2012.
- 243) "REDOXS study – glutamine and antioxidants". 3rd Alfred ICU Nutrition in the Critically Ill Symposium, Melbourne, Australia, November 9, 2012.
- 244) "Identifying the Best of the Best to improve performance". 3rd Alfred ICU Nutrition in the Critically Ill Symposium, Melbourne, Australia, November 9, 2012.
- 245) "What you can do in your ICU, panel discussion". 3rd Alfred ICU Nutrition in the Critically Ill Symposium, Melbourne, Australia, November 9, 2012.
- 246) "Using the NUTRIC score to optimize ICU nutrition". 3rd Alfred ICU Nutrition in the Critically Ill Symposium, Melbourne, Australia, November 9, 2012.
- 247) "Feeding: How and when? Optimal amount of calories". Update on Metabolism and Nutrition in Intensive Care Medicine, Rome, December 17, 2012.
- 248) "Round Table: When to start feeding?" Update on Metabolism and Nutrition in Intensive Care Medicine, Rome, December 17, 2012.
- 249) "Enteral nutrition. Enhanced protein-energy provision: PEPUP protocol". Update on Metabolism and Nutrition in Intensive Care Medicine, Rome, December 17, 2012.
- 250) "Pharmaconutrition. Glutamine and antioxidants: Results of the REDOXs study". Update on Metabolism and Nutrition in Intensive Care Medicine, Rome, December 18, 2012.
- 251) "How much is enough: Can we predict who needs nutrition most?" Clinical Nutrition Week, Phoenix, AZ, February 9, 2013.
- 252) "The effect of high dose glutamine and antioxidant supplementation in critically ill patients: secondary subgroup analysis of the REDOXs trial". Clinical Nutrition Week, Phoenix, AZ, February 9, 2013
- 253) "An economic analysis of enteral and parenteral nutrition". Clinical Nutrition Week, Phoenix, AZ, February 9, 2013
- 254) "Canadian Clinical Practice Guidelines for nutrition support in the critically ill in 2013: what are the latest recommendations?" Clinical Nutrition Week, Phoenix, AZ, February 9, 2013
- 255) "Skeletal muscle mass predicts ventilator-free days, ICU-free days, and mortality in elderly ICU patients". Clinical Nutrition Week, Phoenix, AZ, February 9, 2013
- 256) "Alternative lipid strategies in the critically ill: a systematic review and meta-analysis". Clinical Nutrition Week, Phoenix, AZ, February 9, 2013
- 257) "Use of intravenous fat emulsions in critically ill patients – a secondary analysis of an international observational multicenter study". Clinical Nutrition Week, Phoenix, AZ, February 9, 2013

- 258) "The impact of feeding route on clinical outcomes in critically ill neurologically injured patients". Clinical Nutrition Week, Phoenix, AZ, February 9, 2013
- 259) "Implementing a multifaceted tailored intervention to improve nutritional adequacy in critically ill patients: results of a multicenter feasibility study". Clinical Nutrition Week, Phoenix, AZ, February 9, 2013
- 260) "Evaluation of educational strategies for implementation of the enhanced protein-energy provision via the enteral route feeding protocol (The PEP uP Protocol). Clinical Nutrition Week, Phoenix, AZ, February 9, 2013
- 261) "REDOXs trial". Clinical Nutrition Week, Phoenix, AZ, February 10, 2013
- 262) "The inter-rater reliability and intra-rater reliability of bedside ultrasounds of the femoral muscle thickness". Clinical Nutrition Week, Phoenix, AZ, February 10, 2013
- 263) "The limits and strengths of meta-analyses". Clinical Nutrition Week, Phoenix, AZ, February 10, 2013
- 264) "Novel ideas to diagnose malnutrition and enhance enteral feeding in the ICU". Clinical Nutrition Week, Phoenix, AZ, February 11, 2013.
- 265) "Fish oil: creating clarity from confusion". Clinical Nutrition Week, Phoenix, AZ, February 11, 2013.
- 266) "The role of energy and protein in modulating ICU-acquired muscle weakness". Clinical Nutrition Week, Phoenix, AZ, February 11, 2013.
- 267) "Hot topics and morning tea: PEP uP with Daren Heyland. Clinical Nutrition Week, Phoenix, AZ, February 12, 2013.
- 268) "Can we optimize the amount of protein and calories: predicting who need nutrition most." Clinical Nutrition Week, Phoenix, AZ, February 12, 2013.
- 269) "Optimizing ICU nutrition". 8th KEPAN Congress, Antalya, Turkey. March 28, 2013.
- 270) "Identifying critically ill patients who benefit the most from ICU nutrition therapy". 8th KEPAN Congress, Antalya, Turkey. March 30, 2013.
- 271) "Results of REDOXs Study: Secondary analysis". Fresenius Kabi Expert Panel Review, Bad Homburg, Germany, April 24/25, 2013.
- 272) "The role of glutamine and antioxidants in the ICU: results of the REDOXs study". 2nd Singapore-ANZICS Intensive Care Forum 2013. Singapore. July 12, 2013.
- 273) "Advance care planning". 2nd Singapore-ANZICS Intensive Care Forum 2013. Singapore. July 12, 2013.
- 274) "Optimizing nutrition delivery in the critically ill: The role of supplemental parenteral nutrition". 2nd Singapore-ANZICS Intensive Care Forum 2013, Singapore. July 12, 2013.
- 275) "Optimizing nutrition delivery in the critically ill patient". Colorado Parenteral and Enteral Nutrition Society Meeting, Denver, Colorado, September 20, 2013.

- 276) "Recent Clinical Trials: What have we learned?" Clinical Nutrition Week, American Society for Enteral and Parenteral Nutrition, Savannah, Georgia, January 18-21, 2014.
- 277) "Controversies in Nutrient-Specific Therapies: Effective or ineffective?" Clinical Nutrition Week, American Society for Enteral and Parenteral Nutrition, Savannah, Georgia, January 18-21, 2014.
- 278) "Optimizing outcomes of critically ill and surgical patients: The importance of nutrition and exercise." Clinical Nutrition Week, American Society for Enteral and Parenteral Nutrition, Savannah, Georgia, January 18-21, 2014.
- 279) "REDOXS- A secondary analysis: What have we learned?" Clinical Nutrition Week, American Society for Enteral and Parenteral Nutrition, Savannah, Georgia, January 18-21, 2014.
- 280) "Innovative Approaches to Overcoming Barriers to Improving Nutrition Practices." Clinical Nutrition Week, American Society for Enteral and Parenteral Nutrition, Savannah, Georgia, January 18-21, 2014.
- 281) "Electrolyte and acid-base-Standard presentation" International Symposium on Intensive Care and Emergency Medicine March 18, 2014
- 282) "Glutamine and antioxidants: An update" International Symposium on Intensive Care and Emergency Medicine March 19, 2014
- 283) "Candida in the lung: Should we treat it? International Symposium on Intensive Care and Emergency Medicine March 19, 2014
- 284) "Optimal amounts of calories and protein" International Symposium on Intensive Care and Emergency Medicine March 19, 2014
- 285) "We do not know enough about patients' preferences?" International Symposium on Intensive Care and Emergency Medicine, March 19, 2014
- 286) "Outcomes of the very elderly" International Symposium on Intensive Care and Emergency Medicine March 20, 2014
- 287) "Not all ICU patients will benefit" International Symposium on Intensive Care and Emergency Medicine March 20, 2014
- 288) "Nutritional Support" International Symposium on Intensive Care and Emergency Medicine March 20, 2014
- 289) "Controversies in specific nutritional therapies in ICU: Effective In the effective" XXVIII Annual Conference Advances in Metabolism and Nutritional Support, Bogota D.C., Columbia, May 1, 2014
- 290) "What about lipids?" XXVIII Annual Conference Advances in Metabolism and Nutritional Support, Bogota D.C., Columbia, May 1, 2014
- 291) "International Nutrition Survey: A Global Experience" XXVIII Annual Conference Advances in Metabolism and Nutritional Support, Bogota D.C., Columbia, May 2, 2014
- 292) "Recent Clinical Trials in critical care: What have we learned?" 16th Congress and 28th International Conference of Polish Society for Parenteral, Enteral Nutrition and Metabolism (POLSPEN), Jachrnka, Poland, June 20, 2014.

