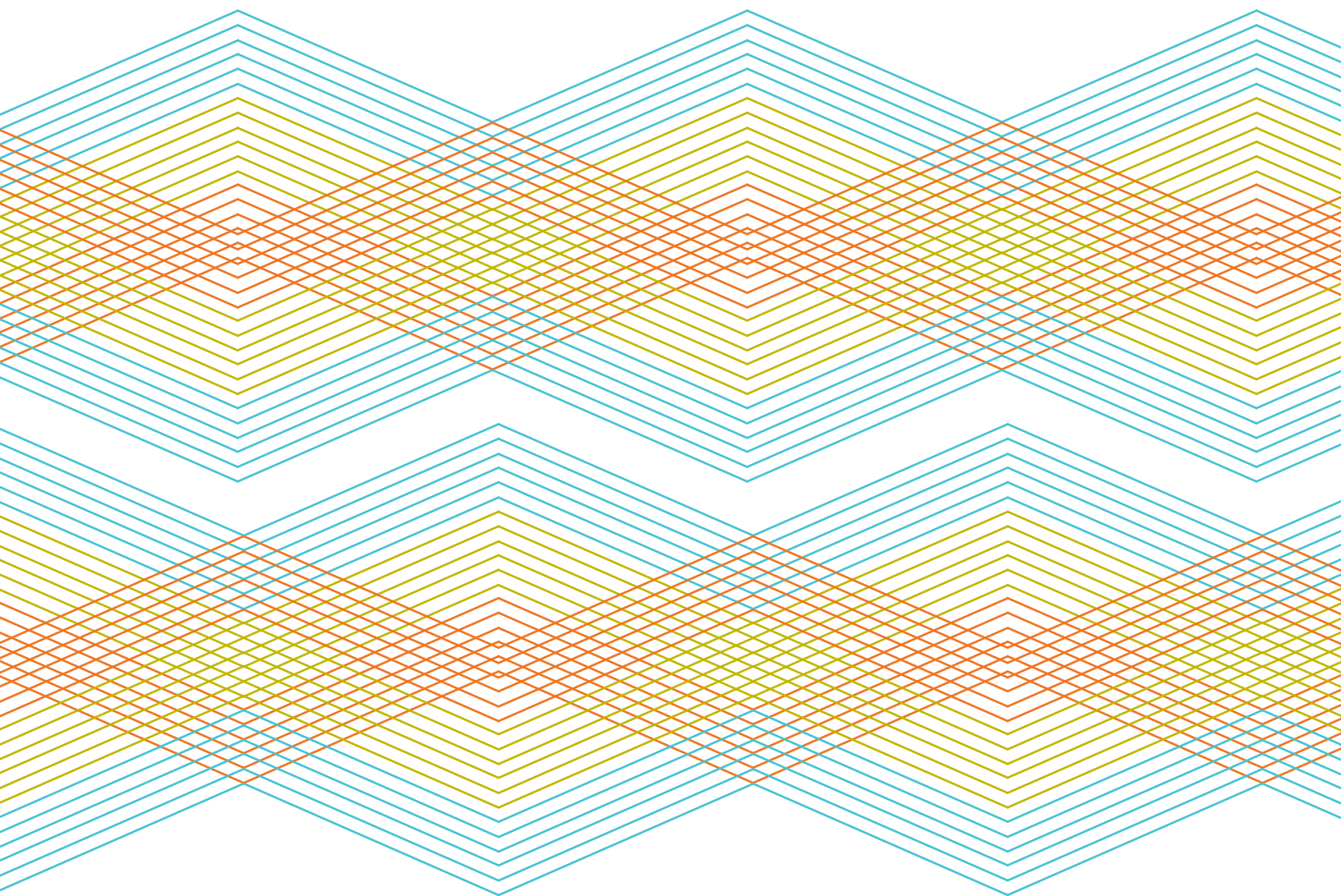


COLLEGE OF REHABILITATION SCIENCES

JULY 1, 2015 - JUNE 30, 2016

RESEARCH REPORT



Rady Faculty of
Health Sciences



UNIVERSITY
OF MANITOBA

INTRODUCTION

JACQUIE RIPAT

COLLEGE OF REHABILITATION SCIENCES, RESEARCH LEAD



The Annual College of Rehabilitation Sciences Research report outlines the many research and scholarship activities, contributions and accomplishments by faculty members in Occupational Therapy, Physical Therapy and Respiratory Therapy between the period of July 1, 2015 and June 30, 2016. This impressive list of grants received, publications, and presentations is a testament to the dedication of faculty members who take seriously their responsibility of engaging in research and scholarship in contributing to the mission of the College. However this list of outcomes does not fully capture the day-to-day processes of researchers who embrace principles of inter-professional collaboration, mentorship, consumer engagement, and knowledge translation and exchange in their research activities. These “soft” processes are difficult to document but are essential, as it is by engaging in these processes that our researchers are able to achieve what they do and contribute to meaningful, relevant, and impactful research and scholarship at local, national and international levels.

In this report, we are pleased to highlight two of our established CoRS researchers. Working with the community as partners in her research, Dr. Gayle Restall addresses the social and attitudinal

environmental barriers that people living with episodic disabilities face. Dr. Dean Kriellaars’ research focuses on increasing physical literacy among children through creative means such as circus art instruction and movement preparation programs. Through programs of research such as these, it is clear that CoRS research is having an important impact on the lives of Manitobans.

We have identified enhancing research and scholarship as a priority of our college over the upcoming years and, during our strategic planning in fall 2015, established several goals under the strategic priority Driving Discovery & Insight through Excellence in Research & Scholarly Work Activities. We have started to discuss a plan for establishing a research identity for the college; an activity which faculty view as an essential process for moving forward with our research. We will continue to strive for ways to support the work of our researchers so that they are best situated to contribute to the health, quality of life and participation of people locally, nationally and globally. With these additional strategies in place, we are positioning ourselves to enhance the existing culture of research and to move forward with vigour in the upcoming years.

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Gayle Restall's research focuses on social environments that impact participation in work, family, and community life.

