Katharine Dianne Currie, Ph.D., CSEP-CEP

BUSINESS ADDRESS

Room 27Q, IM Sports Circle Building
Department of Kinesiology, Michigan State University
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CURRENT EMPLOYMENT

Assistant Professor
Department of Kinesiology
Michigan State University

EDUCATIONAL BACKGROUND

2008 – 2012	Ph.D. (Kinesiology) McMaster University, Hamilton, ON, Canada Supervisor: Dr. Maureen MacDonald Thesis title: **Effects of Acute and Chronic Low-Volume High-Intensity Interval Exercise on Cardiovascular Health in Patients with Coronary Artery Disease**
2006 – 2008	M.Sc. (Exercise Sciences) University of Toronto, Toronto, ON, Canada Supervisor: Dr. Jack Goodman Thesis title: **Effects of Short-Term Endurance Exercise Training on Vascular Function in Young Males**
2002 – 2006	Bachelor of Physical Education & Health (High Honors) University of Toronto, Toronto, ON, Canada

CERTIFICATIONS

2016 – Present	Certified Exercise Physiologist (CEP) Canadian Society for Exercise Physiology
2015 – 2018	Registered Kinesiologist College of Kinesiologists of Ontario Registration Number: 13473

PREVIOUS EMPLOYMENT

09/2017 – 08/2018	Postdoctoral Research Fellow Department of Pediatrics, Faculty of Health Sciences McMaster University
09/2015 – 08/2017	Postdoctoral Research Fellow Faculty of Kinesiology & Physical Education University of Toronto
09/2015 – 05/2016	Sessional Instructor Department of Kinesiology McMaster University
09/2014 – 12/2014	Sessional Instructor School of Kinesiology University of British Columbia
09/2012 – 08/2015	Postdoctoral Research Fellow International Collaboration on Repair Discoveries University of British Columbia
09/2006 – 05/2008	Physical Activity Course Instructor Faculty of Physical Education and Health University of Toronto

HONOURS AND AWARDS

04/2018 – 08/2018	Canadian Institutes of Health Research (CIHR) Fellowship *Closed award early to accept Faculty position*
09/2015 – 08/2017	Canadian Institutes of Health Research (CIHR) Fellowship
01/2014 – 08/2015	Craig H. Neilsen Foundation Postdoctoral Fellowship *Closed award early to accept CIHR Fellowship*
07/2013 – 12/2013	Heart and Stroke Foundation Research Fellowship *Closed award early to accept Craig H. Neilsen Foundation award*
2013	International Collaboration on Repair Discoveries Trainee Travel Award (University of British Columbia)
2012	Graduate Students' Association Travel Grant (McMaster University)
2012	Finalist – Graduate Student Award Canadian Society for Exercise Physiology Annual General Meeting
2012	Finalist – Graduate Student Award Ontario Exercise Physiology Conference
2011 – 2012	The Louis Hotz Ontario Graduate Scholarship

2011	Institute of Circulatory and Respiratory Health Skill Development Travel Award (Canadian Institutes of Health Research)
2011	Graduate Students' Association Travel Grant (McMaster University)
2010 – 2011	Ontario Graduate Scholarship
2010	Institute of Circulatory and Respiratory Health Skill Development Travel Award (Canadian Institutes of Health Research)
2009	Institute of Human Development, Child and Youth Health Travel Award (Canadian Institutes of Health Research)
2006 – 2007	Glenn H. Carter Fellowship in Exercise Intervention and Disease Prevention (University of Toronto)
2006	Dean's Student Leadership Award (University of Toronto) Distinction
2006	Alumni Shield (University of Toronto) Distinction
2006	Gordon Cressy Student Leadership Award (University of Toronto) Distinction

PEER-REVIEWED LIFETIME PUBLICATIONS

(i) Original Articles

1. Au JS, Sithamparapillail A, **Currie KD**, Krassioukov AV, MacDonald MJ, and Hicks AL. Assessing ventilatory threshold in individuals with motor-complete spinal cord injury. *Archives of Physical Medicine and Rehabilitation* 2018; doi: 10.1016/j.apmr.2018.05.015. [Epub ahead of print].