- 293) "Controversies in Nutrient-Specific Therapies: Effective or Ineffective?" 16th Congress and 28th International Conference of Polish Society for Parenteral, Enteral Nutrition and Metabolism (POLSPEN)
- 294) "Glutamine: What are the remaining questions?" 36<sup>th</sup> ESPEN Congress on Clinical Nutrition and Metabolism, Geneva, Switzerland, September 6-9, 2014.
- 295) "Iatrogenic Underfeeding is Harmful to High Risk Critically Ill Patients" The State of the Art Meeting 2014, London, UK, Dec 8, 2014.
- 296) "Pharmaconutrition" The State of the Art Meeting 2014, London, UK, Dec 8, 2014.
- 297) "Feeding a Heterogenous ICU Population: What is the Evidence?" ASPEN Clinical Nutrition Week, Long Beach, California, Feb 16, 2015.
- 298) "Optimizing the Use of Lipid Emulsions in Parenteral Nutrition: Biochemistry, Physiology and Patient Selection" ASPEN Clinical Nutrition Week, Long Beach, California, Feb 16, 2015.
- 299) "Iatrogenic underfeeding is harmful in the ICU setting: Strategies to improve nutrition delivery" Klinik Enteral ve Parenteral Nutrisyon Kongresi 2015, Antalya, Turkey, Mar 20, 2015.
- 300) "Glutamine and Antioxidants in ICU: End of an era?" Klinik Enteral ve Parenteral Nutrisyon Kongresi 2015, Antalya, Turkey, Mar 20, 2015.
- 301) "Iatrogenic Underfeeding is Harmful to 'High-Risk' Critically ill Patients!" ESPEN Congress 2015, Lisbon, Portugal. Sep 6, 2015.
- 302) "Long-term Outcomes of the Very Elderly Admitted to ICUs in Canada: A Quality Finish?" The 7th Weimar Sepsis Congress of the German Sepsis Society, Weimar, Germany. Sep 10, 2015.
- 303) "Feeding the Obese Critically Ill". The 7th Weimar Sepsis Congress of the German Sepsis Society, Weimar, Germany. Sep 10, 2015.
- 304) "Nutrition Risk Assessment in Critically ill Patients!". Congresso Brasileiro de Nutrição Paraenteral e Enteral, Brasilia, Brazil. Oct 19, 2015.
- 305) "Iatrogenic Underfeeding is Harmful to 'High-Risk' Critically ill Patients!". Congresso Brasileiro de Nutrição Paraenteral e Enteral, Brasilia, Brazil. Oct 19, 2015.
- 306) "Glutamine and Antioxidants in the ICU: End of an era?" Symposium on Clinical Nutrition in the ICU; University of Bern, Bern Switzerland, November 19<sup>th</sup>, 2015.
- 307) "Advances in ultrasound technology for quantifying skeletal muscle mass" The 8th International Conference on Cachexia, Sarcopenia and Muscle Wasting, Paris, France. Dec 5, 2015.
- 308) "Nutrition Risk and Trophic Feeding: What Does it Mean?" ASPEN Clinical Nutrition Week 2016, Austin, Texas, January 16 2016.
- 309) "Feeding the Obese Criticall ill" Society of Critical Care Medicine 2016, Orlando, Florida., February 2016.
- 310) "Current Concepts and Controversies in Nutrition" Critical Care Congress, Orlando, Florida, February 19, 2016
- 311) "Nutrition Support in Special Populations – Panel Discussion" Critical Care Congress, Orlando, Florida, February 24, 2016

- 312) "Glutamine and antioxidants in the ICU. End of an era? 10<sup>th</sup> Symposium on Intensive Care; AZ Sint-Jan Brugge-Oostende Av, campus Brugge, Belgium, October 22, 2016
- 313) "Enhancing clinical care through palliative care Research-6<sup>th</sup> International Seminar of the European Palliative Care Research Organization, Banff, AB, Canada , December 1-3, 2016
- 314) "Micronutrients-do they help our patients?" Society for Critical Care Medicine Annual Scientific Meeting, Honolulu, Hawaii, Jan. 20-23 ,2017
- 315) "Protein Delivery in the ICU: Optimal or Sub-optimal?, Clinical Nutrition Week- Orlando, Florida, February 17- 21, 2017
- 316) "Clinical Research in an Age of Collaboration-Together We Can Do Bigger and Better", Rhoads Research lecture and Awards Ceremony, Clinical Nutrition Week –Orlando, Florida, February 17-21, 2017.

#### **XVI. INTRAMURAL PRESENTATIONS**

**Total Presentations: 36**

- 1) "Effect of Acidified Enteral Feeds on Gastric Colonization". Regional Critical Care Research Rounds, Hamilton Ontario, Feb 1991.
- 2) "Enteral Nutrition: Past, Present and Future Research Directions". Regional Critical Care Research Rounds, Hamilton, Ontario, May 1993.
- 3) "Gastrointestinal Dysfunction, Enteral Nutrition and Infection in Critical Illness". Regional Critical Care Rounds, Hamilton, Ontario, Feb 1996.
- 4) "Is the High Cost of Intensive Care Worthwhile?" Department of Medicine Rounds, Queen's University, Kingston, Ontario, May 1996.
- 5) "A Randomized Trial of Empiric Broad Spectrum Antibiotics and Invasive Bronchoscopy in the Setting of Ventilator-Associated Pneumonia". Critical Care Rounds, Kingston, Ontario, September, 1998.
- 6) "The Attributable Morbidity and Mortality of Ventilator-Associated Pneumonia in the Critically Ill Patient". Critical Care Rounds, Kingston, Ontario, October, 1998.
- 7) "Decision Making Near the End of Life", Internal Medicine Resident's Academic Half Day, Kingston, Ontario, Jan 20, 1999.
- 8) "Systematic Reviews of the Literature: Problems or Panacea?" Department of Medicine Grand Rounds, Kingston, Ontario, Jan 21, 1999.
- 9) "A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia." Critical Care Rounds, Kingston General Hospital, Ontario, September 7, 1999.
- 10) "End of Life Care In Canada: A Quality Finish?" Department of Medicine Grand Rounds, Kingston, Ontario, Nov 25, 1999.
- 11) "Dying In Canada: A Quality Finish?" Critical Care Rounds, Kingston General Hospital, Kingston, Ontario, Dec 7, 2000.

- 12) "Dying In Canada: A Quality Finish?" Ethics for Lunch Rounds, Kingston General Hospital, Kingston, Ontario, January 18th, 2001.
- 13) "Evidence-Based Medicine" Radiology Rounds, Kingston General Hospital, May 30, 2001.
- 14) "Gastrointestinal (Dys)function in Critical Illness". Research in progress rounds, Division of Gastroenterology, Hotel Dieu Hospital, Oct 23, 2001.
- 15) "The Potential of Proteomics" Department of Medicine Research Rounds, Kingston General Hospital, April 26, 2002.
- 16) "Is Reading an Economic Evaluation an Efficient Use of Your Time?" Critical Care Medicine Journal Club, November 14, 2002.
- 17) "Clinical Evaluation Research Unit" KGH Research Advisory Committee Board Meeting, December 5, 2002.
- 18) "Dying in Canada: A Quality Finish?" Department of Family Medicine Rounds, Queen's University, June 12, 2003.
- 19) "REducing Deaths from OXidative Stress: A randomized trial of glutamine and antioxidant supplementation in critically ill patients. The REDOXS study." Critical Care Rounds, Queen's University, September 22, 2003.
- 20) "REducing Deaths from OXidative Stress: A randomized trial of glutamine and antioxidant supplementation in critically ill patients. The REDOXS study." Gastrointestinal Diseases Research Unit Research in Progress, Queen's University, September 23, 2003.
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- 306) You J, Simon J, Sharma N, Allatt P, Swinton M, Mantle C, Consoli A, Freeman G, Jayaraman D, **Heyland DK**. Acceptability and potential utility of a novel values clarification tool to enable person-centred conversations about goals of care. International Congress on Palliative Care. 2016 Oct. JPSM Volume 52, Issue 6, Page e75 DOI:10.1016/j.jpainsymman.2016.10.149
- 307) Howard M, Bernard C, Klein D, Tan A, Slaven M, Barwich D, You J, Elston D, Arora N, Hanvey L, Asselin G, Mroz L, Heyland R, **Heyland DK**. Barriers and enablers to implementing advance care planning with patients in primary care: a multicentre survey of clinicians. North American Primary Care Research Group (NAPCRG) Conference. Colorado Springs, Colorado, November 12-16, 2016.
- 308) You J, Swinton M, Mantle C, Jayaraman D, **Heyland DK**. Effect of a Video Decision Aid on Clinical Decision-Making About Cardiopulmonary Resuscitation. International Congress on Palliative Care. 2016 Oct. JPSM December 2016 Volume 52, Issue 6, Page e77
- 309) Chourdakis M., Day AG., Doundoulakis J., **Heyland DK**, Are ALL Low NUTRIC Score patients the Same? The Impact of Optiaml Nutrition intake in Low NUTRIC patient Subgroups, Clinical Nutrition Week 2017- Orlando, Florida JPEN vol. 41, 2 pp. 266-300
- 310) **Heyland DK.**, Lemieux M., McDonald BJ., Stoppe C., A Randomized Trial of Selenium supplementation in High-Risk Cardiac Surgery Patients: Results of a Multicentre Pilot Study, Clinical Nutrition Week 2017- Orlando, Florida JPEN vol. 41, 2pp. 266-300

#### Published Letters

- 1) Soskolne C, **Heyland DK**, Phillips E. Human T Lymphotropic virus: Exposure and Prognosis. Can Med Assoc J. 1986;134:575-577.
- 2) **Heyland DK**, Drover J, Aitken S for the Kingston ICU Journal Club. The effectiveness of right heart catheterization in seriously ill patients. JAMA 1997;277:108-13.