Often when thinking about rehabilitation sciences, the physical environments people face is the first thing that comes to mind. Gayle Restall's research focuses on the social environments and attitudes people face that could support or hamper their participation in the activities they value like work, family, and community life.

While most people can grasp the physical barriers a patient may encounter, the social barriers and attitudes may not be so readily apparent.

Restall's research work has been centred on three main areas: Inflammatory Bowel Disease (IBD), mental health conditions and HIV. These three conditions have something in common in that they're 'episodic' disabilities, meaning people can have relatively long periods of good health before experiencing a setback. The episodic nature of these conditions creates a set of needs quite different from those of people living with permanent disabilities.

Restall says that her interest in social environments stems from her clinical work experience.

"I worked with people living with mental health conditions and the social component is important for that group," Restall says. "I've worked in many different settings and the importance of environments became obvious to me and how willing and open the environment is to supporting people, regardless of their impairments."

Currently, Restall is working with a research team focused on people living with IBD.

"One of the areas we looked at was work and how it impacts those living with that particular chronic disease," Restall says. "Some of the research was focused on the physical environment, but a lot more was around the social environment, whether it was peoples' attitudes if someone disclosed they had IBD; or attitudes they

may face if they needed some kind of workplace accommodation; or the willingness of an organization to create and provide accommodations. Our interest is in how all those things came together to either help or hinder people to have long-term employment."

Restall's other research area is in HIV.

"HIV used to be considered a terminal illness but because of advances in medical treatments it's now considered a chronic long term health condition," Restall says. "One of the research projects we've been working on is developing delivery service models that include occupational therapy, physiotherapy and speech language pathology to support those living with HIV and also looking at what people living with HIV perceive as the things they need in terms of long term support."

The stigma attached to HIV is also a major component in the social environment of those living with this chronic condition.

"One of the things that strikes us when we look at the information and the research is the impact of stigma," Restall says. "Our research is looking at ways that we can both monitor the experience of stigma for people living with HIV and develop some interventions to reduce the kinds of stigma that people feel, whether in the health care system or the community at large."