2. Gee CM, **Currie KD**, Phillips AA, Squair JW, and Krassioukov AV. Spinal cord injury impairs cardiovascular capacity in elite wheelchair rugby athletes. *Clinical Journal of Sport Medicine* 2018; doi: 10.1097/JSM.0000000000000561. [Epub ahead of print].

3. Berger MJ, Kimpinski K, **Currie KD**, Nouraei H, Sadeghi M, and Krassioukov AV. Multi-domain assessment of autonomic function in spinal cord injury using an autonomic reflex screen. *Journal of Neurotrauma* 2017; 34(18): 2624-2633.

4. Squair JW, Phillips AA, **Currie KD**, Gee CM, and Krassioukov AV. Autonomic testing for prediction of competition performance in Paralympic athletes. *Scandinavian Journal of Medicine & Science in Sports* 2017; 28(1): 311-318.

5. Shenouda N, Proudfoot NA, **Currie KD**, Timmons BW, and MacDonald MJ. Automated ultrasound edge-tracking software comparable to established semi-automated reference software for carotid intima media thickness analysis. *Clinical Physiology and Functional Imaging* 2017; 38(3): 396-401.

6. **Currie KD***, Sless RT*, Notarius CF, Thomas SG, and Goodman JM. Absence of resting cardiovascular dysfunction in middle-aged endurance-trained athletes with exaggerated exercise blood pressure responses. *Journal of Hypertension* 2017; 35(8): 1586-1593. **Denotes co-first authorship.*

7. Phillips AA, Squair JR, **Currie KD**, Tzeng YC, Ainslie PN, and Krassioukov AV. 2015 ParaPan American Games: autonomic function, but not physical activity, is associated with vascular-cognitive impairment in spinal cord injury. *Journal of Neurotrauma* 2017; 34(6): 1283-1288.

8. West CR, Squair JW, McCraken L, **Currie KD**, Somvanshi R, Yuen V, Phillips AA, Kumar U, McNeill J, and Krassioukov AV. Cardiac consequences of autonomic dysreflexia in spinal cord injury. *Hypertension* 2016; 68(5): 1281-1289.

9. Cotie LM, **Currie KD**, McGill G, Cameron AJ, McFadden AS, Phillips SM, and MacDonald MJ. Associations between measures of vascular structure and function and systemic circulating blood markers in humans. *Physiological Reports* 2016; 4(18): e12982.

10. Popok D, West CR, Hubli M, **Currie KD**, and Krassioukov AV. Characterizing the severity of autonomic cardiovascular dysfunction after spinal cord injury using a novel 24 hour ambulatory blood pressure software. *Journal of Neurotrauma* 2017; 34(3): 559-566.

11. **Currie KD**, West CR, Stöhr EJ, and Krassioukov AV. Left ventricular mechanics in untrained and trained males with tetraplegia. *Journal of Neurotrauma* 2017; 34(3): 591-598.

12. **Currie KD**, West CR, and Krassioukov AV. Differences in left ventricular global function and mechanics in Paralympic athletes with cervical and thoracic spinal cord injuries. *Frontier's in Physiology* 2016; 7: Article 110. doi: 10.3389/fphys.2016.00110.

13. Fougere RJ*, **Currie KD***, Nigro MK, Stothers L, Rapoport D and Krassioukov AV. Reduction in bladder-related autonomic dysreflexia following OnabotulinumtoxinA treatment in spinal cord injury. *Journal of Neurotrauma* 2016; 33(18): 651-657. **Denotes co-first authorship.*

14. **Currie KD** and Krassioukov AV. A walking disaster: a case of incomplete spinal cord injury with severe orthostatic hypotension. *Clinical Autonomic Research* 2015; 25(5): 335-337.

15. West CR, **Currie KD**, Gee CM, Krassioukov AV and Borisoff J. Active-arm passive-leg exercise improves cardiovascular function in spinal cord injury. *American Journal of Physical Medicine & Rehabilitation* 2015; 94(11): e102-e106.

16. **Currie KD**, Wong SC, Warburton DE, and Krassioukov AV. Reliability of the sit-up test in individuals with spinal cord injury. *The Journal of Spinal Cord Medicine* 2015; 38(4): 563-566.

17. **Currie KD**, Bailey KJ, Jung ME, McKelvie RS, and MacDonald MJ. Effects of resistance training combined with moderate-intensity endurance or low-volume high-intensity interval exercise on cardiovascular risk factors in patients with coronary artery disease. *Journal of Science and Medicine in Sport* 2015; 18(6): 637-642.