- 3) **Heyland DK**, Drover J. A prospective randomized, double-blind, controlled clinical trial of immunonutrition. Crit Care Med 2000;28:906.
- 4) **Heyland DK**, Drover J, Dhaliwal R for the Canadian Clinical Practice Guidelines Committee. Does the addition of glutamine to enteral feeds affect patient mortality? Crit Care Med 2006;July;34(7):2031-2.
- 5) Thomson A, McClave SA, **Heyland DK**. Nutrition therapy in acute pancreatitis. JPEN J Parenter Enteral Nutr 2006;Nov-Dec;30(6):536-538.
- 6) Heller AR, Mayer K, **Heyland DK**. Fish oil in sepsis: if you want to catch more fish, use more hooks. JPEN J Parenter Enteral Nutr 2011 (Mar-Apr);35(2):154-5.
- 7) Elke G, **Heyland DK**. Residual gastric volume and risk of ventilator-associated pneumonia. JAMA 2013;309(20):2090.
- 8) **Heyland DK**, Dhaliwal R, Lemieux M. More questions than answers. JPEN J Parenter Enteral Nutr. 2015 Feb;39(2):143. (PMID: 25632057).
- 9) **Heyland D**, Earthman C, Compher C. Acute MuscleWasting Among Critically Ill Patients. JAMA 2014;311(6):621-622.
- 10) Yeh DD, **Heyland DK**, Enteral nutrition in traumatic brain injury (PMID: 28030493)

#### Submitted Letters

- 1) Yeh DD, **Heyland DK**. In response to "Early feeds not force feeds: Enteral nutrition in traumatic brain injury." (Submitted Oct 2016 to the Journal of Trauma and Acute Care Surgery).

#### Editorials, Commentaries, etc.

- 1) **Heyland DK**, Cook DJ. Commentary on "Elevation of systemic oxygen delivery in the treatment of critically ill patients". ACP J Club 1994 Nov/Dec;121:63.
- 2) Martin C, **Heyland DK**. In search of the "Magic" nutraceutical. Crit Care Med 1999;27:251-2.
- 3) **Heyland DK**, Kutsogiannis DJ. Quality of life following critical care: Moving beyond survival. Intensive Care Med 2000;26:1172-1175.
- 4) **Heyland DK**, Novak F. Commentary on "Enteral immunonutrition reduced infection risk, days on ventilator, and hospital stay in critically ill patients." ACP J Club 2000;133:9.
- 5) **Heyland DK**, "Pro/con clinical debate: The use of a protected specimen brush in the diagnosis of ventilator-associated pneumonia. Crit Care 2002;6:117-120.
- 6) **Heyland DK**, Paterson WG. Fluid restriction for post-operative patients? Lancet 2002;359(9320):1792-1793.
- 7) **Heyland DK**, Samis A. Does immunonutrition in patients with sepsis do more harm than good? Intensive Care Med 2003;29(May):669-671.
- 8) Rocker GM, **Heyland DK**. New research initiatives in Canada for end-of-life and palliative care.

CMAJ 2003; 169(4):300-301.

- 9) **Heyland DK**, Dhaliwal R, Drover JW. Nutrition support in mechanically ventilated, critically ill adult patients: Are we ready for evidence-based clinical practice guidelines? *Nutr Clin Pract* 2004; 19(June):193-200.
- 10) **Heyland DK**. Specialized nutrition support in pancreatitis: use the GUT! *Med Prakt* 2004;163(9):131-132.
- 11) **Heyland DK**, Dhaliwal R. Early enteral nutrition vs. early parenteral nutrition: An irrelevant question for the critically ill? *Crit Care Med* 2005;Jan;33(1) 260-261.
- 12) **Heyland DK**, Dhaliwal R. Immunonutrition in the critically ill: from old approaches to new paradigms. *Intensive Care Med* 2005;Apr;31(4):501-3.
- 13) **Heyland DK**. The definitive position on early nutritional support is yet to be established. *Crit Care Med* 2005;June;33(6):1473.
- 14) **Heyland DK**. Selenium supplementation in critically ill patients: Can too much of a good thing be a bad thing? *Crit Care* 2007;11(4):153.
- 15) **Heyland DK**, Dhaliwal R, McClave S. Commentary. If you don't connect the dots, you may not see the whole picture! *JPEN J Parenter Enteral Nutr* 2008;32(4):486-488.
- 16) Jones NE, **Heyland DK**. Implementing nutrition guidelines in the critical care setting. A worthwhile and achievable goal? *JAMA* 2008;300(23):2798-2799.
- 17) **Heyland DK**. Early enteral supplementation with key pharmaconutrients improves Sequential Organ Failure Assessment score in critically ill patients with sepsis: Outcome of a randomized, controlled, double-blind trial. *JPEN J Parenter Enter Nutr* 2008;32(6):673-674.
- 18) Jones NE, **Heyland DK**. Evidence-based nutrition guidelines for critically ill adults – Reply. *JAMA* 2009;15:1544.
- 19) **Heyland DK**. Are we still failing to deliver what our patients need? 38<sup>th</sup> Critical Care Congress Review 2009;12-13.
- 20) McClave SA, **Heyland DK**, Wischmeyer P. Probiotic prophylaxis in predicted severe acute pancreatitis: A randomized, double-blind, placebo-controlled trial. Reply. *JPEN J Parenter Enteral Nutr* 2009;33(4):444-446.
- 21) Kryworuchko J, **Heyland DK**. Using family satisfaction data to improve the processes of care in ICU. *Intensive Care Med* 2009;35:2015-2017.
- 22) Cook DJ, **Heyland DK**. Pharmaconutrition in acute lung injury. *JAMA* 2011;306(14):1599-600. Epub 2011 Oct 5.
- 23) **Heyland DK**. ACP Journal Club. Late initiation of parenteral nutrition reduced length of intensive care unit stay. Commentary. *Ann Intern Med* 2011 Nov 15;155(10):JC-11.
- 24) **Heyland DK**. Early supplemental parenteral nutrition in critically ill adults increased infections, ICU length of stay and cost. *Evid Based Med* 2012;17(3):86-87.
- 25) **Heyland DK**. Increased cost of health care not all about aging of society. *The Kingston Whig Standard*, Kingston, ON. November 30, 2011.

- 26) Manzanares W, Heyland DK. Pharmacconutrition with arginine decreases bacterial translocation in an animal model of severe trauma. Is a clinical studied justified? .... The time is now! Crit Care Med. 2012 Jan;40(1):350-2. (PMID: 22179379).
- 27) McClave S, **Heyland DK**, Martindale RG. Adding supplemental parenteral nutrition to hypocaloric enteral nutrition: Lessons learned from the Casaer Van den Berghe Study. JPEN J Parenter Enteral Nutr 2012;36(1):15-17.
- 28) Reynolds SC, Muscedere J, Shorr AF, **Heyland DK**, Jiang X. How about the impact of treatment on procalcitonin dynamics? The authors reply. Crit Care Med 2013;41(4):e36-7.
- 29) **Heyland DK**, Dhaliwal RD. Role of glutamine supplementation in critical illness given the results of the REDOXs study. JPEN J Parenter Enteral Nutr 2013;37:442-443.
- 30) **Heyland DK**, Dhaliwal R. Probiotics in the critically ill: a systematic review of the randomized trial evidence. The authors reply. Crit Care Med 2013 Mar;41:e29-30
- 31) Manzanares W, Langlois PL, **Heyland DK**, The role of Alternative Lipid Emulsions in Critically Ill. JPEN 2014 (in press)
- 32) **Heyland DK**, Wischmeyer PE, Day AG, Canadian Clinical Care Trials Group. Glutamine and antioxidants in critically ill patients. N Engl J Med 2013;369:484-485. (PMID: 23902496)

#### Book Chapters

- 1) Schoenfeld PS, **Heyland DK**, Cook DJ. Prokinetic use to facilitate enteral feeding. Intensive Care Year in Review. Springer Verlag. 1996; 241-249.
- 2) **Heyland DK**. Nutritional Support in the Critically Ill Patient: A Systematic Review of the Literature. Critical Care Clinics. WB Saunders; Philadelphia. 1998;423-440.
- 3) **Heyland DK**. A Review of Gut-Specific Strategies to Reduce ICU-Acquired Infections. Current Opinion in Critical Care. Lippincott-Raven; Philadelphia. 1999;5:132-135.
- 4) **Heyland DK**, Koretz R. Merging Evidence-based Medicine and Nutrition Support Practice for Critically Ill Patients: The (Mis)interpretation of Randomized Trials and Meta-analyses. In: Pichard C and Kudsk KA, editors. From Nutrition Support to Pharmacologic Nutrition in the ICU. Springer Verlag; Berlin Heidelberg, Germany 2000;34:461-471.
- 5) **Heyland DK**. Using systematic reviews to inform decision makers. In: Evaluating Critical Care: Using Health Services Research to Improve Quality. Springer Verlag; Berlin Heidelberg, Germany 2000;35:198-208.
- 6) Guyatt G, Cook DJ, Devereaux PJ, Meade M, Straus S, **Heyland DK**. Therapy. In: User's Guides to the Medical Literature: A manual for evidence-based clinical practice. AMA press, Chicago, 2002;55-80.
- 7) Guyatt G, Naylor D, Juniper E, **Heyland DK**, Jaeschke R, Cook DJ. Therapy and Understanding the Results: Quality of Life. In: User's Guides to the Medical Literature: A manual for evidence-based clinical practice. AMA press, Chicago, 2002;309-327.
- 8) O'Brien B, Drummond M, Richardson WS, Levine M, **Heyland DK**, Guyatt G. Moving from Evidence to Action: Economic Analysis. In: User's Guides to the Medical Literature: A manual for evidence-based clinical practice. AMA press, Chicago, 2002;621-644.