In all her research, Restall strives to work closely with the community and encourages the participation of those who will be impacted by her work.

"The thread that goes through my research is the whole idea that people who live with chronic health conditions are active participants, not only in research, but in their own health and the development of health services and social policy," she says. "When I do research I like to really focus on effective ways of making sure their voices are heard, honoured and respected."

RESEARCHER PROFILE

DEAN KRIELLAARS

ASSOCIATE PROFESSOR, DEPARTMENT OF PHYSICAL THERAPY



Dean Kriellaars focuses his research on physical literacy for people of all ages.

From soccer to Cirque du Soleil, Dean Kriellaars' research into physical movement has far-reaching implications worldwide.

Kriellaars, an associate professor in the department of physical therapy, focuses his research work in an area known as physical literacy. Often when we think of literacy, we think of the ABCs of reading and writing. Kriellaars' research takes the same concept and applies it to physical activity.

“Physical literacy is the building blocks you put together, like the alphabet, to create movements we need to do in everyday life,” Kriellaars says. “We currently don't deliver the basic alphabet of movement skills, and that alphabet is the foundation of physical literacy. If you don't have that vocabulary, you're blocked from participating actively in society, whether that's sport, recreation or vocation.”

One of the exciting research projects Kriellaars is currently working on focuses on increasing physical literacy in young soccer players, ages seven and up. The program—called Movement Preparation—is being launched across Canada with the goal of enhancing performance in soccer while increasing players' endurance. Canada is the first country in the world to implement this kind of physical literacy-based movement preparation program.

Kriellaars' other research work in physical literacy is with *Cirque du Soleil* and the National Circus School in Montreal.

We ask, “What is it about circus performers that makes them good at what they do?” he says. “My job with the circus is to maximize performers' durability and performance while minimizing injury.”

Performers go through a wide range of tests to measure bone density, muscle mass and many other physical characteristics.

“We can relate these findings to injury potential and performance potential,” the professor says.

Kriellaars' physical literacy research with circus performers is also being used to make a positive impact on the lives of children in Manitoba. A new program is being implemented in schools across the province to help promote physical activity and literacy.

“I study the impact of circus art instruction and apply it to kids to help equip them with physical literacy for life,” he says. “If every person of every ability gets a challenge, confidence is built—confidence built on a fun and challenging pathway mixed with success and failures.”

Kriellaars continues to be enthusiastic about his research and physical literacy.

“That gateway to an active life is physical literacy,” he says. “In the end it's about getting back to moving again and valuing it in society. That drives everything I do. I live it and breathe it as best I can.”



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Barclay R., Miller P, Stratford P, Pooyania S. Telephone Version of the Chedoke-McMaster Stroke Assessment Activity Inventory. Canadian Physiotherapy Congress May 26-28 2016, Victoria, BC.

Brown, C., Wener, P., Leclair, L., Johnson, L., Boyd, J., & Fricke, M. (2016). Medical residents' understanding of occupational therapy role in primary care. Canadian Association of Occupational Therapists National Conference. April 21, Banff, AB.

Brown, C., Menec, V. (2015). Care transitions for people with continuing care needs: Informing the development of seamless journeys through the care system. Canadian Association of Gerontology (CAG) Annual Conference, October 22-24, Calgary, AB.

Campbell-Rempel, M. (2016). A National Strategy for Students' Accommodations in Occupational Therapy Programs. Invited panelist: Canadian Association of Occupational Therapists National Conference, April 20, Banff, AB.

Anderson, R., Boucher, M., **Campbell-Rempel, M.A.,** Drynan, D., Moliner, C., Morrison, T., Shimmell, L., Schmitz, C., & White, C. (2016). Holistic fieldwork practice: How do we achieve this? ACOTUP sponsored session. Canadian Association of Occupational Therapists National Conference, April 21, Banff, AB.

Coyston, S. & **Cooper, J.** (2015). Understanding university governance: How does the University work? New Faculty Orientation Days, Centre for the Advancement of Teaching and Learning, July 9, University of Manitoba.