18. **Currie KD**, West CR, Hubli M, Gee CM, and Krassioukov AV. Peak heart rates and sympathetic function in tetraplegic non-athletes and athletes. *Medicine & Science in Sports & Exercise* 2015; 47(6): 1259-1264.

19. West CR, Gee CG, Vos C, Hubli M, **Currie KD**, and Krassioukov AV. Cardiovascular control, autonomic function, and elite endurance performance in spinal cord injury. *Scandinavian Journal of Medicine & Science in Sports* 2015; 25(4): 476-485.

20. Hubli M, **Currie KD**, West CR, Gee GM, and Krassioukov AV. Physical exercise improves arterial stiffness after spinal cord injury. *Journal of Spinal Cord Medicine* 2014; 37(6): 782-785.

21. **Currie KD**, McKelvie RS, and MacDonald MJ. Brachial artery endothelial responses during early recovery from an exercise bout in patients with coronary artery disease. *BioMed Research International* 2014; 591918.

22. West CR, Crawford MA, Poormasjedi-Meibod MS, **Currie KD**, Fallavollita A, Yuen V, McNeill JH, and Krassioukov AV. Passive hind-limb cycling improves cardiac function and reduces cardiovascular disease risk in experimental spinal cord injury. *Journal of Physiology* 2014; 592(8): 1771-1783.

23. **Currie KD**, Hubli M, and Krassioukov AV. Applanation tonometry: a reliable technique to assess aortic pulse wave velocity in spinal cord injury. *Spinal Cord* 2014; 52(4): 272-275.

24. **Currie KD**, Rosen LM, Millar PJ, McKelvie RS, and MacDonald MJ. Heart rate recovery and heart rate variability are unchanged following 12-weeks of high-intensity interval and moderate-intensity endurance exercise training in patients with coronary artery disease. *Applied Physiology, Nutrition, and Metabolism* 2013; 38(6): 644-650.

25. **Currie KD**, Dubberley JB, McKelvie RS, and MacDonald MJ. Low-volume high-intensity interval training in patients with coronary artery disease. *Medicine & Science in Sports & Exercise* 2013; 45(8): 1436-1442.

26. **Currie KD**, McKelvie RS, and MacDonald MJ. Flow-mediated dilation is acutely improved following high-intensity interval exercise. *Medicine & Science in Sports & Exercise* 2012; 44(11): 2057-2064.

27. **Currie KD**, Martin AA, Millar PJ, Stone N, Timmons BW, Dillenburg RF, and MacDonald MJ. Vascular and autonomic function in preschool-aged children with congenital heart disease. *Congenital Heart Disease* 2012; 7(3): 289-297.

28. Staples AW, Burd NA, West DW, **Currie KD**, Atheron PJ, Moore DR, Rennie MJ, MacDonald MJ, Baker SK, and Phillips SM. Carbohydrate Does Not Augment Exercise-Induced Protein Accretion versus Protein Alone. *Medicine & Science in Sports & Exercise* 2011; 43(7): 1154-1161.

29. **Currie KD**, Proudfoot NA, Timmons BW, and MacDonald MJ. Non-invasive measures of vascular health are reliable in preschool-aged children. *Applied Physiology, Nutrition, and Metabolism* 2010; 35(4): 512-517.

30. **Currie KD**, Thomas SG, and Goodman JM. Effects of short-term endurance exercise training on vascular function in young males. *European Journal of Applied Physiology* 2009; 107(2): 211-218.

(ii) Invited Chapters in Books and Review Articles in Journals

1. Graeme J. Koelwyn, **Katharine D. Currie**, Maureen J. MacDonald and Neil D. Eves (2012). Ultrasonography and Tonometry for the Assessment of Human Arterial Stiffness, Applied Aspects of Ultrasonography in Humans, Phil Ainslie (Ed.), ISBN: 978-953-51-0522-0, InTech, Available from: http://www.intechopen.com/books/applied-aspects-of-ultrasonography-in-humans/ultrasonography-and-tonometry-for-the-assessment-of-human-arterial-stiffness

(iii) Comments, Editorials and Reviews

1. **Currie KD**, Floras JS, La Gerche A, and Goodman JM. Exercise blood pressure guidelines: time to reevaluate what is normal and exaggerated? *Sports Medicine* 2018; 48(8): 1763-1771.