- Principal Investigator: **DK Heyland**  
In collaboration with The Canadian Critical Care Trials Group  
Funding: \$172,750 from Ross Division, Abbott Laboratories
- 1994-1996 Economic evaluations in the critical care literature: Do they help us solve the problem?  
Principal Investigator: **DK Heyland**  
Co-investigators: DJ Cook, A Gafni, P Kernerman.  
Funding: \$1,850 from Upjohn
- 1994 Economic evaluation of stress ulcer prophylaxis in the critically ill.  
Principal Investigator: **DK Heyland**  
Co-investigators: DJ Cook, A Gafni.  
Funding: \$1,500 from Regional Medical Associates
- 1996-1998 The Impact of Invasive Diagnostic Techniques in Critically Ill Patients with a Clinical Suspicion of Pneumonia: A Prospective Cohort Study.  
Principal Investigators: **DK Heyland**, DJ Cook.  
In collaboration with The Canadian Critical Care Trials Group  
Funding: \$4,800 from Ontario Lung Association and Boston Scientific Corporation
- 1996-1998 Comparison of Option One and a Polymeric Enteral Feeding: Effect on Length of Stay and Clinical and Immune Parameters.  
Co-Investigator: **DK Heyland**  
Funding: \$77,563 from Ross Division, Abbott Laboratories.
- 1996-1998 Assessment of Patient Preferences and Public Willingness to Pay for Critical Care Services.  
Principal Investigators: **DK. Heyland**, A. Gafni.  
Co-Investigators: J Tranmer, S Taylor.  
Funding: \$20,000 from Department of Medicine, Queen's University
- 1997-1999 "Clinical Decision Making Around End of Life Issues: The Patient's, Nurse's, and Physician's Perspective."  
Principal Investigators: **DK Heyland**, S Squires, J Tranmer, A Gafni.  
Funding: \$10,000 from Oncology Nursing Foundation.
- 1997-1999 The Incidence of Pulmonary Aspiration of Enteral Feeds: A Randomized Trial of Gastric vs. Small Bowel Feeding."  
Principal Investigators: **DK Heyland**, J Drover, S MacDonald.  
Funding: \$15,000 from Physicians Services Inc.
- 1997-2001 Decisional Responsibility and Information Needs of Seriously Ill Hospitalized Patients.  
Principal Investigators: **DK. Heyland**  
Co-Investigators: JTranmer, D Dudgeon, S Taylor, E Kauffmann, M Brundage, D Feldman-Stewart, H Munby  
Funding: Social Sciences and Humanities Research Council Post-Doctoral Fellowship.
- 1997-1998 Non-Invasive Positive Pressure Ventilation: A Clinical Outcomes Monitoring Project.  
Principal Investigators: **DK Heyland**.  
Co-Investigators: W Haddara, R Wigle, A Leach, C Phillips  
Funding: \$5,000 from Puritan Bennet.
- 1997-1999 Long-term Health-related Quality of Life in Survivors of Sepsis.  
Principal Investigators: **DK Heyland**.  
Co-Investigators: W Hopman, A Miranda, J Tranmer, M McColl.  
Funding: \$15,000 from Knoll Pharmaceuticals

- 1998-2008 A Randomized Trial of Empiric Broad-Spectrum Antibiotics and Invasive Diagnostic Techniques in the Setting of Ventilator-Associated Pneumonia.  
Principal Investigator: **DK Heyland**.  
Co-Investigators: from the Canadian Critical Care Trials Group.  
Funding: \$75,000 from Bayer Pharmaceuticals, \$96,000.00 from PSI \$100,000 AstraZeneca and \$2,006,436 from Canadian Institutes of Health Research.
- 1998-2001 The Relationship Between Symptom Distress, Fatigue and Decisional Responsibility in Seriously ill Hospitalized Patients Near the End of Life: A Prospective, Longitudinal Study.  
Principal Investigator: JE Tranmer, **DK Heyland**.  
Co-Investigators: Coulson K, Squires-Graham M.  
Funding: \$10,000 Canadian Nurses Foundation, \$5,300 from Clare Nelson Bequest Fund
- 1998-2000 Epidemiology of Dying in Ontario: A Starting Place for Reform.  
Principal Investigator: **DK Heyland**.  
Co-Investigators: Tranmer J, Lavery J, Shortt S.  
Funding: \$17,800 from Physician Services Inc.
- 1998-2000 The Effect of Antibiotic-Coated Catheters on the Ecology of an Intensive Care Unit: A Prospective Study.  
Principal Investigator: **DK Heyland**, D Zoutman.  
Co-Investigators: Drover J, Wright F.  
Funding: \$12,000 from Cook Canada.
- 1999-2001 Satisfaction with Care in the Intensive Care Unit: An Assessment of the Family's Perspective.  
Principal Investigator: **DK Heyland**.  
Co-Investigators: Peters S, Cook D, Rocker G, Dodek, P.  
Funding: \$20,000 from Canadian Intensive Care Foundation.  
\$11,333.00 from QEII Research Foundation
- 1999-2000 Confirmation of Feeding Tube Placement in ICU Patients using Capnography.  
Principal Investigator: Kindopp S.  
Co-Investigators: **DK Heyland**, Drover J.  
Funding: \$3,500 KGH Foundation.
- 2000-2008 Improving the Quality of End of Life Care in Canada.  
Principal Investigator: **DK Heyland**.  
Co-Investigators: Tranmer J, Taylor S, Shortt S, Lam M, Gafni A, Kutsigiannis J, Dodek P, Rocker G, Feldman-Stewart D, Lazar N.  
Funding: \$266,441 from NHRDP
- 2001-2002 Current Nutrition Support Practice in the Critical Care Setting Across Canada  
Principal Investigator: **DK Heyland**.  
Co-Investigators: Drover J, Keefe L.  
Funding: \$50,000 from Nestle Corporation, \$10,000.00 from BYK
- 2001-2010 Waveform Abnormalities of the aPTT in Critically ill Hospitalized patients (WATTCH Study)  
Principal Investigator: **DK Heyland**, Rapson D.  
Co-Investigators: Howes D, Lord J.  
Funding: \$1,356,800.00 from bioMerieux

- 2001-2002 A Proposal to Develop a Multidisciplinary National Research Agenda Related to Nutrition Support in the Adult Critical Care Setting  
Principal Investigator: **DK Heyland**.  
Funding: \$15,000 from Nestle, \$15,000 from Abbott Laboratories and \$20,000 from Canadian Institutes of Health Research
- 2001-2002 Burden of illness in thromboembolism (BITEC) study  
Principal Investigator: DJ Cook  
Co-Investigators: M Meade, G Guyatt, R Hodder, **DK Heyland**,  
C Martin, J Marshall, R Patel, G Mehta, D Mazer, J Granton, D Mazer  
Funding: \$20,000 from Pharmacia, Inc, \$4500 from Ontario Thoracic Society (Queen's University), \$4,458 from Ontario Thoracic Society (McMaster University), \$8,420 from Capital Heath Research Fund, and \$10,200 from PSI.
- 2002-2008 Long-term Follow Up of Survivors of Sepsis  
Principal Investigator: **DK Heyland**  
Funding: \$159,480 from Eli Lilly Canada, Inc.
- 2002-2010 Improving the Quality of End of Life Care in Canada: A Longitudinal Follow-Up Study  
Principal Investigator: **DK Heyland**.  
Co-Investigators: Tranmer J, Frank C, Groll D, Pichora D  
Funding: \$167,584 from Physician Services Inc.
- 2002-2009 A Multidisciplinary Research Training Program in Digestive Sciences  
Principal Investigator: W. Patterson  
Co-Investigators: **DK Heyland**, B Depew, S Vanner, H MacDonald, M Szewczuk, N Martin, LR DeCosta, C Hill, J Morris, C Barajas-Lopez, M Blennerhassett  
Funding: \$1.8 million from Canadian Institutes of Health Research
- 2002-2005 Developing an Integrated, Team Approach to Hospice Palliative Care  
Principal Investigator: M. Anderson, K. Parent.  
Co-Investigators: **DK Heyland**, J Napper, S Donaldson.  
Funding: \$141,000 from Canadian Health Services Research Foundation
- 2002-2005 The Relationship between insulin resistance, coagulation, inflammation and clinical outcomes in critically ill patients  
Principal Investigator: **DK Heyland**  
Co-Investigators: Farzad Saberi, Dilys Rapson and Khusheed Jeejeebhoy  
Funding: \$20,000 from Canadian Intensive Care Foundation
- 2002-2005 A randomized trial of a multifaceted strategy to implement nutrition support practice guidelines in the ICU setting.  
Principal Investigator: M Jain  
Co-Investigators: **DK Heyland**, John Drover, Rupinder Dhaliwal  
Funding: \$18,000 SEAMO, Queen's University and \$24,000 from Canadian Intensive Care Foundation
- 2002 End of Life/Palliative Care: Planning for a Quality Finish. A Multidisciplinary National Research Workshop.  
Principal Investigator: **DK Heyland**  
Co-Investigator: G Rocker  
Funding: \$50,000 from Canadian Institutes of Health Research. 1 yr
- 2003-2007 Primary Care Management/Action Plans for Advanced Chronic Diseases (The RoadMAP Project).  
Principal Investigator: M Godwin, J Tranmer