Cooper, J. (2015). A study in skin. In recognition of International Pressure Ulcer Prevention Day, November 10, Winnipeg Regional Health Authority.

Cooper, J. (2016). Mentoring graduate students. Workshop, Centre for the Advancement of Teaching and Learning, March 17, University of Manitoba.

Cooper, J. (2016). Mentoring graduate students. Workshop, Centre for the Advancement of Teaching and Learning, April 7, University of Manitoba.

Cooper, J. (2016). Jump-starting clinical research: Practitioner-academic partnerships. Keynote Address, Allied Health Research Day, May 12, Health Sciences Centre.

Cooper, J. (2016). Mentoring new investigators. Co-facilitator for workshop. June 9, Children's Hospital Research Institute of Manitoba Mentorship Annual Meeting.

Diamond-Burchuk, L. (2015). Health Behaviour Change Training Workshop. Telecare, Winnipeg Regional Health Authority.

Diamond-Burchuk L., Brown C.L. (2015). Occupational Therapy and Physical Therapy at Northern Connections Medical Centre. November 26, Annual Winnipeg Regional Health Authority Primary Care Regional Meeting.

Diamond-Burchuk, L., Brown C.L., Schorr, R, Crawford, T. (2016). Office Rehabilitative Therapy for Chronic Pain, April 8.

Diamond-Burchuk, L., Brown C.L. (2016). Group Intervention for Persistent Pain. June 1, Mount Carmel Clinic.

Dubé, C., & Etcheverry, E. (2016). Identifying Future Person Driven IDD 'Professional' Supports Within a Person Environment Occupation Framework. American Association of Intellectual and Developmental Disabilities Annual Conference, Atlanta, GA.

Dubé, C., & Conrad, A. (2016). Moving Towards Allied Support: An Organizational Journey. Canadian Conference on Developmental Disabilities and Autism (CCDDA) Annual Conference, Winnipeg, MB.

Dubé, C., Sandler, W. & Conrad, A. (2015). Interactive Workshop: Person centred community health supports: Bridging the knowledge gap. Health and Wellbeing in Developmental Disabilities across the Lifespan, Toronto, ON.

Temple, B., **Dubé, C.,** Martin, T. et al. (2015). Interactive Workshop: Injuries to careers of people with ID displaying challenging behaviours: A mixed methods study. Health and Wellbeing in Developmental Disabilities across the Lifespan, Toronto, ON.

Fernandes, M. (2015). Careers in the Health Professions. Daniel McIntyre Collegiate Institute Career Fair, Winnipeg, MB.

Fernandes, M. (2015) Program changes and implications in the change from BMR to MPT affecting pediatric physical therapy. Preschool Physiotherapy Group, Winnipeg, MB.

Fricke, M., Pereira, G., Harvey, E., Garrett, M. (2016) Physiotherapy Student Experience of Mistreatment on Clinical Placements. Canadian Physiotherapy Association National Congress, Victoria, BC.

Dean, H., Mowat, S., van Ineveld, C., Braun, K., Einarson Rand, C., **Fricke, M.**, Karpyza, E., Diamond-Burchuk, L., Rost, L., & Kleiman, N. (2015). A customized workshop on interprofessional collaborative care for international healthcare graduates, 2008-2014. Collaborating Across Borders V Conference, September 29-October 2, Roanoke, VA.

Garrett, M. (2016) Lower limb dominance for manipulation and stability. Canadian Physiotherapy Association National Congress, Victoria, BC.

Garrett M. (2016) Back to Anatomy – a Refresher on the Anatomy of the Upper and Lower Extremities for Health Professionals in Practice. CPD Medicine Program & College of Rehabilitation Sciences, University of Manitoba.

Garrett M. (2016). Lower Limb Dominance for Manipulation and Stability. Graduate student seminar series. Department of Human Anatomy and Cell Science, University of Manitoba.

Garrett M. (2015). Partitioning of Lower Limb Laterality in Function and Injury. Graduate student seminar series. Department of Human Anatomy and Cell Science, University of Manitoba.

Garrett, M. (2016). Clinical Education Update: presentation to rural Manitoba facilities via Telehealth.

