



## **2013-2014 Research Activities**

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*The following report details West Park's research activities separated by study type/event and research themes*

## **1.0 PEER REVIEWED PUBLICATIONS**

### ***Respiratory Rehab***

**Brooks D, Deveaux L, Beauchamp M, Goldstein RS.** Community-based Exercise Programs as a Strategy to Optimize Function in Chronic Disease: A Systematic Review. *Medical Care* 2014; 52: 216-226.

**Brooks D, Desveaux L, Rolfe D, Beauchamp M, Goldstein RS.** Participant experiences of a community-based maintenance program post-pulmonary rehabilitation. *Chronic Respiratory Disease* 2014; 11: 26-30.

**Brooks D, Janaudis-Ferreira T, Beauchamp MK, Robles PG, Goldstein RS.** Measurement of Activities of Daily Living in Patients With COPD: A Systematic Review. *Chest* 2014; 145: 253-251.

**Brooks D, Canestraro A, Nakhle A, Stack M, Beauchamp MK.** Oncology Rehabilitation Provision and Practice Patterns across Canada. *Physiotherapy Canada. Physiothérapie Canada* 2013; 65(1):94-102.

**Brooks D, Beauchamp MK, Evans R, Janaudis-Ferreira T, Goldstein RS.** Systematic review of supervised exercise programs after pulmonary rehabilitation in individuals with COPD. *Chest* 2013; 144(4): 1224-1233.

**Brooks D, Beauchamp MK, Francella S, Romano JM, Goldstein RS.** A novel approach to long-term respiratory care: results of a community-based post-rehabilitation maintenance program in COPD. *Respiratory Medicine* 2013; 107(8): 1210-1216.

**Dolmage TE, Evans RA, Brooks D, Goldstein RS.** Breathing helium-hyperoxia and tolerance of partitioned exercise in patients with COPD. *Journal of Cardiopulmonary Rehabilitation and Prevention*. 2014;34(1):69-74. Epub 2013/11/23. doi: 10.1097/HCR.0000000000000028. PubMed PMID: 24263075.

**Dolmage TE, Janaudis-Ferreira T, Hill K, Price S, Brooks D, Goldstein RS.** Arm elevation and coordinated breathing strategies in patients with COPD. *CHEST*. 2013;144(1):128-35. doi: 10.1378/chest.12-2467.

**Dolmage TE, Evans RA, Goldstein RS.** Defining hyperinflation as 'dynamic': Moving toward the slope. *Resp Med*. 2013;107(7):953-8. doi: <http://dx.doi.org/10.1016/j.rmed.2013.02.012>.

**Evans RA, Dolmage TE, Robles PG, Goldstein RS, Brooks D.** Do Field Walking Tests Produce Similar Cardiopulmonary Demands to an Incremental Treadmill test in Obese Individuals with Treated Obstructive Sleep Apnea? *Chest*. 2014. Epub 2014/03/01. doi: 10.1378/chest.13-2060. PubMed PMID: 24577643.

**Evans RA, Brooks D.** Breathing Helium-Hyperoxia and Tolerance of Partitioned Exercise in Patients With COPD. *Journal of Cardiopulmonary Rehabilitation and Prevention* 2013; 34(1): 69-74.

**Mathur S, Robles PG, Brooks D, Goldstein RS,** Salbach N. Gender-associated differences in pulmonary rehabilitation outcomes in people with chronic obstructive pulmonary disease: a systematic review. *Journal of Cardiopulmonary Rehabilitation and Prevention* 2014; 34(2):87-97.

Salbach NM, **Brooks D, Romano J, Woon L, Dolmage TE.** Cardiorespiratory responses during the 6-minute walk and ramp cycle ergometer tests and their relationship to physical activity in stroke. *Neurorehabil Neural Repair.* 2014;28(2):111-9. Epub 2013/08/08. doi: 10.1177/1545968313498826. PubMed PMID: 23921421.

Sibley KM, **O'Hoski S,** Winship B, **Brooks D, Beauchamp MK.** Increasing the clinical utility of the BESTest, mini-BESTest, and brief-BESTest: normative values in Canadian adults who are healthy and aged 50 years or older. *Physical Therapy* 2014; 94(3): 334-342.