- Co-Investigators: **DK Heyland**, and others  
Funding: \$460,000 from Primary Health Care Transition Fund, Ministry of Ontario.
- 2003-2006 A Prospective Randomized Trial Comparing the Effectiveness of Post-pyloric Placement of a Standard Enteral Feeding Tube (Entriplex) Versus a Frictional Feeding Tube (Tiger Tube) in an ICU Setting.  
Principal Investigators: **DK Heyland**, A Samis, J Drover  
Co-Investigators: C D'Arsigny, M Jain  
Funding: \$14,250 from Clinical Teacher's Association at Queen's Endowment fund
- 2003-2006 Optimizing the dose of glutamine dipeptides in critically ill patients. A phase I dose finding study of glutamine supplementation in critically ill patients.  
Principal Investigator: **DK Heyland**  
Co-Investigators: J Drover, M Jain  
Funding: \$58,000 from Fresenius-Kabi
- 2004-2012 Understanding and improving communication and decision-making at the end of life. A new emerging team grant  
Principal Investigator: **DK Heyland**  
Co-Investigators: DJ Cook, A Gafni, MK Giacomini, DR Kuhl, JE Tranmer  
Funding: \$1,325,640 from Canadian Institutes of Health Research & Heart & Stroke Foundation.
- 2004-2007 Clinical Practice Guidelines in the Intensive Care Unit: A Canadian Survey  
Principal Investigator: T Sinuff  
Co-Investigators: D Cook, M Meade, **DK Heyland**, P Dodek, S Keenan, G Rocker, J Hutchison, G Ellrodt  
Funding: \$24,907 from Hamilton Health Sciences New Investigator Fund Grant, Canadian Intensive Care Foundation.
- 2004-2010 Family caregiving in palliative and end-of-life care: A new emerging team  
Principal Investigator: KI Stajduhar, SR Cohen  
Co-Investigators: NL Chappell, **DK Heyland**, PM Koop, AM Williams  
Funding: \$1,346,620 from Canadian Institutes of Health Research. 5 yr
- 2004-2010 Reducing deaths due to oxidative stress. The REDOXS<sup>®</sup> Study. A randomized trial of glutamine and antioxidant supplementation in critically ill patients.  
Principal Investigator: **DK Heyland**  
Funding: \$370,000 from Fresenius-Kabi; \$10,000 from the Clinical Teachers Association of Queens, and \$4,798,496 from Canadian Institutes of Health Research.
- 2004-2012 A randomized controlled trial comparing jejunal and gastric nutritional support in critically ill patients.  
Principal Investigator: AR Davies  
Co-Investigators: R Bellomo, DJ Cooper, GS Doig, SR Finfer, **DK Heyland**  
Funding: \$138,859 CDN from Australian and New Zealand Intensive Care Foundation
- 2004-2009 Long term follow up health-outcomes evaluation of venticute in patients with pneumonia or aspiration of gastric contents leading to intubation, mechanical ventilation, and severe oxygenation impairment (VALID Study).  
Principal Investigator: **DK Heyland**  
Funding: \$812,610 from ALTANA Pharma
- 2004-2007 "Reasoning in Ethics: Surveying Perspectives in EOL among Canadian Trainees (RESPECT study)"  
Principal Investigator: Y Skrobik

- Co-Investigators: **DK Heyland**, D Cook, G Rocker, T Gorman, S Ahern  
Funding: \$50,000 from CARENET
- 2004-2007 Facilitating guideline adherence in the intensive care unit.  
Principal Investigator: Sinuff T  
Co-Investigators: D Cook, **DK Heyland**, P Dodek, M Giacomini  
Funding: \$36,000 from PSI
- 2005 The Canadian Critical Care Trials Group. Re-engineering for the next decade.  
Principal Investigator: Cook D  
Co-Investigators: J Marshall, P Hebert, **DK Heyland**, M Meade, J Hutchison, K Menon, G Rocker, P Dodek, C Doig, R Ward, B Winston  
Funding: \$50,000 from CIHR (New Frontiers Program Development Grant)
- 2005-2013 Intensive Care Unit Patient Safety Team.  
Principal Investigators: P Dodek, N Ayas  
Co-Investigators: D Chittock, S Keenan, **DK Heyland**, S Sheps, M Fitzgerald, S Robinson  
Funding: \$497,160 from Michael Smith Foundation
- 2005-2013 The relationship between organizational culture and family satisfaction in critical care  
Principal Investigator: P Dodek  
Co investigators: **DK Heyland**, D Cook, G Rocker, J Kutsogiannis  
Funding: \$197,428 from Canadian Institutes of Health Research
- 2005-2007 Evaluation of the Associated Medical Services Fellowship in End of Life Care.  
Principal Investigator: **DK Heyland**  
Co investigators: C Schroder.  
Funding: Associated Medical Services \$275,000; CARENET \$50,000.
- 2005-2012 Measuring the Quality of End of Life Care Provided in Inpatient Health Care Settings  
Principal Investigator: KI Stajduhar  
Co investigators: H Cook, DE Allan, **DK Heyland**, D Bidgood.  
Funding: \$113,306 from Michael Smith Foundation for Health Research
- 2005-2013 Active Observational Study of the Adoption and Transfer of Clinical Practice Guidelines through Education, for Ventilator Associate Pneumonia (ABATE) VAP Study  
Principal Investigator: J Muscedere  
Co investigators: T Sinuff, P Dodek, **DK Heyland**, D Cook, R Bouali, Z Punja, B Morgan, K Eva, L Hand,  
Funding: \$360,000 from CIHR, \$80,000 received from Bayer, \$200,000 from Astra Zeneca
- 2005-2009 Survival Using Glucose Algorithm Regulation (SUGAR)  
Principal Investigator: D Chittock  
Co investigators: J Ronco, B Henderson, D Cook, P Hebert, **DK Heyland**, S Finfer S, Myburgh J, Norton R, McArthur C  
Funding: \$3,038,414 from Canadian Institutes of Health Research
- 2005 Knowledge Transfer in the ICU Through a Behaviour Change Strategy for Ventilator Associated Pneumonia  
Principal Investigator: J Muscedere  
Co investigators: P Dodek, T Sinuff, M Squires, D Reeleder, **DK Heyland**, D Cook  
Funding: CIHR approved, funding refused due to overlap with ABATE grant

- 2006 Evaluation of family satisfaction, organizational culture and quality of care in the step down units and enhanced care unit  
Principal Investigator: J Muscedere  
Co investigators: **DK Heyland**, C McColl, M Squires, J Drover  
Funding: \$20,000 Queen's Department of Medicine
- 2007-2010 Critical Care Nutrition Goes Global  
Principal Investigator: **DK Heyland**  
Funding: \$150,000 from Nestle, \$71,780 from Fresenius Kabi, \$15,000 from Queen's University, \$30,000 from Kingston General Hospital Research, \$150,000 from Ontario Ministry of Research and Innovation
- 2007-2010 Determining the Validity of a Novel Questionnaire to Measure Satisfaction with End of Life Care in Canada  
Principal Investigator: **DK Heyland**  
Co investigators: D Cook, P Dodek, J Kutsogiannis, G Rocker, Y Skrobik  
Funding: \$162,352 from Canadian Researchers at the End of Life Network (CARENET)
- 2008-2010 Optimizing Nutrition Therapy in the Intensive Care Unit: Development of a Screening Questionnaire and an Education Toolkit  
Principal Investigator: R Dhaliwal  
Co investigators: N Jones, **DK Heyland**  
Funding: \$15,000 Canadian Foundation of Dietetic Research (CFDR)
- 2008 Knowledge Synthesis of Implementation Strategies for Critically Ill Patients (The KRITICAL Study)  
Principal Investigator: T Sinuff, A Garland, J Muscedere  
Co investigators: D Cook, **DK Heyland**, P Dodek, et al.  
Funding: \$99,500 from Canadian Institutes of Health Research
- 2008 Aging and critical care: Building a National Multidisciplinary Research Program  
Principal Investigator: **DK Heyland**  
Funding: \$19,000 from Canadian Institutes of Health Research
- 2008-2012 Effects of commensal gut flora on c. difficile colitis  
Principal Investigator: E Petrof  
Co investigators: **DK Heyland**, R Liao  
Funding: \$30,000 from Queen's Research Initiation Grant
- 2008-2009 Efficacy of aggressive protein-energy provisions via the enteral route in critically ill patients (PEP uP Protocol): A single center feasibility trial  
Principal Investigator: **DK Heyland**  
Funding: \$10,000 from FHS Foundation Funds, Queen's U/Kingston General Hospital
- 2009-2016 Realities, Expectations and Attitudes to Life Support Technologies in Intensive Care for Octogenarians: The REALISTIC 80  
Principal Investigator: **DK Heyland**  
Co investigators: D Cook, P Dodek, Rocker G et al.  
Funding: \$800,444 from Canadian Institutes of Health Research
- 2009-2016 Effects of enteral glutamine supplementation on mortality, infectious morbidity in severely burned patients: a multi-center trial (RE\_ENERGIZE)  
Principal Investigator: D Garrel, P Wischmeyer  
Co investigator: **DK Heyland**, A Armour, J Bernier, S Rinfret  
Funding: \$524,977 from CIHR, \$530,000 from the American Burn Association, 100,000 from CIHR

