

BRIEF CURRICULUM VITAE

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PRESENT ACADEMIC RANK AND POSITION

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

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.

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

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.

EDUCATION – TEACHING

Medical School

Teach Critical Appraisal to 2nd year Medical Students, Queen's University.
Involves 6, 2 hours 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, 2 hours 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.

EDUCATION – JOURNALS

Scientific Reviewer for the Following Journals:
 Journal of the American Medical Association
 Chest
 American Journal of Respiratory and Critical Care Medicine
 Intensive Care Medicine
 Critical Care
 Journal of Palliative Care
 Editorial Board Member of Journal of Critical Care

GRADUATE STUDENT/POSTDOCTORAL FELLOWS WORKING FOR YOU

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

INSTITUTIONAL, DEPARTMENTAL, AND DIVISIONAL ADMINISTRATIVE RESPONSIBILITIES, COMMITTEE MEMBERSHIPS AND OTHER ACTIVITIES

1996-	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-	Director of Research, General Internal Medicine Group
2004-	Head, Division of General Internal Medicine
2005-	Member, Research Committee, Department of Medicine

PROFESSIONAL AND SOCIETY MEMBERSHIPS

1993-	Canadian Critical Care Trials Group
1994-	Canadian Critical Care Society
1995-	Society of Critical Care Medicine
1996-2004	American Society of Parenteral and Enteral Nutrition
2002-2004	Canadian Society for Clinical Nutrition

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.

- 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 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 summer conference.

PUBLICATIONS, PRESENTATIONS, AND FUNDS TO DATE

Invited visiting professorships - 48
Presentations at national meetings - 36
Presentations at international meetings - 99
Intramural presentations - 28
Publications in peer-reviewed journals - 108
Submitted manuscripts - 11
Publications – abstracts, editorials, book chapters - 153
Abstracts submitted - 7
Published letters - 3
Editorials, commentaries, etc. - 18
Book Chapters - 14
Investigator-initiated grants - \$ 21,242,480
Industry-sponsored grants - \$1,163,662.76
Site investigator on research projects – 14

SELECT PUBLICATIONS

Published refereed papers

Heyland DK. Immunonutrition in the critically ill patient: Putting the cart before the horse? Nutrition Clin Pract 2002 17(5):267-272.

Heyland DK, Drover JD, Dhaliwal R, Greenwood J. Optimizing the Benefits and Minimizing the Risks of Enteral Nutrition in the Critically Ill: Role of Small Bowel Feeding. JPEN 2002;26:S51-57.

Heyland DK, Schroter-Noppe D, Drover J, Jain M, Keefe L, Dhaliwal R, Day A. Nutrition support in the critical care setting: Current practice in Canadian ICUs - opportunities for improvement? JPEN 2003;27(Jan-Feb):74-83.

Heyland DK, Dhaliwal R, Drover JW, Gramlich L, Dodek P, for the Guidelines Committee.

Canadian clinical practice guidelines for nutrition support in the adult critically ill patient. JPEN 2003;27(Sep-Oct):355-373.

Martin CM, Doig GS, Heyland DK, Webster G, Morrison T, Sibbald WJ. A multicenter, cluster randomized clinical trial of algorithms for critical care enteral and parenteral therapy (ACCEPT). CMAJ 2004;170(Jan):197-204.

Dhaliwal RD, Jurewitsch B, Harrietha D, Heyland DK. Combination enteral and parenteral nutrition in critically ill patients: Harmful or beneficial? A systematic review of the evidence. Intensive Care Med 2004;30:1666-1671.

Dodek P, Keenan S, Heyland DK, Cook DJ, et al. Evidence-based clinical practice guideline for the prevention of ventilator-associated pneumonia. Ann Intern Med 2004;141(4):305-313.

Gramlich L, Kichian G, Pinilla J, Rodych NJ, Dhaliwal R, Heyland DK. Does enteral nutrition compared to parenteral nutrition result in better outcomes in critically ill adult patients? A systematic review of the literature. Nutrition 2004;20(10):843-848.

Heyland DK, Dhaliwal R, Day A, Jain M, Drover J. Validation of the Canadian clinical practice guidelines for nutrition support of mechanically ventilated patients: Results of a prospective observational study. Crit Care Med 2004;32(11):2260-2266.

Heyland DK, Dhaliwal R, Suchner U, Berger M. Antioxidant nutrients: A systematic review of vitamins and trace elements in the critically ill patient. Intensive Care Med 2005;31(3):327-337.

Dhaliwal R, Heyland DK. Nutrition and infection in the ICU: What does the evidence show? Curr Opin Crit Care 2005;11(5):461-467.

McClave SA, Chang, WK, Dhaliwal R, Heyland DK. Nutrition support in acute pancreatitis: A systematic review of the literature. JPEN 2006;30:143-156.

Jain MK, Heyland DK, Dhaliwal R, Day A, Drover J, Keefe L, Gelula M. Dissemination of the Canadian Clinical Practice Guidelines for nutrition support: Results of a cluster randomized trial. Crit Care Med 2006;34:2362-9.

Heyland DK, Dhaliwal R, Day A, Muscedere J, Drover J, Suchner U, Cook DJ, for the Canadian Critical Care Trials Group. REducing Deaths due to OXidative Stress: The REDOXS© Study: Rationale and study design for a randomized trial of glutamine and antioxidant supplementation in critically ill patients. Proc Nutr Soc 2006;65(3):250-263.

Heyland DK and the Canadian Critical Care Trials Group A Randomized Trial of Diagnostic Techniques for ventilator-Associated Pneumonia N Engl J med 2006 335,25: 2619-2630

Sinuff T, Eva K, Meade M, Dodek P, Heyland DK, Cook D. Clinical practice guidelines in the intensive care unit: A Canadian survey.

In press refereed papers

Heyland DK, Dhaliwal R, Day A, Drover J, Cote H, Wischmeyer P. Optimizing the dose of glutamine dipeptides and antioxidants in critically ill patients: A phase I dose finding study. J Parenter Enteral Nutri 2007.

Published books

McClave SA and Heyland DK. Critical Care Nutrition. In: Textbook of Critical Care. Eds: M Fink, E Abraham, JL Vincent, PM Kochanek. Elsevier Saunders, Philadelphia, 2005;939-950.

Published abstracts

Dhaliwal R, Heyland DK, Day A, Jain M, Keefe L, Drover J. Hyperglycemia Kills! Opportunities for

quality improvement in ICUs in Canada. Toronto Critical Care Medicine Symposium, Oct 28- Nov 1, 2003.

Jain M, Heyland DK, Dhaliwal R, Day A, Keefe L, Drover J. An update: A national survey of nutrition support practices. *Nutrition in Clinical Practice* 2004;19(1):98. N079

Drover J, Dhaliwal R, Day A, Jain M, Keefe L, Heyland D. Utilization of parenteral nutrition in Canadian intensive care units: Opportunities for improvement? . *Intensive Care Medicine* 2004; 30(S1):A571.

Dhaliwal R, Heyland DK, Su Y, Day A. Utilization of nutrition support in Canadian ICUs: Opportunities for improvement? Abstracts of the 28th Congress of ESPEN 2006;31:P0010.

In Press Abstracts

Sinuff T, Dodek P, Meade M, Heyland DK, Keenan SP, Rocker G, Cook DJ. Clinical practice guidelines in the ICU: A Canadian survey of physicians and nurses. (TRIPP) Conference, Washington, DC., July 10-13, 2006. *Critical Care Med* (Dec).

Editorials, commentaries

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.