

Kenton G.Hecker, BSc, MSc, PhD

Assistant Professor, Department of Veterinary and Clinical Diagnostics Sciences,
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RESEARCH INTERESTS AND ACTIVITIES

Key Words: medical education, veterinary education, admissions, curriculum development, program evaluation, psychometrics

Dr. Hecker's research interests include assessment of selection criteria used for health professional schools, assessment of preclinical and clinical veterinary education, development of workplace assessment criteria for clinical competence, and health professional students attitudes to the rural environment.

RESEARCH IN PROGRESS

| <u>ROLE</u> | <u>FUNDING AGENCY</u> | <u>TITLE OF PROJECT</u> | <u>2010/11 ALLOCATION</u> |
|------------------------|--|---|----------------------------------|
| Principal Investigator | University Of Calgary, Faculty Of Veterinary Medicine | <i>Veterinary medicine students' perceptions of the rural environment and veterinary practice: A longitudinal study</i> | 12,000 |
| | University Of Calgary, Faculty Of Veterinary Medicine | <i>The reliability and validity of the veterinary medicine admissions process: A multi institutional longitudinal study</i> | 10,000 |

PUBLICATIONS

Peer-Reviewed Journal Articles

Beran T, **Hecker K**, Coderre S, Wright B, Woloschuk W, McLaughlin K. Ego identity status of medical students in clerkship. *Canadian Medical Education Journal* 2011;2(1):e4-e10.

Fuentealba C, **Hecker K**, Nelson P, Tegzes J, Waldham S. Relationships between admissions requirements and pre-clinical and clinical performance in a distributed veterinary curriculum. *Journal of Veterinary Medical Education* 2011;38(1):52-9.

Hecker K, Read E, Vallevand A, Krebs G, Donszelman D, Freeman S, Muelling C. Assessment of 1st year veterinary student clinical skills using objective structured clinical examinations. *Journal of Veterinary Medical Education* 2010;37(4): 395-402.

Abstracts Published in Conference Proceedings

- Doepel L, **Hecker K**. Is performance in a veterinary nutrition course influenced by previous undergraduate experience? A preliminary analysis. *Proceedings of the North American Colleges and Teachers of Agriculture Conference*, Edmonton, Alberta, June 14-18, 2011.
- Boysen S, Whale C, **Hecker, K**. Evaluation of glucometer readings on whole blood and plasma compared to a laboratory reading of serum glucose in dogs. *Proceedings of the European Veterinary Emergency and Critical Care Society*, Utrecht, Holland, June 10-12, 2011.
- Conlon P, **Hecker K**, Sabatini S. What are the non-academic attributes important for the veterinary profession? The Ontario perspective. *Proceedings of the American Association of Veterinary Medical Colleges Conference*, Alexandria, Virginia, March 11-13, 2011.
- Conlon P, **Hecker K**, Coe J, Bateman S, Cox S. Systematic assessment and feedback in a companion animal primary care rotation. *Proceedings of the American Association of Veterinary Medical Colleges Conference*, Alexandria, Virginia, March 11-13, 2011.
- Hecker K**, Norris J, Beran T, Donnon T. An analysis of a veterinary school MMI: How well do scores predict future student performance? *Proceedings of the American Association of Veterinary Medical Colleges Conference*, Alexandria, Virginia, March 11-13, 2011.
- Conlon P, **Hecker K**, Sabatini S. What are the non-academic attributes important for the veterinary profession? The Ontario perspective. *Proceedings of the Canadian Conference on Medical Education*, Toronto, Ontario, May 7-11, 2011.
- Conlon P, **Hecker K**, Coe J, Bateman S, Cox S. Systematic assessment and feedback in a companion animal veterinary primary care rotation at the Ontario Veterinary College, University of Guelph. *Proceedings of the Canadian Conference on Medical Education*, Toronto, Ontario, May 7-11, 2011.
- Fuentealba IC, **Hecker K**, Illanes OG, Warren AL. Relationship between first year pathology academic performance and admission requirements. *Proceedings of the 2010 ACVP Conference*, Baltimore, Maryland, October 30-November 3, 2010.
- Fernandez NJ, **Hecker K**, Gilroy C, Warren A, Wasko A, Leguillette R. A comparison of methods for performing differential cell counts in bronchoalveolar lavage fluid from horses. *Proceedings of the 2010 ACVP Conference*, Baltimore, Maryland, October 30-November 3, 2010.
- Hecker K**, Adams C. Assessment of 1st year veterinary students communication skills using an OSCE. *Proceedings of the International Conference on Communication in Veterinary Medicine*, Sonoma, California, October 31–November 2, 2010.
- Adams C, **Hecker K**, Coe J. Teaching and assessment of 1st year veterinary students communication skills: Development, delivery and assessment of a first year communication program. *Proceedings of the 2010 AMEE Conference* Glasgow, Scotland, August 29-September 2, 2010.

GRADUATE STUDENT SUPERVISION

Jill Norris, PhD student, Medical Education and Research (Co-Supervisor)

Thesis Topic: Assessing physicians' competencies using the theory of planned behaviour: A preliminary analysis

Hamed Ghamdi: MSc student, Medical Education and Research (Co-Supervisor)

Thesis Topic: Surgical skills development

UNDERGRADUATE STUDENT SUPERVISION

Trevor Seeger, BHSc summer research student, Health Sciences

Project Topic: Veterinary students' perceptions of the rural environment

Trevor Seeger, BHSc-Honours Thesis, Health Sciences (Co-Supervisor)

Project Topic: A meta-analytical comparison of donepezil and rivastigmine in the treatment of traumatic brain injury