- 2009-2014      PERFormance Enhancement of the Canadian nutrition guidelines by a Tailored Implementation Strategy: The PERFECTIS Study  
Principal Investigator: **DK Heyland**  
Co investigators: NE Jones, R Dhaliwal  
Funding : \$124,503 from the AFP Innovation Fund
- 2009-2014      Candida in respiratory tract secretions of critically ill patients and efficacy of treatment (the CANTREAT Study): A prospective, randomized, double blind, placebo controlled pilot study.  
Principal Investigator: **DK Heyland**, J Muscedere  
Co-investigators: C Martin, C Rotstein, G Rubenfeld, S Haider, J Friedrich  
Funding: \$150,000 from Physicians' Services Incorporated Foundation, \$16,000 from William Spears Foundation, \$250000 from Pfizer
- 2009            Advance care planning  
Principal Investigator: **DK Heyland**  
Funding: \$3,000 from CIHR, Café Scientifique Partnership Program
- 2010            Developing a research agenda for advance care planning in Canada.  
Principal Investigator: L Harvey  
Co-investigators: **DK Heyland**  
Funding: \$25,000 from CIHR, \$7,100 from CHPCA
- 2010            Knowledge transfer for family caregiving in P/EOL care  
Principal Investigator: R Cohen  
Co-investigators: K Stajduhar, **DK Heyland** et al.  
Funding: \$40,000 from CIHR
- 2010            Improving end-of-life care in Canada through dissemination of a novel satisfaction questionnaire.  
Principal Investigator: **DK Heyland**  
Co-investigators: S Baxter, N Paul  
Funding: \$39,924 from CIHR
- 2010-2017      Randomized trial of supplemental parenteral nutrition in under and over weight critically ill patients: The TOP UP pilot trial.  
Principal Investigator: **DK Heyland**  
Co-investigators: L Gramlich et al  
Funding: \$25,000 from Canadian Intensive Care Foundation (CICF), \$130,000 from Baxter
- 2010-2016      Outcomes manager to improve adherence to best practices in critical care.  
Principal Investigator: Ilan R  
Co-investigators: **DK Heyland**, Muscedere J  
Funding: \$123,433 from AFP Innovation Fund, Queens University/Kingston General Hospital
- 2010-2013      Video-based study of communication during handovers: how do intensive care physicians use SBAR?  
Principal Investigator: Ilan R  
Co-investigators: Cohen D, LeBaron C, **DK Heyland**, Christianson M.  
Funding: 25,400 from PSI Foundation.
- 2010-2016      FOILED: Fish oil optimal dose determination study  
Principal Investigator: DK Heyland

- Funding: \$67,000 from Fresenius Kabi
- 2010-2013 A multicenter, cluster randomized trial of enhanced protein-energy provision via the enteral route feeding protocol in critically ill patients: The PEP uP protocol.  
Principal Investigator: **DK Heyland** /N Cahill  
Funding: \$672,364 from Nestle
- 2010 Hello Doctor? New tools for improving communication between seriously ill patients, families and health care professionals  
Principal Investigator: **DK Heyland**  
Co-investigators: J Muscedere  
Funding: \$3,000 from CIHR
- 2011- Advance care planning evaluation in elderly patients: a multicenter, prospective study: The ACCEPT Study  
Principal Investigator: **DK Heyland**  
Co-investigators: C Frank, R Ilan, C Smith, P Wattam, D Barwich, S Baxter, S Bagshaw, A Day, et al  
Funding: \$115,000 from SEAMO AHSC-AFP Innovation Fund; \$16,000 received "in-kind" from CHPCA; \$333,418 from CIHR, \$125,000 received from AFP Innovation Fund, \$135,000 from Alberta Innovates Health Solutions
- 2011 Moving the research agenda for advance care planning forward in Canada (meeting grant).  
Principal Investigator: S Baxter, **DK Heyland**  
Co-investigator: A Johnson  
Funding: \$22,500 from CIHR
- 2011 Relationship between lean muscle mass, nutritional adequacy and outcome in trauma.  
Principal Investigator: R Kozar.  
Co-investigators: M Mourtzakis, CE Wade, GM Press, DB Dyer, **DK Heyland** et al  
Funding: \$11,000 from University of Texas Aging Consortium
- 2011-2015 Clinical Practice guidelines for ventilator associated pneumonia  
Principal Investigator: J Muscedere  
Co-investigators: T Sinuff, P Dodek, **DK Heyland**, D Cook, et al.  
Funding: \$99,079 from CIHR
- 2011-2016 OPTICS study: OPTimal nutrition and mobilization by Informing and Capacitating family members of best practices.  
Principal Investigator: Andrea Marshall  
Co-Investigator: **DK Heyland**, N Cahill  
Funding: \$20,000 from Australian College of Critical Care Nurses.
- 2011-2016 Technology evaluation in the elderly network (TECH VALUE NET)  
Scientific Director: **DK Heyland**  
Co-investigators: Gramlich L, Mourtzakis M et al.  
Funding: \$23,888,157 from Network Centers of Excellence, cash/in-kind contributions \$21,409,646 from other partners.
- 2011-2016 Decision-making about goals of care for hospitalized medical patients: A prospective, multicentre study. The DECIDE Study  
Principal Investigator: **DK Heyland**, J You  
Co-investigators: M Albert, N Bandrauk, A Day, Irfan D, J Downar et al  
Funding: \$217,486 received from CIHR

- 2011 Randomized controlled trial of the meaning-making intervention (MMi) in patients newly diagnosed with advanced cancer: a pilot study  
Principal Investigator: M Henry, R Cohen  
Co-investigators: L Azoulay, G Batist, W. Gotlieb, **DK Heyland** et al.  
Funding: \$100,000 received from CIHR
- 2011-2016 Canadian Critical Care Knowledge Translation Network (CCCKTN)  
Principal Investigator: Muscedere J  
Co-investigators: **DK Heyland**, et al.  
Funding: \$599,611 received from CIHR, in-kind contributions \$455,400
- 2011 Inhibit the progression of arterial calcification with vitamin K in hemodialysis patients: The iPACK-HD Study  
Nominated Principal Applicant: Holden R  
Co-Principal Applicant and coordinating investigator: **DK Heyland**  
Co-Investigators: Day A, Moist L, Tobe S et al.  
Funding: \$87,000 from AHSC AFP Innovation Fund, \$100,000 from CIHR
- 2012-2017 Supplemental parenteral nutrition to reduce death in malnourished ICU patients.  
Co-Principal Investigator: P Wischmeyer, **DK Heyland**  
Co-investigators: K Kudsk, R Martindale, R Stapleton.  
Funding: \$600,000 received from NIH
- 2012 Prospective audit of parenteral nutrition in high-risk hospitalized surgical patients in Canada. Fellowship – Total Parenteral Nutrition (SHOPP)  
Principal Investigator: Rahman, A  
Co-investigators: **DK Heyland**, Armstrong D  
Funding: \$55,000 received from CIHR
- 2012 A Systematic and Methodological Review of Neuromuscular Electrical Stimulation in the Intensive Care Unit  
Principal Investigator: Cook D  
Co-investigators: Kho M, Duffett M, Koo K et al.  
Knowledge User: **DK Heyland**  
Funding: \$99,996 received from CIHR
- 2012-2016 Family-Reported Experiences Evaluation (FREE) Study: evaluation of families' satisfaction with adult critical care services in the NHS.  
Principal Investigator: Rowan K  
Co-investigator: **DK Heyland**  
Funding: \$844,590 received from NIHR Health Services and Delivery Research programme
- 2012-2016 Canadian Health Advanced By Nutrition and Graded Exercise CHANGE Health Paradigm (The CHANGE Study)  
Principal Investigator: Jeejeebhoy K  
Coordinating Investigator: **DK Heyland**  
Co-investigators: Bauer P, Mutch D, Tremblay A  
Funding: \$1,352,970 received from St. Joseph's Healthcare Foundation, Hamilton
- 2012-2016 Human Laboratory for the study and treatment of gastrointestinal disorders  
Principal Investigator: Vanner S  
Co-investigators: Paterson W, Allen-Vercoe E, **DK Heyland** et al.  
Funding: \$1,200,000 received from CFI, in-kind contributions \$1,197,245.

