

# RESEARCH REPORT

*Radical Collaboration for a Healthier World*



Queen's  
UNIVERSITY

REHABILITATION  
THERAPY





The overarching strategic goal of the School of Rehabilitation Therapy is to lead and inspire positive changes that transform the health and well-being of individuals and communities through the integration of research, education and practice. In pursuing this goal, we have made it a priority to engage in and lead research, evaluation and knowledge translation that contributes to improved understandings of and supports for individuals and communities that are undergoing transitions. Transitions may occur across many dimensions, for example, health status, disability, life roles, systems, settings, and models of care. Through targeted collaboration, we work everyday to become leaders in generating new knowledge and practices that optimize transition experiences and outcomes, and contribute to the advancement of rehabilitation and health services and supports locally, nationally and internationally.

This document is the first-ever research report from the School of Rehabilitation Therapy. It highlights our collective productivity in 2020 and 2021, the diversity of our research, and our strong alignment with and contributions to the research clusters of Queen's Health Sciences. The scholarship summarized in this document is meaningful and impactful. We are proud to share our accomplishments with you!

Marcia Finlayson, Vice-Dean and Director  
2012-2022

Stephanie Nixon, Vice-Dean and Director  
Current



# School of Rehabilitation Therapy Research, 2020 and 2021

By the numbers...

Number of tenured or  
tenure-track faculty:

**22.5 FTE**

Number of continuing faculty:  
**4.8 FTE**

**45** new grants worth **\$6.94M** were received  
by SRT faculty named as Principal Investigator

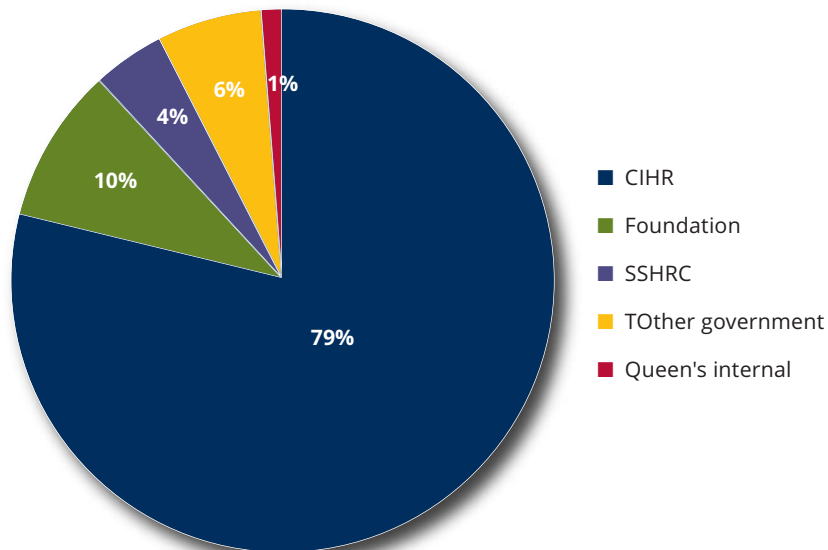
**\$4.96M** of these funds were  
from a Tri-Council agency (CIHR or SSHRC)

**9** of the **45** new grants were collaborations between  
two or more SRT faculty members (**20%**)

**12** additional new grants brought **\$4.88M** of  
funding to Queen's because a member of SRT faculty  
was a named Co-Investigator who received funds  
to support their contributions to the projects.

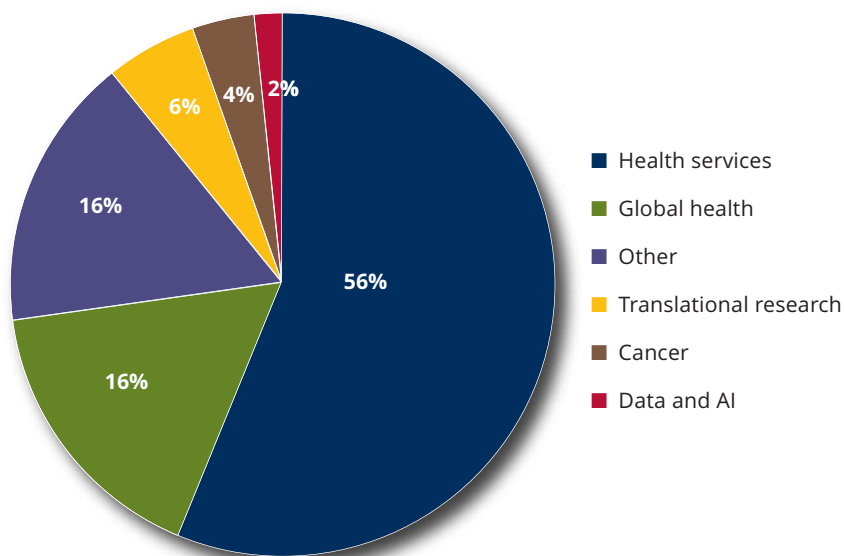
All of this funding was from CIHR.