Russell, M., Jung, K., Mitchell, I.M., **Giesbrecht, E.**, Miller, W.C. (2016). Computer gaming to promote wheelchair skills: preferences of older adults. Canadian Association of Occupational Therapy Annual Conference, April 19-22, Banff, AB.

Giesbrecht, E., Miller, W.C. (2016). Screening safe wheelchair use with a dual-task assessment for older adults. European Seating Symposium, June 13-15, Dublin, IR.

McDonald, R., Rushton, P., **Giesbrecht, E.**, Kirby, R.L. Viswanathan, P., Casey, J. (2016). Outcome measurement in wheelchair seating, positioning and mobility. European Seating Symposium, June 13-15, Dublin, IR.

Giesbrecht, E., Miller, W.C. (2016). Fit to teach: A manual wheelchair skills boot camp for OT students. European Seating Symposium, June 13-15, Dublin, IR.

Best, K., Smith, C., **Giesbrecht, E.**, Archambault, P., Miller, W.C., Rushton, P., Smith, E., Kirby, R.L. (2016). The evolution of wheelchair skills training in Canada – From gold to bold! European Seating Symposium, June 13-15, Dublin, IR.

Casey, J., Gowran, R., Rushton, P., McDonald, R., **Giesbrecht, E.**, Best, K., Smith, C. (2016). Appropriate wheelchair provision is primary for living: Reflecting on Education for Professional Practice. European Seating Symposium, June 13-15, Dublin, IR.

Giesbrecht, E., Miller, W.C. (2016). Get in the game: gaming technology for wheelchair skills training. International Seating Symposium, March 2-4, Vancouver, BC.

Giesbrecht, E. (2015). Mobile therapy: innovative rehabilitation delivery using mobile devices. American Congress of Rehabilitation Medicine Annual Conference, Oct 25-30, Dallas, TX.

Sakakibara, B., **Giesbrecht, E.**, Imam, B., Ross, E. (2015). Symposium: Enhancing telerehabilitation through innovative uses of low-cost consumer technologies. American Congress of Rehabilitation Medicine Annual Conference, Oct 25-30, Dallas, TX.

Horbal, R.P. (2016). Conservative Non-Surgical Management of Posterior Tibial Tendon Dysfunction, sponsored by Paris Orthotics, Winnipeg, MB.

Horbal, R.P. (2016). Pathology Specific Physical Therapy Intervention for Common LKC Dysfunction. Steinbach Physiotherapy Education Program.

Horbal, R.P. (2015). Directing Your Patient in Selecting Proper Footwear. Ness Physiotherapy Education Program.

Horbal, R.P. (2015). Your Aching Feet. MedTalks Program, Continuing Medical Education Program, Faculty Of Health Sciences, University of Manitoba, Winnipeg

Johnson, L., Hunzinger, E., Kovalchuk, K., & MacDonald, L. (2015). Occupational Therapy and Dental Hygiene students' experience of an ergonomic interprofessional education session. Manitoba Occupational Therapists Research and Innovation Day.

MacDonald, L., **Johnson, L.,** Slosower, S., & Kulick-Maccauley, B. (2015). Functional Fitness and Dental Hygiene Practice. Canadian Dental Hygiene Association Conference, Victoria, BC.

Hochman, L., Palmer-Duhalde, T., & **Leclair, L.** (2016). Effect of cognition and depression on falls prevention program outcomes. Canadian Association of Occupational Therapists National Conference, April 20, Banff, AB.

Leclair, L. (2016). Engaging in service learning: Lessons learned in a Master of Occupational Therapy course. University of Manitoba Service Learning Symposium.

Hochman, L., Perera, S., & **Leclair, L.** (2015). The effectiveness of the day hospital falls prevention program: An update. October 28, WRHA Day Hospital Rounds.

Oranye, N.O. (2016). An Application of the Item Response Theory to the Admission Selection Criteria in a Master of Occupational Therapy Program. The 19th American Association of Behavioral and Social Sciences (AABSS) conference, February 1-2, Las Vegas, NV.