2. Vecchiarelli E, Banks L and **Currie KD**. Can a bout of exercise harm the human heart? *Journal of Physiology* 2016; 594(24): 7167-7168.

3. **Currie KD** and MacDonald MJ. High-intensity interval training: a little of something is better than a lot of nothing. *CrossTalk Comment, published under Supporting Information in the Journal of Physiology* 2015; 593(24): 5215-5217.

4. MacDonald MJ, and **Currie KD**. Interval exercise is a path to good health, but how much, how often and for whom? *Clinical Science (London)* 2009; 116(4): 315-316.

(iv) Journal Abstracts and Proceedings of Meetings

1. **Currie KD**, Coates AM, Slysz JT, Aubry RL, Whinton AK, Mountjoy ML, Millar PJ and Burr JF. Early diastolic function is increased in elite runners relative to swimmers. *Applied Physiology, Nutrition, and Metabolism* 2017; 42 (10 S2): S68.

2. Slysz JT, Aubry R, Coates A, **Currie KD**, Millar PJ and Burr JF. The effect of high volume training on arterial stiffness in elite runners and swimmers. *Applied Physiology, Nutrition, and Metabolism* 2017; 42 (10 S2): S100.

3. **Currie KD**, Banks L, Sasson Z and Goodman JM. Absence of sex-differences in left ventricular diastolic function between middle-aged endurance athletes. *Applied Physiology, Nutrition, and Metabolism* 2016; 41(9 S1): S351.

4. Phillips AA, Squair JW, **Currie K**, Tzeng SYC, Ainslie PN and Krassioukov AV. 2015 Parapan American Games: Does physical activity improve cerebrovascular function after high-level spinal cord injury? *The Journal of the Federation of American Societies for Experimental Biology* 2016; 30(S1): 1288.9.

5. Fougere R, **Currie K**, Stothers L, Nigro M, Rapaport D, and Krassioukov A. Effect of OnabotulinumtoxinA treatment for neurogenic detrusor over activity on the prevention of autonomic dysreflexia following spinal cord injury. *The Journal of Urology* 2015; 193(4S): e37.

6. **Currie KD**, West CR, and Krassioukov AV. Enhanced diastolic mechanics prevents diastolic dysfunction in Paralympians with tetraplegia. *Applied Physiology, Nutrition, and Metabolism* 2015; 40(9 S1): S15.

7. **Currie KD**, Cotie LM, Tang A, and MacDonald MJ. Comprehensive assessment of brachial artery endothelial function across a spectrum of health and disease. *Applied Physiology, Nutrition, and Metabolism* 2014; 39(S1): S13.

8. Cotie LM, McGill G, **Currie KD**, Totosy de Zepetnek JO, McKelvie RS, and MacDonald MJ. Acute brachial artery endothelial responses to both moderate continuous and high-intensity interval exercise in young healthy males. *Applied Physiology, Nutrition, and Metabolism* 2014; 39(S1): S12.

9. **Currie KD**, West CR, Hubli M, Gee CM, and Krassioukov AV. Peak exercise heart rates and sympathetic function: a comparison between athletes and non-athletes with spinal cord injury. *Topics in Spinal Cord Injury Rehabilitation* 2014; 20(S1): 17-18.

10. Hubli M, **Currie KD**, West CR, Gee CM, and Krassioukov AV. Arterial stiffness after spinal cord injury: athletes versus non-athletes. *Topics in Spinal Cord Injury Rehabilitation* 2014; 20(S1): 17.

11. West CR, Crawford MA, Poormasjedi-Meibod MS, **Currie KD**, Yuen VG, McNeill JH, and Krassioukov AV. A novel mechanistic insight into cardiac dysfunction after spinal cord injury. *Topics in Spinal Cord Injury Rehabilitation* 2014; 20(S1): 20.

12. **Currie KD**, Ramautar SA, McKelvie RS, and MacDonald MJ. Effects of combined resistance and low-volume high-intensity interval exercise training in patients with coronary artery disease. *Applied Physiology, Nutrition, and Metabolism* 2013; 38(10): 1035.