**Woon L,** Salbach NM, **Brooks D, Romano J.** The Relationship between Clinical Measures and Daily Physical Activity and Participation in Ambulatory, Community-Dwelling People with Stroke. *Journal of Novel Physiotherapy* 2013; 3(6).

### ***Spasticity/Neuro***

Nair P, **Phadke C,** Behrman A. Phase Dependent Modulation of Soleus H-reflex in Healthy, Non-injured Individuals while Walking with an Ankle Foot Orthosis. *Gait and Posture* 2014; 39(4): 1086-91.

**Pauley, T., Ismail, F., Boulias, C, Devlin, M., Phadke, C.** A comparison of foot pedal reaction time among patients with right- or left-hemiplegia and able-bodied controls. *Topics in Stroke Rehabilitation* 2013; 20 (6): 500-8.

**Phadke C, Ismail F, Boulias C,** Gage W, Mochizuki G. The impact of post-stroke spasticity and botulinum toxin on standing balance: a systematic review. *Expert Review of Neurotherapeutics* 2013; 14(3): 319-27.

**Phadke C,** Shaw L, **Kunju Kunju J, Ismail F, Boulias C.** Perspectives on participation of a person with communication disabilities in a rehabilitation research study. *European Journal of Physical and Rehabilitation Medicine* 2014; Epub ahead of print: PubMed PMID:24710356.

**Phadke C, Davidson C, Ismail F, Boulias C.** The effect of neural lesion type on botulinum toxin dosage: A retrospective chart review. *Physical Medicine and Rehabilitation Journal* 2014; 6(5):406-11.

**Phadke C, Ismail F, Boulias C.** Letter to editor: Spasticity literacy among family physicians in Ontario. *Ontario Medical Review* 2013.

### ***Amputee Rehab***

**Pauley T, Devlin M, Madan-Sharma P.** A single-blind, cross-over trial of hip abductor strength training to improve timed up & go performance in patients with unilateral, transfemoral amputation. *Journal of Rehabilitation Medicine.* Epub ahead of print: DOI 10.2340/16501977-1270, 2014 Feb 24; 46(3):264-70.

### **Knowledge Translation**

**Janes, N.** Unlocking the doors: introducing practice development to Canadian healthcare. Critical Commentary for International Practice Development Journal, 4(1) 2014. Available at <http://www.fons.org/library/journal.aspx> 2014.

**Woo K, Cowie B.** Understanding compression for venous leg ulcers. Nursing 2013; 43(1): 66-68.

### **2.0 PEER REVIEWED PUBLICATIONS (IN PRESS, SUBMITTED, UNDER REVIEW)**

#### **Respiratory Rehab**

**Avendano M.** Home Mechanical Ventilation Process. Submitted.

**Brooks D,** Snell K, Chau L, **Janaudis-Ferreira T,** Sutherland L. Physiotherapy Canada 2014. In press.

**Brooks D,** Parreira VF, **Janaudis-Ferreira T, Evans RA, Goldstein RSS.** Measurement Properties of the Incremental Shuttle Walk Test: A systematic review. Chest 2014. In press.

**Dolmage TE,** Rozenberg D, Malek N, **Evans RA, Goldstein RS.** Saving Time and Effort for Patients with COPD: Setting the Speed for an Endurance Test Using the Usual and Fast Walk Speeds. Chronic Obstructive Pulmonary Diseases: Journal of the COPD Foundation. In press.

**Gallagher S, Phadke C, Ismail F, Boulias C.** Physical therapy for a chronic stroke individual following botulinum toxin injection for spasticity: a case report. Physiotherapy Canada 2014. Accepted.

**Goldstein RS, Janaudis-Ferreira T, D'Souza L, Brooks D.** Prevalence and Characteristics of Patients with a diagnosis of COPD participating in Non-Pulmonary Rehabilitation programs – A Brief Report. Physiotherapy Canada 2014. In press.

Rozenberg D, **Dolmage TE, Evans RA, Goldstein RS.** Repeatability of usual and fast walking speeds in patients with chronic obstructive pulmonary disease. Journal of Cardiopulmonary Rehabilitation and Prevention 2014. In press.