- 2013-2016 Shining a light on end-of-life care in Canada: investigating barriers, testing interventions, and disseminating integrated solutions for patients, families and healthcare professionals.  
Principal Investigator: Fowler R  
Collaborator: **DK Heyland**  
Funding: \$187,790 received from University of Toronto
- 2013-2016 Optimal VAsopressor Titration (OVATION) Trial  
Principal Investigators: Lamontagne F, Hebert P  
Coordinating Investigator: **DK Heyland**  
Co-investigators: Meade M, Muscedere J, et al.  
Funding: \$379,078 received from CIHR, \$270,000 received from the Fonds de recherche du Québec (FRSQ).
- 2013-2016 A national comparison of intensity of end-of-life care in Canada: defining changing patterns, risk factors and targets for intervention  
Principal Investigator: Fowler R  
Co-investigators: **DK Heyland**, Kozak JF, Rockwood K et al  
Funding: \$196,186 received from Tech Value Net (TVN)
- 2013-2016 Probiotics: Prevention of severe pneumonia and endotracheal colonization trial (PROSPECT): a feasibility and proof of concept pilot trial.  
Principal Investigator: Cook D  
Co-investigators: **DK Heyland**, Johnston J, Lauzier F et al  
Funding: \$76,370 received from TECH VALUE NET (TVN), \$223,231 received from CIHR, 147,464 received from PSI
- 2013- Advance care planning and goals of Care Alberta: a population based knowledge translation intervention study  
Principal Investigator: Hagen N  
Co-investigators: Simon J, Fassbender K, **DK Heyland**  
Funding: \$2,500,000 received from to Alberta Innovates
- 2013-2017 Nutritional adequacy therapeutic enhancement in the critically ill: A randomized double blind, placebo-controlled trial of the motilin receptor agonist GSK962040. The NUTRIATE Study.  
Sponsor: Glaxo Smith Kline  
Principal Investigator: **DK Heyland**  
Funding: \$2,738,741.50 received from GSK  
Date: Jun 2013 - Jul 2017
- 2013-2014 Improving decision-making about goals of care for hospitalized, elderly patients: A multicentre, interventional study.  
Principal Investigators: **DK Heyland**, You J  
Co-investigators: Barwich D, Day A, Fowler R et al  
Funding: \$24,998 received from CIHR
- 2013- Effect of carnitine supplementation on atherosclerosis  
Co-Principal Investigators: Johri A, **Heyland DK**  
Co-Applicant: Day A  
Funding: \$40,000 received from Queen's University, Department of Medicine, \$266,504 from Heart and Stroke Foundation
- 2013-2015 Does glucose tolerance status modify post-prandial renal phosphorus handling in patients with chronic kidney disease.  
Principal Investigators: Garland, J  
Co-Applicant: **DK Heyland**, Morton AR, Nolan R, Day AG

- Funding: \$32,500 received from Queen's University, Department of Medicine
- 2013- Sodium selenite administration in cardiac surgery (SUSTAIN CSX trial) A pilot randomized controlled trial of high dose sodium-selenite administration.  
Nominated Principal Investigator: **DK Heyland**  
Co-Principal Applicant: McDonald B  
Co-Investigators: Fowler R, Fremes S, Manzanares W et al  
Funding: \$16,000 received from Queen's Dept of Medicine, and CIHR \$232,415
- 2013 Impact of protein delivery on clinical outcomes in ICU patients.  
Principal Investigator: Nicolo M  
Co-Investigator: **DK Heyland**  
Funding: \$4,900 received to ASPEN Rhoads Research Foundation
- 2014- Reassessing practices in the daily care of critically ill patients: opportunities to identify & close evidence care gaps.  
Principal Investigator: Stelfox T  
Co-Investigators: Manns B, Doig C, Zuege D, **DK Heyland**  
Funding: \$748,790 received from PRIHS
- 2014- Enhancing patients' recovery after surgery: strategy to transform care and maximize value  
Principal Applicant: Noseworthy T  
Co-Principal Applicants: Nelson G, Gramlich L  
Collaborators: Kozak S, Zhao Y, **DK Heyland**  
Funding: \$750,000 received from PRIHS
- 2014-2017 Integrating quality of life assessments and best evidence into palliative home care: An integrated knowledge translation study (QPSS)  
Principal Investigator: Sawatzky R  
Co-investigators: Taylor C, Cohen R, **DK Heyland** et al  
Funding: \$100,000 received from TVN,
- 2014- Improving general practice advance care planning. The i-GAP Study  
Nominated Principal Applicant: **DK Heyland**  
Co-Principal Applicant: Howard M  
Principal Knowledge Users: Slavens M, Bernard C  
Funding: Received \$599,904 from TVN, in kind \$191,200; received \$1,045,981/3yrs from MOH, in kind \$174,550; received \$399,943 from CIHR, in kind \$254,462
- 2014- Promoting Health of Older Adults through CHANGE Technology  
Principal Applicant: Klein D  
Co-investigators: Khursheed J, **DK Heyland**, McCabe C et al  
Funding: \$92,112 from CIHR.
- 2014- An evaluation of the CHANGE lifestyle intervention in primary care.  
Principal Applicant: Klein D  
Co-investigators: Khursheed J, **DK Heyland**, McCabe C et al  
Funding: \$100,000 bridge funding from CIHR.
- 2014- DECision-making about goals of care for hospitalized medical patiEnts II a COMMUNICATion intervention (DECIDE II COMMUNICATE): Patient data collection and feedback pilot  
PI: Downar J  
Co-Investigators: Macdonald J, Harwick M, Myers J, Roze des Ordons A, **DK Heyland**, You J et al

Funding: TVN \$79,675

- 2014- Improving DECISION-making about goals of care for hospitalized, eLDERly patiENTS: a multi-incubator unit study (iDECIDE)  
PI: You J  
CO-Investigator: **DK Heyland**, et al  
Funding: \$504,246/2 years from TVN; \$302,670/2 years in-kind.
- 2014-2015 DECISION-making about goals of care for hospitalized, eLDERly patiENTS: in heart failure pts (DECIDE HF)  
Principal Investigators: You J  
Co-Applicant: H Ross  
Co-Investigators: J MacIver, J Downar, C Demers, PStrachan, R Fowler, **DK Heyland**, A Day, NGiannetti, BClarke, SZeiroth, L Mielniczuk, M Toma, A Ducharme  
Funding: \$70,000 1 year Bridge Funding Heart & Stroke
- 2014-2015 A comprehensive evaluation of nutritional status in critically ill patients after extubation  
Principal Investigator: Moisey L  
Co-Investigators: Mourtzakis M, Keller H, Rahman A, **DK Heyland**  
Funding: \$19,460 Canadian Foundation for Dietetic Research
- 2015- Promotion of Regular Oesophageal motility to Prevent regurgitation and Enhance nutrition intake in Long-stay ICU patients. A multicenter, Phase II, sham-controlled, randomized trial. The PROPEL Study  
Sponsor: E-Motion Medical Ltd.  
CERU Budget: \$1,767,574.74  
Funding: \$2,239,473  
Date: Jul 2015 - Jun 2017
- 2015- A RandomizED trial of ENtERal Glutamine to minimize thermal injury: (The RE-ENERGIZE Study)  
Principal Investigator: **Heyland DK**  
Co-Investigators: Day A, Garrel D, Henderson W, Jeschke M, Johnson A, Logsetty S, Perreault I, Stelfox T, Turgeon A, Wibbenmeyer L, Wischmeyer P  
Funding: \$5,659,300 CIHR  
Program: Transitional Operating Grant 2014-2015  
Date: Sep 2015 - Sep 2020
- 2015- Inhibit Progression of coronary Artery Calcification with vitamin K in HemoDialysis patients: The iPACK HD Study  
Principal Investigator: Holden R, **Heyland DK**  
Co-Applicants: Adams M, Booth S, Clase C, Day A, Jamal S, Shea K, Weiner D, Zimmerman D  
Funding: \$321,747 CIHR  
Program: Transitional Operating Grant 2014-2015  
Date: Jul 2015 - Jun 2018
- 2015- An evaluation of the CHANGE lifestyle intervention in primary care  
Principal Investigator: Klein D, **Heyland D**  
Co-Investigators: Taylor L, Gramlich L, Reichert S, McCabe C, Green L, Sharma A, Denise Campbell-Scherer D, Jeejeebhoy K, Day A  
Funding: \$100,000 CIHR  
Program: Operating Grant - PA: INMD Start-up Funds  
Date: Jul 2015 - Jun 2016