Oranye, N.O. & Collins, D. (2016). Social constructivism and disability: Understanding the role of personal factors in leisure participation of disabled people. 51st Annual Conference of Canadian Sociological Association, May 30-June 3, Calgary, AB.

Parsons J.L. (2015). ACL Injury Prevention & Rehabilitation Workshop, Winnipeg, MB.

Parsons J.L. (2015). Women & Weight Training – No Bulk! Body Talks presented by the Health, Leisure, and Human Performance Research Institute, Winnipeg, MB.

Langlois, S., Godden-Webster, A., Sinclair, L., de Palma, C. Tattle, C., & **Restall, G.** (2015). What's in it for me? Interprofessional collaboration across academic institutions. Collaborating Across Borders V. October 2, Roanoke, VA.

Restall, G., Carnochan, T., Roddy, P., **Etcheverry, E.,** Roger, K., & **Sullivan, T.** (2016). "My focus is getting out into society." Exploring activity and social participation needs and goals of people living with HIV. Canadian Association for HIV Research Annual Conference, May 12-15, Winnipeg, MB.

Restall, G., MacLeod-Schroeder, N., & Dubé, C. (2016). Extended Discussion: Using an Equity Lens for Occupational Therapy Programs: Taking Action. CAOT Annual Conference, Banff, AB.

Simms, A., & **Restall, G.** (2016). Perspectives of people living with HIV: Activity and participation needs when living at a distance from specialized services. Canadian Association for HIV Research Annual Conference, May 12-15, Winnipeg, MB.

Gervais, L., Bruce, S., Payne, M., Illsley, S., **Restall, G., Sullivan, T.,** Cheuk, E., Reimer, T., & Becker, M.,(2016). Developing women-centered HIV/AIDS services in Manitoba: A community-based participatory research study. Paper presented at the Canadian Association for HIV Research Annual Conference, May 12-15, Winnipeg, MB.

Ireland, L., Wiebe, T., Fay, S., Reimer, T., McClarty, L. Cheuk, E., **Restall, G.**, Becker, M., Kendall, C., & Liddy, C. (2016). Characteristics of persons living with HIV attending self-management programs offered in the Manitoba HIV Program. Canadian Association for HIV Research Annual Conference, May 12-15, Winnipeg, MB.

Restall, G., Borton, B. & Hibbert, S. (2016). Outcomes of Relationship Development Intervention for young children with autism. Canadian Association of Occupational Therapists National Conference, April 19-22, Banff, AB. Available at: <http://www.caot.ca/conference/2016/onsiteguide2016.pdf>

Migliardi, P., & **Restall, G.** (2016). Innovative approaches and outcomes in social science HIV research. Canadian Association for HIV Research Annual Conference.

Restall, G. (2016). Self-management strategies for adults aging with HIV. Canada-United Kingdom (UK) HIV and Rehabilitation Research Collaborative 3rd International Forum on HIV and Rehabilitation Research – Advancing HIV, Aging and Rehabilitation Research and Practice, May 12, Winnipeg, MB.

Restall, G., Gerlach, A., & Anand, H. (2016). Sharing perspectives: Occupational therapy response to the Truth and Reconciliation Commission of Canada's Calls to Action. Water Cooler Talk: Canadian Association of Occupational Therapists. February 18, On-line.

McCullagh, J., & **Restall, G.** (2016). (Facilitator). Easing the burden of limited financial resources on people aging with HIV: What can be done? Annual think tank of the Canadian Working Group on HIV and Rehabilitation. January 22, Toronto, ON.

Dykstra, E., **Ripat, J.**, **Wener, P.** (2016). Know me: Client perspectives of client-centred occupational therapy. Canadian Association of Occupational Therapists National Conference, April 21, Banff, AB.

Ripat, J. (2016). Assistive technology: Wheelchair mobility in winter environments. Centre on Aging 33rd Annual Spring Research Symposium, May 2, Winnipeg, MB.

Schorr, R. (2016). Office Rehabilitation for Chronic Pain Workshop.

Schorr, R. (2015). GO-OUT (Getting Older Adults Out of Doors) Participant Workshop.