**Desveaux L, Janaudis-Ferreira T, Goldstein R, Brooks D.** An international comparison of pulmonary rehabilitation: a systematic review. *Journal of COPD.*

Snell K, Hassan A, Sutherland L, Chau L, Senior T, **Janaudis-Ferreira T, Brooks D.** Type and quality of physical therapy research publications: has there been a change in the past decade? *Physiotherapy Canada.*

### 3.0 OTHER PUBLICATIONS

#### *Knowledge Translation*

**Cowie B**, Northwood M, Robbs L, Hunter K, Sebastian S. Promoting Continence Care, A Bladder and Bowel Handbook for Care Providers. 2014 Hamilton: McMaster University Press.

**Cowie, B.**, Northwood, M., Robbs, L., Hunter, K. F., Sebastian, S., & Fisher, P. Promoting Continence Care, A Bladder and Bowel Handbook for Care Providers P. Eyles (Ed.). 2014 Hamilton: McMaster University Press.

### 4.0 PRESENTATIONS AT LOCAL-NATIONAL-INTERNATIONAL MEETINGS

#### *Respiratory Rehab*

**Avendano M., Derkach P.** The Science Hour features West Park in a two part series on the 10th anniversary of SARS, BBC Radio.

**Brooks D**, Harison SL, **Janaudis-Ferreira T**, **Goldstein RS**. Balance training for Chronic Obstructive Pulmonary Disease: Knowledge Translation in Pulmonary Rehabilitation. Ontario Physiotherapy Association. Better Breathing 2014 Conference. Toronto, Canada, 31 January 2013 (Poster).

**Brooks D**, **Desveaux L**, **Janaudis-Ferreira T**, **Goldstein RS**. An International Comparison of Pulmonary Rehabilitation: A Systematic Review. Better Breathing 2014 Conference. Toronto, Canada, 31 January 2013 (Poster).

**Brooks D**, **Desveaux L**, **Mathur S**, **Goldstein RS**. Perspectives of Individuals with Stroke and COPD in Canada on Community-Based Post-Rehabilitation Exercise Programs. American Thoracic Society Conference. Philadelphia, USA, 19 May 2013 (Poster).

**Brooks D**, **Janaudis-Ferreira T**, **Mathur S**, **Goldstein RS**. Relationship between physical activity and ADL in COPD. American Thoracic Society Conference. American Thoracic Society Conference. Philadelphia, USA, May 19, 2013 (Poster).

**Brooks D**, **Beauchamp M**, **Janudis-Ferreira T**, Parreira V, **Goldstein RS**. A randomized controlled trial of balance during pulmonary rehabilitation for individuals with COPD. American Thoracic Society Conference. American Thoracic Society Conference. Philadelphia, USA, 19 May 2013.

**Brooks D**, **Janaudis-Ferreira T**, **Beauchamp M**, **Robles P**, **Goldstein RS**. Measurements of activities of daily living in COPD: a systematic review. Canadian Respiratory Conference. Quebec City, Canada. 12 April 2013 (Poster).

**Brooks D**, **Desveaux L**, **Beauchamp M**, **Goldstein RS**. Community-Based Exercise Programs as a Strategy to Maintain Function in Chronic Disease: A Systematic Review. Canadian Respiratory Conference. Quebec City, Canada. 12 April 2013 (Poster).

**Brooks D, Robles P, Araujo T, Janaudis-Ferreira T, Goldstein RS.** Metabolic cost of resistance-based exercise training in people with COPD: preliminary results, Canadian Respiratory Conference (CRC), Calgary, Canada, 1 April 2014.

**Brooks D,** Mori B, Beaton DE, Herold J, Norman KE. Developing a new tool to assess physiotherapy students in clinical education – Phase 2: Exploring Face and Content Validity. Ontario Physiotherapy Association. Mississauga, Canada, 29 March 2014.

**Dolmage TE,** Salbach NM, **Brooks D, Romano J, Woon L.** Cardiorespiratory responses during the 6-minute walk and ramp cycle ergometer tests and their relationship to physical activity in stroke. European Stroke Conference, London, United Kingdom. 30 May 2013 (Poster).

**Dolmage TE.** Energy expenditure and activity: is it inefficient? Post Graduate Course 10 New technology assessment in COPD; ERS Annual Congress Barcelona, Spain. September 2013.