13. **Currie KD**. Effects of acute and chronic low-volume high-intensity interval exercise on cardiovascular health in patients with coronary artery disease. *Applied Physiology, Nutrition, and Metabolism* 2013; 38(3): 359.

14. Cotie L, **Currie K**, Totosy de Zeptnek J, Josse A, McGill G, Phillips G, and MacDonald M. Investigating relationships between arterial stiffness and collagen turnover in humans. *The Journal of the Federation of American Societies for Experimental Biology* 2013; 27: 1136.17.

15. Shenouda N, Proudfoot NA, **Currie KD**, Timmons BW, and Macdonald MJ. A comparison between automated and semi-automated edge-tracking software for the analysis of carotid intima-media thickness. *Applied Physiology, Nutrition, and Metabolism* 2013; 38(10): 1077.

16. Bailey KJ, **Currie KD**, MacDonald MJ, McKelvie RS, and Jung ME. Changes in health related quality of life following a 6-month cardiac rehabilitation program involving aerobic and resistance training. *Journal of Sport & Exercise Psychology* 2013; 35: S75-122.

17. **Currie KD**, McKelvie RS, and MacDonald MJ. Brachial artery endothelial-independent function is transiently impaired in patients with coronary artery disease following a sub-maximal exercise bout. *Applied Physiology, Nutrition, and Metabolism* 2012; 37(S1): S9.

18. **Currie KD**, McKelvie RS, and MacDonald MJ. Low-volume high-intensity interval exercise training improves brachial artery flow-mediated dilation in patients with coronary artery disease. *European Database of Sport Science* 2012; 17-0597.

19. **Currie KD**, McKelvie RS, and MacDonald MJ. Heart rate responses during four difference exercise protocols in patients with coronary artery disease. *European Database of Sport Science* 2012; 17-0592.

20. **Currie KD**, McKelvie RS, and MacDonald MJ. Assessment of acute effects of continuous and high-intensity interval exercise on endothelial function in individuals with coronary artery disease. *European Database of Sport Science* 2011; 16-0604.

21. **Currie KD**, Lee K, McKelvie RS, and MacDonald MJ. The acute effects of continuous and interval exercise on pulse wave velocity in individuals with coronary artery disease. *Applied Physiology, Nutrition, and Metabolism* 2010; 35(S1): S21.

22. **Currie KD**, Proudfoot NA, Timmons BW, and MacDonald MJ. Reliability of vascular health measures in 3-6 year old children. *Applied Physiology, Nutrition, and Metabolism* 2009; 34(S1): S21.

23. **Currie KD**, and Goodman JM. The effects of short-term endurance exercise training on vascular function in young males. *The Physiologist* 2008; 51(6): 30.

24. **Currie KD**, Heutschi J, Busato GM, Brozic A, Banks L, and Goodman JM. Arterial stiffness and the effects of fitness and gender. *Applied Physiology, Nutrition, and Metabolism* 2007; 32(S1): S22.

(v) Manuscripts in Review

1. Krasssioukov AV, **Currie KD**, Hubli M, et al. Effects of exercise interventions on cardiovascular health in individuals with chronic, motor-complete spinal cord injury: Protocol for a randomized controlled trial. (Cardiovascular Health/Outcomes: Improvements Created by Exercise and education in SCI "CHOICES" Study). *Revisions submitted to BMJ Open (bmjopen-2018-023540)*.

2. Buchan T, Wright S, Esfandiari S, Fuchs F, Gray T, **Currie KD**, Sasson S, Sasson Z, Mak S and Goodman J. Pulmonary hemodynamic and right ventricular responses to brief and prolonged exercise in middle-aged endurance athletes. *Under revisions at the American Journal of Physiology-Heart and Circulatory Physiology (H-00413-2018).*

PRESENTATIONS

(i) Invited Presentations

1. HIIT: High Intensity Interval Training. Webinar for the Canadian Association of Cardiovascular Prevention and Rehabilitation, April 12 2017.

2. The use of OnabotulinumtoxinA treatment for the prevention of bladder-related autonomic dysreflexia following spinal cord injury. 3rd International Symposium on Autonomic Dysfunctions following Spinal Cord Injury, Vancouver, BC, Canada, May 19 2015.