Deslauriers, A., **Sullivan, T.**, Finnson, B., Elliot, K., & Song, E. (2016). Learning from a health-mentor: impact on students' understanding of client-centredness. Canadian Association of Occupational Therapists National Conference, April 21, Banff, AB.

Sullivan, T., Pollock, S., Yanke, H., Phenix, A. & Valavarra, K. (2015). "Being the Other": Lived experiences of two Métis occupational therapists. Indigenous Health Research Symposium, November 25, Winnipeg, MB.

Kanitkar, A., **Szturm, T.**, Parmar, S., Gandhi, D., Pandian, J. (2016). Keynote presentation: Innovative Computer Game Based Rehabilitation platform and its uses in gross and fine motor and cognitive impairments. 54th Annual National Conference of Indian Association of Physiotherapy, February 19-21, Shirdi, India.

Kanitkar, A., **Szturm, T.**, Parmar, S., Naik, N. (2016). Innovative Game-Based Rehabilitation Platform for children with motor and cognitive impairments due to neuro-developmental disorders. Platform presentation. 54th Annual National Conference of Indian Association of Physiotherapy, February 19-21, Shirdi, India.

Kanitkar, A., **Szturm, T.**, Parmar S., Gandhi, D., Pandian, J. (2015). Innovative Game-Based Rehabilitation Platform for children with motor and cognitive impairments due to neuro-developmental disorders. Child Health Research Days, University of Manitoba.

Walker, M. (2016). Exercise is Medicine: Do you believe it? Faculty of Medicine, Physical Medicine Student Interest Group.

Webber, S.; Harvey, E.; Dean, B.; Proctor, P. (2016). Data! Data! Improving physiotherapy education through effective program evaluation. Canadian Physiotherapy Association National Congress, Victoria, BC.

Webber, S.C. (2016). What is “high enough” impact for healthy bones – Do I have to run and jump? Health, Leisure and Human Performance Research Day, May 11, University of Manitoba.

Webber, S.C. (2016). Geriatric rehabilitation: how walking volume and walking patterns in hospital compare with those measured after discharge. Centre on Aging Spring Symposium, May 2, University of Manitoba.

Webber, S.C. (2015). Project Plan for Life after discharge: How mobility measured during and immediately post geriatric rehabilitation relates to successful outcomes. Riverview Health Centre Research Meet and Greet, Winnipeg, MB.

Webber, S.C. (2015). Physical activity: Individuals’ perceptions and objective measurement in older adults with chronic disease. Health, Leisure and Human Performance seminar series, Winnipeg, MB.

Wener, P. (2015). A Model for Building Interprofessional Collaborative Relationships. University of Manitoba Faculty of Health Sciences, College of Medicine, Department of Family Medicine Interprofessional Faculty Collaborative Care Forum. October 14, Winnipeg, MB.

Wener, P., Woodgate, R. (2016). Collaborating in the context of co-location: An interprofessional collaborative relationship building model. Health Sciences Centre Occupational Therapy Grand Rounds. January 19, Winnipeg, MB.

West, A., & Parchoma, G. (2016). Assessment in clinical simulation: current practices, changing influences, and the potential role of networked learning in shaping the future. 10th International Conference on Networked Learning. Lancaster, United Kingdom.

West, A., Nickerson, J., Breau, G., **Mai, P.,** & Dolgowicz, C. (2015). Staffing Patterns of Respiratory Therapists in Critical Care Units of Canadian Teaching Hospitals. American Association of Respiratory Care Congress. Tampa, FL, USA.

West, A. (2016). Community Health Action. The Siksika Health Centre Forum on Community Drug Abuse Reduction. Siksika First Nation, AB, Canada.