**Dolmage TE.** Energy expenditure and activity: is it inefficient? Glenfield Hospital Respiratory Journal Club, Leicester UK. September 2013.

**Dolmage TE.** Rehabilitation Interventions for Patients with Very Severe COPD - Strategies & Adjuncts to Optimize the Training Intensit. Asthma & Airway Centre Rounds at Toronto Western Hospital, January 2014.

**Evans RA, Dolmage TE,** Mangovski-Alzamora S, **Romano J,** O'Brien L, **Brooks D,** et al. [abstract] One-Legged Cycling For Chronic Obstructive Pulmonary Disease (COPD): Knowledge Translation To Pulmonary Rehabilitation. American Journal of Respiratory and Critical Care Medicine. 2013;187:A2574-A. doi: doi:10.1164/ajrccm-conference.2013.187.1\_MeetingAbstracts.A2574.

**Evans RA, Dolmage TE,** Mangovski-Alzamora S, **Romano J,** O'Brien L, **Brooks D, Goldstein RS.** One-Legged Cycling For Chronic Obstructive Pulmonary Disease (COPD): Knowledge Translation To Pulmonary Rehabilitation 13th Annual Research Day in Respirology June 2013.

**Janaudis-Ferreira T, Mathur S.** Rehabilitation in Solid Organ Transplant: What are the evidences and best practices? Canadian Society of Transplantation Conference, Montreal, March 1st, 2014.

**Goldstein RS, Janaudis-Ferreira T,** D'Souza L, **Brooks D.** Prevalence and Profile of Patients with a diagnosis of COPD participating in Non-pulmonary Rehabilitation Programs. Canadian Respiratory Conference. Quebec City, Canada, 12 April 2013 (Poster).

**Mathur S,** Mendes P, Singer L, **Janaudis-Ferreira T, Brooks D.** Assessment of Upper Limb Function in Lung Transplant Candidates. Canadian Society of Transplantation Annual Scientific Conference. Montreal, Canada, 1 February 2014.

**Mathur S,** Mendes P, Singer L, **Janaudis-Ferreira T, Brooks D.** Examining skeletal muscle structure and function in lung transplant candidates. Better Breathing 2014 Conference. Toronto, Canada, 31 January 2014 (poster).

**Mathur S**, Mendes P, Singer L, Wickerson L, **Brooks D**. Examining skeletal muscle structure and function in lung transplant candidates. Canadian Society for Exercise Physiology. Toronto, Canada. 19 October 2013 (poster).

Mendes P, Singer L, Wickerson L, Helm D, **Janaudis-Ferreira T**, **Brooks D**, Mathur S. A quantitative assessment of skeletal muscle atrophy in lung transplant candidates. In: American Thoracic Society International Conference, San Diego, USA, May 2014 (Accepted - poster).

Rozenberg D, **Dolmage TE**, **Evans RA**, Malek N, **Goldstein RS**. [abstract] Applying The Usual And Fast Walking Speeds To Estimate The Walking Speed For Endurance Testing In Patients With Chronic Obstructive Pulmonary Disease (COPD). American Journal of Respiratory and Critical Care Medicine. 2013;187:A5135-A. doi: doi:10.1164/ajrccm-conference.2013.187.1\_MeetingAbstracts.A5135.

Rozenberg D, **Dolmage TE**, **Evans RA**, **Goldstein RS**. [abstract] Repeatability Of The Usual And Fast Walking Speeds In Patients With Chronic Obstructive Pulmonary Disease (COPD). American Journal of Respiratory and Critical Care Medicine. 2013;187:A5128-A. doi: doi:10.1164/ajrccm-conference.2013.187.1\_MeetingAbstracts.A5128.

Rozenberg D, **Dolmage TE**, **Evans RA**, Malek N, **Goldstein RS**. Applying The Usual And Fast Walking Speeds To Estimate The Walking Speed For Endurance Testing In Patients With Chronic Obstructive Pulmonary Disease (COPD). 13th Annual Research Day in Respiriology, June 2013.

Rozenberg D, **Dolmage TE**, **Evans RA**, **Goldstein RS**. Repeatability Of The Usual And Fast Walking Speeds In Patients With Chronic Obstructive Pulmonary Disease (COPD). 13th Annual Research Day in Respiriology, June 2013 .