3. Acute Endothelial Responses to Sprint Interval Training. 2014 American College of Sports Medicine Annual Meeting, Orlando, FL, USA, May 29, 2014.

4. Cardiac adaptations following spinal cord injury. ICORD Trainee Seminar, Vancouver, BC, Canada, May 28 2013.

5. Interval exercise training in cardiac rehabilitation. Department of Kinesiology Seminar Series, Hamilton, ON, Canada, April 19 2012.

(ii) Conference Presentations

1. **Currie KD**, Obeid J, MacDonald MJ and Timmons BW. Exercise blood pressure and resting cardiovascular health in children with a chronic inflammatory condition. Child Health Research Day 2018, Hamilton, ON, Canada, March 28 2018.

2. **Currie KD**, Sasson Z and Goodman JM. Hypertensive responses to exercise do not affect arterial-ventricular coupling in middle-aged endurance athletes. 2017 Canadian Cardiovascular Congress, Vancouver, BC, Canada, October 23 2017.

3. **Currie KD**, West CR and Krassioukov AV. Left ventricular dysfunction following cervical spinal cord injury. 3rd International Symposium on Autonomic Dysfunctions following Spinal Cord Injury, Vancouver, BC, Canada, May 19 2015.

4. **Currie KD** and Krassioukov AV. A Walking Disaster: A Case of Motor-Incomplete Spinal Cord Injury with Severe Orthostatic Hypotension. 6th Annual GF Strong Rehabilitation Research Day, Vancouver, BC, Canada, April 22 2015.

5. **Currie KD**, Hubli M, Gee CM, West CR, and Krassioukov AV. Sex-specific differences in cardiovascular parameters in spinal cord injured individuals. North American Artery Fourth Annual Meeting, Chicago, Illinois, USA, September 5-6 2014.

6. **Currie KD**, Cotie LM, Hubli M, West CR, Assinck P, MacDonald MJ, and Krassioukov AV. Preservation of brachial artery endothelial function in Paralympic athletes. 2014 ICORD Trainee Research Symposium, Vancouver, BC, Canada, June 3-4 2014.

7. **Currie KD**, West CR, Hubli M, Gee CM, Krassioukov AV. Peak Exercise Heart Rates and Sympathetic Function: A Comparison between Athletes and Non-Athletes with Spinal Cord Injury. 2nd International Symposium on Autonomic Dysfunctions following Spinal Cord Injury, Vancouver, BC, Canada, November 27 2013.

8. **Currie KD**, West CR, Crawford MA, Yuen J, and Krassioukov AV. Time course of cardiac adaptations after experimental spinal cord injury. ICORD Trainee Research Symposium, Vancouver, BC, Canada, May 30-31 2013.

9. **Currie KD**, Hubli M, and Krassioukov AV. Reliability of aortic pulse wave velocity assessments in individuals with spinal cord injury. G. F. Strong Rehab Centre Rehabilitation Research Day, Vancouver, BC, Canada, May 1 2013.

10. **Currie KD**, Dubberley JM, McKelvie RS, and MacDonald MJ. Low-volume high-intensity interval exercise training improves cardiorespiratory fitness in patients with coronary artery disease. Ontario Exercise Physiology Annual Conference, Barrie, ON, Canada, January 20-22 2012.

11. **Currie KD**, and MacDonald MJ. The effects of a single bout of exercise on arterial stiffness in individuals with coronary artery disease. Ontario Exercise Physiology Annual Conference, Barrie, ON, Canada, January 22-24 2010.

12. **Currie KD**, Proudfoot NA, Timmons BW, and MacDonald MJ. Reliability of measures of vascular health in preschool-aged children. Canadian Institutes of Health Research, Institute of Human Development, Child and Youth Health Scientific Forum, Hamilton, ON, Canada, September 15 2009.

13. **Currie KD**. The effects of aerobic and sprint interval training on endothelial function in patients with cardiovascular disease. Ontario Exercise Physiology Annual Conference, Barrie, ON, Canada, January 23-25 2009.

14. **Currie KD**, and Goodman JM. The effects of short-term endurance exercise training on arterial stiffness in young males. Bodies of Knowledge Graduate Research Conference, University of Toronto, Toronto, ON, Canada May 22-23 2008.