- 2015- Randomized Controlled Trial of the Meaning-Making Intervention in People Newly Diagnosed With Advanced Cancer: Full Trial  
Principal Investigator: Henry M  
Co-Applicant: Cohen R  
Co-Investigators: **Heyland DK**, Platt R, Zhang X, Gotlieb WH, Lau S, Sultane K, Batist G, LaPointe B  
Funding \$683,365 CIHR
- 2015- More-2-Eat: Nutrition care pathway and optimized protein supplementation for malnourished elderly patients.  
Principal Investigators: Heather Keller, Adam Rahman  
Co-investigators: Celia Laur, Barbara Liu, Jack Bell, Paule Bernier, Leah Gramlich, Manon Laporte, Don Duerksen, Sumantra Ray, Pauline Douglas, Lori Curtis; Marko Mrkobrada, **Daren Heyland**, Mondipa Dasgupta, Phil St. John  
Collaborator: Joel Dubin, Marina Mourtzakis, Richard Sawatzky, Alies Maybee, Khursheed Jeejeebhoy Knowledge User: Sarah Robbins, Linda Dietrich, Lorrie Plein  
Competition: Strategic Impact Grant, 2014  
Funding: \$899,963 Technology Evaluation for the Elderly Network  
Date: May 2015 – April 2017
- 2016- Sodium selenite administration in cardiac surgery (SUSTAIN CSX trial)  
Nominated Principal Investigator: **Heyland DK**  
Co-Principal Applicant: Stoppe C, McDonald B  
Funding: \$2,983,447 Lotte & John Hecht Memorial Foundation  
Date: Jan 2016 – Aug 2020
- 2016- Development and Evaluation of a Family-Partnered Care Pathway for Critically Ill Older Patients  
Principal Investigators: Stelfox HT, **Helyand DK**  
Co-Applicants: Allatt P, Au S, Berg B, Cohen R, Coyle D, Day A, Downar J, Ely W, Fiest K, Gramlich L, Grant C, Harries B, Hartwick M, Holroyd-Leduc J, Jenkins J, Kyeremanteng K, Mourtzakis M, Niven D, Oczkowski S, Papathanasoglou E, Parsons Leigh J, Potestio M, Rahman A, Rockwood K, Roze des Ordons A, Shaw M, Sinclair S, Sinuff T, Skrobik Y, Stajduhar K, Straus S, Thavorn K, Turgeon A, Vandall-Walker V, Knowledge Users: Boucher P, O'Neill B, Robertson D, Wickson P, Zygun D, Co-Investigators: Oxland P, Doig C, Eisenstat M, Foster N, Stewart L, Debigare S, Harvie R, Hatcher C, Hruska P, Zjadewicz K, Brummel N, Curtis J, Davidson J, Marshall A, Needham D, Sheppard S, Stapleton R, Turnbull A, Van Scoy LJ, Walsh T  
Funding \$2,130,322 (\$1,388,754 Canadian Institutes for Health Research, \$511,800 Alberta Health Services, \$126, 924 Nestle, \$58, 844 W21C, \$20,000 Society of Critical Care Medicine, \$20,000 Canadian ICU Collaborative, \$4000 Canadian Critical Care Society) CIHR - Team Grant - Late Life Issues  
Date: April 2016 – March 2020
- 2016- Identifying Spiritual Distress in Families of ICU Patients: The INSPIRE Study  
Principal Investigator: Amanda Roze des Ordons  
Co-Investigators: Shane Sinclair, Henry Stelfox, Tasnim Sinuff, **Daren Heyland**  
Knowledge Users: Christopher Doig, David Zygun, Peter Oxland, Caroline Nolan, Blaine Allan, Zinia Pritchard, Patty Wickson  
Funding: \$96,000.00 MSI Foundation  
Date: September 2016 – August 2018
- 2016- Development and Validation of a Patient-Reported Measure of Compassionate Care  
Nominated Principal Applicant: Sinclair S  
Principal Applicant: Sawatzky R, Hack TF

Knowledge User: Barwich D, Baxter S, Chochinov HM, Cory S, Dudgeon D, Embleton L, Forbes H, Garland E, Hagen N, Harlos M, Lechelt L, Leget C, Quail P  
Co-Applicant: **Heyland D**, Krawczyk M, McClement S, Puchalski C, Raffin-Bouchal S, Russell L, Selman L, Singh P, Sinnarajah A, Stajduhar K, Thompson G  
Collaborator: Doucet M, Jajszczok M, Kimel G, Patton M, Wheler B  
Funding \$638,356 CAD CIHR  
Date: September 2017 – August 2021

2017 Improving partnerships with family members of ICU patients. A phase II randomized trial Of two family capacitation strategies.  
Investigators: Marshall AP, **Heyland DK.**, Chaboyer W., Pearson D., Rogerts S.  
Gold Coast Health Research Grants Scheme  
Funding: \$56,930

#### RESEARCH GRANTS SUBMITTED

**Investigator-Initiated Research Activities** **Total Grants in Submission: \$ 3,541,606**

2017-2022 Nutrition and Exercise in Critical illness (The NEXIS Trial); A Randomized Trial of Combined Cycle Ergometry and Amino Acids in the ICU  
Nominated Principal Investigator: Stapleton R.  
Co-Applicant: Needham D., Heyland DK.  
Funding: \$3,541,606 USD NIH

Site Investigator for the following multicenter trials:

- 1) A multicenter, randomized, controlled trial of transfusion requirements in critical care. 1997.  
Funding: \$ 25,250.00
- 2) A centrally randomized, multicenter open trial of intravenous alatrofloxacin followed by oral trovafloxacin, compared with intravenous ceftriaxone to oral cefuroxime axetil with optional intravenous erythromycin to oral clarithromycin and/or intravenous to oral metronidazole or clindamycin for the treatment of community-acquired pneumonia in subjects requiring hospitalization and initial intravenous treatment.  
Funding: \$ 23,968.00
- 3) A randomized, placebo-controlled trial of MAK195F (monoclonal antibody against tumour necrosis factor) in sepsis with hyperinflammatory responses. 1996-1999  
Funding: \$ 420,000.00
- 4) A multicenter, double-blind, randomized, placebo-controlled study of filigastim in the treatment of patients with pneumonia and severe sepsis. 1998-1999  
Funding: \$ 98,084.27
- 5) A randomized, double-blind, multicenter study comparing the efficacy and safety of piperacillin/tazobactam and imipenem/cilistatin administered intravenously every 6 hours to treat nosocomial pneumonia in hospitalized patients. 1999-2000  
Funding: \$42,977.12
- 6) A phase III study to determine the efficacy and safety for recombinant human activated protein C (rhAPC) in severe sepsis. 2000  
Funding: \$67,187.75
- 7) Venticute (rSP-C Surfactant) for the treatment of Acute Respiratory Distress Syndrome (ARDS): A randomized, multinational, multicenter, parallel group, double blind, controlled study. 2000-

- 2001  
Funding: \$55,500.00
- 8) Multicenter, Double blind, Placebo controlled, Randomized, Phase 3 study of tifacogin (Recombinant Tissue Factor Pathway Inhibitor) in Severe Sepsis. 2001  
Funding: \$205,540.90
  - 9) 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  
Funding: \$53,557.78
  - 10) Recombinant Human Activated Protein C Protocol (FIK-MC-EVBF): An Open-label Study of Recombinant Activated Protein C in Severe Sepsis. 2001-2003  
Funding: \$18,318.00
  - 11) Efficacy and safety of drotrecogin alfa (activated) in adult patients with early severe sepsis. 2002-2003  
Funding: \$18,228.00
  - 12) Multicenter, double-blind, study of the efficacy and safety of GAR-936 compared to Imipenem/Cilastatin to treat complicated intra-abdominal infections in hospitalized patients. 2003-2004  
Funding: \$29,073.60
  - 13) Three Dosages in ALI/ARDS versus Standard Therapy (HL10). 2003-2004  
Funding: \$ 25,500
  - 14) Fujisawa Canada Inc. Canadian ICU Infection Survey MYC-001. 2004:  
Funding: \$ 11,000.00
  - 15) A phase 3 multicenter, randomized, placebo-controlled, double blind, three-arm study to evaluate the safety and efficacy of tifacogin (CHIRON CAP). 2004-  
Funding: \$ 33,005.94
  - 16) (VALID) Venticute rSP-C surfactant in patients with pneumonia or aspiration of gastric contents leading to intubation, mechanical ventilation and severe oxygenation impairment (ALTANA). 2004-  
Funding: \$57,238.20
  - 17) A Phase 3, multicenter, randomized, double-blind, comparative study of the efficacy and safety of tigecycline vs imipenem/cilastatin for the treatment of subjects with nosocomial pneumonia: (Wyeth HAP) 3074A1-311-WW 2005  
Funding: \$ 64,122.00
  - 18) A Phase 3, randomized, Double-Blind, Parallel-Group, Multinational Trial of Intravenous Telavancin Versus Vancomycin for Treatment of Hospital-Acquired Pneumonia with a Focus on Patients with Infections Due to Methicillin-Resistant Staphylococcus aureus. (Theravance) 2006-2007  
Funding: \$ 3620.60

**Total funding from Industry-sponsored research activities: \$1,252,172.16**

**XIX. RESEARCH INTERESTS**

Nutrition support, gastrointestinal motility, stress ulcer prophylaxis, and gastrointestinal structure and function in the context of critical illness

Pneumonia, sepsis, and other infections in the critically ill patient.

Randomized trials, systematic reviews and meta-analysis, outcomes assessments, economic evaluations, quality of life assessments, quality of care, satisfaction with care, and health service research.

Evidence-based medicine, patient preferences, end of life care, and clinical decision-making.