**Woon L**, Salbach NM, **Brooks D**, **Romano J**. The relevance of clinical measures to physical activity after stroke. European Stroke Conference. London, United Kingdom, 30 May 2013 (Poster).

### ***Spasticity/Neuro***

**Canning M**, **Phadke C**, **Boulias C**, **Ismail F**. A Survey of Rural and Urban Family Physicians: Analysis of Spasticity Health Literacy and Availability of Appropriate Spasticity Care. Canadian Association of Physical Medicine and Rehabilitation, CAPM&R 61st Annual Scientific Meeting, Montreal, Canada, May 29 – June 1 2013.

Kam A, Fung S, **Phadke C**, **Ismail F**, **Boulias C**. Relationship between anxiety and anticipation of botulinum toxin type A injections. Canadian Association of Physical Medicine and Rehabilitation, CAPM&R 61st Annual Scientific Meeting, Montreal, Canada, May 29 – June 1 2013.

On A, **Phadke C**, Kirazli Y, **Ismail F**, **Boulias C**. Intrafusal effects of botulinum toxin for spasticity. 52nd Annual Scientific Meeting, ISCOS (International Spinal Cord Society), Istanbul, Turkey, October 28-30 2013.

**Phadke C**, **Boulias C**, **Ismail F**. A comparative case study of the early time course of the action of onabotulinumtoxinA and incobotulinumtoxinA. World Congress for Neurorehabilitation, Istanbul, Turkey, April 8-12, 2014.



**Phadke C**, Flynn S, Kukulka CG, Thompson FJ, Behrman AL. Effect of walker usage on soleus H-reflex excitability post-spinal cord injury. World Congress for Neurorehabilitation, Istanbul, Turkey, April 8-12, 2014.

**Phadke C, Davidson C, Gulasingam S, Ismail F, Boulias C.** Association between time since stroke and botulinum toxin dosage. American College of Rehabilitation Medicine, Annual Conference, Orlando, USA, November 13 - 16, 2014.

**Phadke C, Davidson C, Ismail F, Boulias C.** Differences in botulinum toxin dosage based on neural lesion type: A retrospective study. American College of Rehabilitation Medicine, Annual Conference Orlando, USA, November 13 - 16, 2014.

**Phadke C.** Intrinsic and extrinsic factors that alter the experience of spasticity. Lecture at the Department of Physical Medicine and Rehabilitation, Emory University, Atlanta USA, 18 November 2013.

### ***Amputee/Rehab***

**Devlin M.** Role of Physiatry West Park Assessment Centre/ McCall Dawson Osterberg Handler Seminar Sept 18 2013, Ingersoll ON

**Devlin M, Paner R, Pauley T.** Development of an amputee specific normative gait database using the GAITRite® system: preliminary results. Ontario Association for Amputee Care Conference 2013, Brock University, St. Catherine's, Canada. 4 May 2013.

Moylan B, **Pauley T, Devlin M, Paner R, Dilkas S.** Development of an amputee specific normative gait database using the GAITRite® system: preliminary results. 61<sup>st</sup> Canadian Association of Physical Medicine & Rehabilitation Annual Scientific Meeting. Hilton Montreal Bonaventure, Montreal, Canada, 29 May-1 June 2013.

Moylan B., **Pauley T, Devlin M, Dilkas S, Paner R.** Impact of increased prosthetic weight on gait symmetry in dysvascular transfemoral amputees: a randomized prospective double blind crossover trial. Ontario Association for Amputee Care Conference 2013, Brock University, St. Catherine's, Canada. 3 May 2013.

**Pauley T, Devlin M, Madan-Sharma P.** A single-blind, cross-over trial of hip abductor strength training to improve timed up & go performance in patients with unilateral, transfemoral amputation. 61<sup>st</sup> Canadian Association of Physical Medicine & Rehabilitation Annual Scientific Meeting. Hilton Montreal Bonaventure, Montreal, Canada, May 29 – June 1, 2013.

### ***Knowledge Translation***

**Allin P, Boyd C, Janes N, Melamed, K.** Recipe for success: Establishing collaborative practices to sustain safe and therapeutic provision of foods and beverages in recreation therapy programming. Poster presentation at 2013 Complex Continuing Care Conference, Clinical Scholarship: Interprofessional Care Without Borders, Toronto, Ontario. April 2013.



