MAZANKOWSKI
ALBERTA HEART INSTITUTE

Mark Haykowsky

PhD

Professor, Department of Physical Therapy,
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Clinical & Academic Offices:
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Professional Overview:

Postdoctoral Students, Graduate Students:

- Edie Pituskin

Scientific Focus:

Current Research Interests:

Dr Haykowsky's research program has four main initiatives:

1) To examine the cardiovascular benefits of exercise training in healthy older individuals;
2) To determine the biologic mechanisms responsible for the decline in exercise capacity in heart failure patients and heart transplant recipients and the role of exercise training to restore optimal cardiovascular and skeletal muscle function;
3) To examine heart-lung interactions and ventricular-vascular coupling in athletes;
4) To examine the role that exercise training plays in reversing chemotherapy induced left ventricular dysfunction in women with breast cancer.

Clinical Trials:

Dr. Haykowsky is the clinical exercise physiology section leader for the AHFMR funded Alberta Heart team grant and the Cardio-Oncology research team grant funded by the Mazankowski Alberta Heart Institute/University of Alberta Foundation.

Publications:

(out of 126 publications)

1. **Haykowsky M**, Brubaker P, Stewart K, Morgan TM, Eggebeen J, Kitzman D. Effect of Endurance Training on the Determinants of Peak Exercise Oxygen Consumption in Elderly Patients with Heart Failure and Preserved Ejection Fraction. J Am Coll Cardiol. 2012 Jul 10;60(2):120-8

2. **Haykowsky MJ**, Herrington DM, Brubaker P, Morgan T, Hundley WG, Kitzman D. Relationship of Flow Mediated Arterial Dilation and Exercise Capacity in Older Patients with Heart Failure and Preserved Ejection Fraction. *J Gerontol A Biol Sci Med Sci*. 2012 Apr 20. [Epub ahead of print]

3.**Haykowsky M**, John J, Brubaker P, Stewart K, Morgan T, Kitzman, D. Determinants of Exercise Intolerance in Older Heart Failure Patients with Preserved Ejection Fraction. *J Am Coll Cardiol. 265-274, 2011.*

4. Jones LW. Courneya K, Mackey JR, Muss HB, **Haykowsky MJ**. Breast Cancer Patients Reach the Threshold for Functional Dependence a Decade Earlier than Age-Matched Healthy Women*. J Clin Oncol 30:2530-2537*,2012.

5. Scott J, Khakoo, Mackey J, **Haykowsky M**, Douglas P, Jones L. Modulation of Anthracycline-Induced Cardiotoxicity by Aerobic Exercise in Breast Cancer: Current Evidence and Underlying Mechanisms. *Circulation. 2011;124:642-650.*

6. **Haykowsky M** and Tymchak W. Superior Athletic Performance Two Decades After Cardiac Transplantation. *The New England Journal of Medicine*. 2007;356,19:2007-2008.