15. **Currie KD**. The effects of short-term endurance exercise training on vascular function in young males. The Cardiovascular Sciences Collaborative Program 9th Annual Student Research Day, University of Toronto, Toronto, ON, Canada, February 21 2008.

16. **Currie KD**. Effects of exercise training mode on vascular function. The Bertha Rosenstadt National Undergraduate Research Conference, University of Toronto, Toronto, ON, Canada, April 7 2006.

TEACHING EXPERIENCE

(i) Courses taught

KINESIOL 704 – Cardiovascular Regulation in Exercise
Department of Kinesiology, McMaster University
This course will examine the cardiovascular responses to both acute and chronic exercise in a variety of populations.

KINESIOL 4B03 – Cardiovascular Disease Pathophysiology and Rehabilitation
Department of Kinesiology, McMaster University
An examination of the pathophysiology of cardiovascular disease and evidence-based guidelines for its diagnosis, management, and rehabilitation.

KIN 191 – Anatomy & Physiology II
School of Kinesiology, University of British Columbia
Structure and function of the digestive, endocrine, urinary, circulatory and respiratory systems. Special emphasis on effects of exercise.

PAC100Y1 – Basic Aquatics
Faculty of Physical Education and Health, University of Toronto
This section of the basic rotation is designed for those students with little or no previous swimming experience. Upon completion of the course, students should be comfortable in deep water and will have some knowledge of the various swimming strokes and aquatic activities.

(ii) Guest lectures

03/09/2016	"Coronary Heart Disease" KPE 464H – Clinical Exercise Testing and Prescription Faculty of Kinesiology & Physical Education, University of Toronto
02/24/2016	"Cardiovascular responses to aerobic exercise in spinal cord injury" HK 4600 – Applied Human Kinetics II Department of Human Health & Nutritional Sciences, University of Guelph

08/11/2014	"Cardiovascular responses to exercise in spinal cord injury" Applied Exercise Physiology School of Kinesiology, University of British Columbia
03/22/ 2012 & 01/11/2010	"Interval exercise training in coronary artery disease" KIN 4B03 – CAD and Physical Activity Department of Kinesiology, McMaster University
10/06/2011	"ECG and ultrasound imaging of the heart and arteries" Med Phys 4XX3 – Human Biology for Physical Scientists Department of Medical Physics and Radiation Sciences, McMaster University

RESEARCH SUPERVISION

(i) Master's Student Mentorship

2016 – 2017	Vanessa Dizonno, MSc in Exercise Sciences University of Toronto Thesis: The acute physiological response to high-intensity interval exercise in patients with coronary artery disease
2016	Ryan Sless, MSc in Exercise Sciences University of Toronto Thesis: Mechanisms of an exaggerated blood pressure response to exercise in middle-aged endurance-trained athletes
2013 – 2014	Renée Fougere, MSc in Experimental Medicine University of British Columbia Thesis: OnabotulinumtoxinA treatment for neurogenic detrusor overactivity and the prevention of autonomic dysreflexia following spinal cord injury

(ii) Undergraduate Student Research Supervision

2014 – 2015	Mackenzie Li, BIOL 448 (Directed Studies Course) University of British Columbia Project: Augmentation index in spinal cord injury: influences of lesion and fitness levels
2011 – 2012	Lee Rosen, LIFE SCI 4B06 (Senior Undergraduate Thesis) McMaster University Project: High-intensity interval exercise training in cardiac rehabilitation and its effect on heart rate recovery
2011 – 2012	Stephanie Ramautar, LIFE SCI 4B06 (Senior Undergraduate Thesis) McMaster University Project: High-intensity interval exercise training in cardiac rehabilitation and its effect on left ventricular ejection fraction
2011 – 2012	Leanna Souza-Barros, KIN 4RR9 (Senior Undergraduate Thesis) McMaster University Project: Variations in pulse wave velocity measurement by site in clinical and healthy populations

2010 – 2011 Nathan Ricketts, BIO 4C09 (Senior Undergraduate Thesis)
McMaster University
Project: The acute effects of high-intensity interval exercise and accumulated, moderate-intensity exercise on heart rate recovery in individuals with coronary artery disease

2009 – 2010 Koren Lee, BIO 4C09 (Senior Undergraduate Thesis)
McMaster University
Project: Heart rate recovery following different intensity cycling exercise in individuals with coronary artery disease