**Allin P, Boyd, C., Janes, N., & Melamed, K.** Recipe for success: Food and beverages in TR programming. Panel presentation at the 2013 TRO Conference, Recognizing our Place in History, Kingston, Ontario. July 2013.

**Asong A, Jawanda P, Le T, Cowie B.** Point of Care Leadership to Design an Interprofessional Care Delivery Model. Oral presentation at RPNAO 55th AGM & Conference, Toronto, ON. October 2013.

Abdelshaheed T, **Brode S, Song H, Avendano M.** A Challenging Case of Extensively Drug Resistant Tuberculosis (XDR-TB). Canadian Respiratory Conference, Calgary, Canada, 25 April 2014 (poster).

**Asong A, Jawanda P, Le T, Cowie B.** Point of Care Leadership to Design an Interprofessional Care Delivery Model. RPNAO 55<sup>th</sup> AGM & Conference, Vaughn, Canada, 4 October 2013.

Burke S, **Cowie B.** A Multifocal Approach to Quality Care of Peripherally Inserted Central Catheters in a Rehabilitation and Complex Continuing Care Facility, RNAO Best Practice Spotlight Organization Knowledge Exchange Symposium, Toronto, Canada, 19 March 2014.

**Cabalatangan L, DeGuzman D, Janes, N.** Point of Care Leadership to Design an Interprofessional Care Delivery Model. Poster presentation at the RNAO 2013 Healthy Work Environment Institute Conference held in Niagara Falls, ON. August 2013.

**Cowie B.** Urinary Incontinence as a Risk Factor for Falls. Nurse Continence Advisor (NCA) Fall Gathering, McMaster University, Hamilton, Canada, 1 November 2013.

**Cowie B, Woo K, Dilkas S.** A case study involving the management of lymphedema post bilateral amputation. Oral presentation at Ontario Association for Amputee Care, 2013 Conference, Amputee Care Continuum, St. Catharines, Ontario. 3 May 2013.

**Deratney P, Sidani S.** The Effect of Insomnia on Functional Status of Community-Dwelling Older Adults. *The Journal of Gerontological Nursing* October 2013; 39(10): 22-30.

**Janes N, Cowie B.** Moving mountains towards cultures of excellence: Enacting transformational leadership accountabilities through a practice development framework. Paper presentation at Nursing Leadership: Taking Accountability for Quality Care, Toronto, Ontario. March 2013.

**Janes N, Bell B.** Person-centered Work Environments: Shifting Practice and Culture through a Practice Development Framework. Presentation for Healthy Work Environment Webinar, Ontario Hospital Association. March 2013.

**Haynes J, McNamee J.** A Multifocal Approach to Quality Care of PICCs in a Rehabilitation & Complex Continuing Care Facility. Canadian Vascular Access Association, Hyatt Regency, Toronto, Canada, 30 April 2014.

**Watling L, Bautista C, Avendano M.** West Park Healthcare Centre's Transitional Home Ventilation Program. Canadian Respiratory Conference, Calgary, Alberta, 25 April 2014 (poster).

### ***Acquired Brain Injury***

**Gargaro J, Gerber G**, Gunnell K, Grange J. Filling a Void: A Day Program for Persons Living with Moderate to Severe Acquired Brain Injury. 10th World Congress on Brain Injury, San Francisco, USA, March 2014.

**Gargaro J**, Anstey K, Cardoso S, **Gerber G**. The changing face of behaviour referrals: the trauma lens applied to behavioural treatment. 10th World Congress on Brain Injury, San Francisco, USA, March 2014.

### **6.0 AWARDS**

**Brooks D**. Fellow of the Canadian Academy of Health Science (CAHS), September 19, 2013.

**Janaudis-Ferreira T**. Lisa Cicutto Award for best poster ("Factors affecting discharge destination following lung transplantation"), Better Breathing Conference (Ontario Lung Association), Jan 2014.

**Janaudis-Ferreira T**. Best abstract award ("Arm activity during daily life in COPD"). Pulmonary Rehabilitation Assembly of the American Thoracic Society, April 2014.