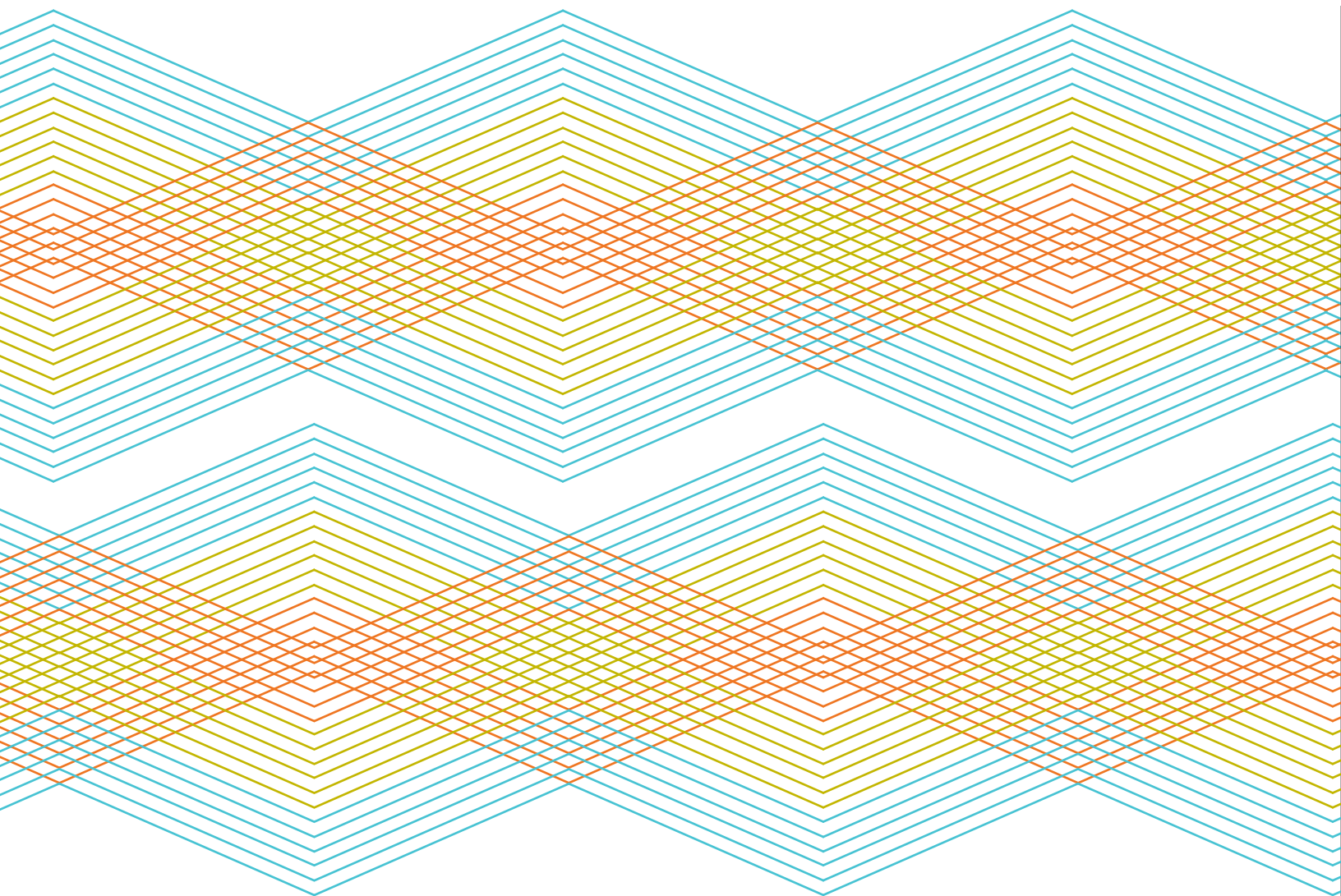
West, A. (2016). The relationship between the level of higher education attained by health professionals and health care outcomes. National Alliance of Respiratory Therapy Regulatory Bodies (NARTRB) - National Stakeholders Meeting on Respiratory Therapy Education. Ottawa, ON, Canada.

CONFERENCES ORGANIZED

Horbal, R., Manitoba Orthopaedic Surgeons Society Conference, Winnipeg, MB 2015.

OTHER RESEARCH ACTIVITIES

Schorr, R., 2015 Study coordinator, EVREST Multicentre, Riverview Health Centre, Winnipeg, MB.



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