**Distribution of funding sources for 57 new grants, as a proportion of total dollars awarded (\$11.84M), 2020 and 2021**



**Distribution of new funding dollars from 2020 and 2021, by QHS superclusters\***

\*Based on title only, categorized in a single topic only





**Dr. Heather Aldersey:**

## **Redefining the Social Contract: Rebalancing Formal and Natural Support for People with Disabilities and their Families**

Dr. Heather Aldersey implemented this research project funded by SSHRC Partnership Development Grants. Through partnerships between academic and family researchers and community organizations, this study develops a deep understanding of three Canadian organizations seeking a balance of supports for people with disabilities and their families, whereby (a) formal supports do not undermine or usurp the critical role of natural supports and (b) families and other natural supports do not feel overburdened by support responsibilities.

The study develops an understanding of intentional rebalancing of formal and natural supports of the partner organizations to inform a broader renegotiation of the social contract in favour of families in Canada, explores what a national infrastructure that incentivizes and values natural supports could look like, and supports disability advocates and community organizations to apply study findings within their efforts for social policy change.

Now in its initial year, the research team has commenced data collection and looks forward to engaging in participatory analysis and knowledge mobilization in the months to come.

# New funding awarded to SRT faculty between January 2020 and December 2021

Grant Name	Funding Agency	Dollar Amount	Start Date	End Date	PI (SRT)	Co-PI
Support Indigenous populations and their health organizations through the Alliance platform	Ontario SPOR Support Unit (OSSU)	\$70,800	01-Jan-20	31-Mar-22	Jull	
Developing a National Consensus regarding Physiotherapy Entry-to-Practice Business and Practice Management Core Curriculum Competencies: A Delphi Project	Physiotherapy Foundation of Canada	\$11,400	23-Jan-20	30-May-21	Hopkins-Rosseel	
Patient-reported outcome measures to promote research and collaboration for children with medical complexity and rare diseases	Rare Disease Foundation	\$5,000	10-Feb-20	25-Nov-20	Fayed	
Engaging Stakeholders and Expanding Potential: Planning for a Full-scale Trial of the Stronger at Home Study for Older Adults after Hip Fracture	Canadian Institutes of Health Research	\$20,000	28-Feb-20	31-Dec-20	Auais	
Determining the impact of a physiotherapist led primary care model for low back pain — A cluster randomized controlled trial	Canadian Institutes of Health Research	\$1,403,776	11-Mar-20	30-Sep-23	Miller	Donnelly, Norman
Development and pilot testing of an advanced practice physiotherapy role in chronic pain management	University Hospitals Kingston Foundation — Women's Giving Circle	\$53,163	01-Jul-20	30-Jun-22	Miller	
Barriers and Facilitators to Educational Opportunities for Youth with Disabilities (PRF Education)	The Mastercard Foundation	\$122,073	24-Jul-20	31-Jul-22	Aldersey	
Identifying and Mitigating Educational Challenges that Newcomer School-age Children and Youth Face During COVID-19 Pandemic	Queen's — COVID-19 Rapid Response	\$20,000	10-Aug-20	31-Oct-20	Ghahari	
Accessing Canadian Healthcare for Immigrants: Empowerment, Voice Enablement (ACHIEVE)	Saskatchewan Association of Immigrant Settlement and Integration Agencies	\$3,200	17-Sep-20	13-Mar-22	Ghahari	
SOCIALITE: An Emotional Augmentation System for Children with Profound Communication Disability	Quedden's — QROF — Wicked Ideas	\$75,000	25-Sep-20	31-Dec-23	Fayed	
Expediting research to practice: Optimizing family well-being of emergency responder personnel	SSHRC — PEG	\$25,000	16-Oct-20	31-Aug-21	Cramm	

<b>Grant Name</b>	<b>Funding Agency</b>	<b>Dollar Amount</b>	<b>Start Date</b>	<b>End Date</b>	<b>PI (SRT)</b>	<b>Co-PI</b>
Suicide prevention and families of military and Veteran personnel	Centre of Excellence on PTSD and other related mental health conditions	\$65,000	22-Oct-20	30-Jun-21	Cramm	
Occupational therapy innovation in return to work for first responders	Canadian Occupational Therapy Foundation	\$10,000	27-Oct-20	31-Dec-21	Edgelow	
Employment of persons with disabilities in East Africa	The Mastercard Foundation	\$21,300	20-Nov-20	15-Oct-22	Aldersey	
How are we managing? Time use and well-being during the COVID-19 crisis	SSHRC	\$23,972	23-Nov-20	31-Aug-21	Kessler	
Accessing Community Help for Immigrants: Empowerment, Voice and Enablement	SSHRC Supplement	\$11,350	14-Dec-20	31-Mar-21	Ghahari	McColl
Developing recommendations and guidelines for augmentative and alternative communication to enable persons with motor, communication, and speech impairment to participate in employment	Government of Canada	\$604,350	22-Dec-20	31-Mar-23	Batorowicz	Davies
Compassionate use of the Oregon Roybal Center for Aging and Technology (ORCATECH) home-based pervasive sensing and computing system with people who experience mild cognitive impairment	AMS Phoenix Foundation	\$75,000	01-Jan-21	30-Sep-22	Kessler	
The use of aquatic therapy to manage musculoskeletal pain in Canadian military veterans (Mitacs Elevate PDF — Nick Held)	MITACS Inc.	\$130,000	14-Jan-21	30-Jan-23	Cramm	
Health-related quality of life and aging: measuring what matters to older people (McGill funded)	Canadian Institutes of Health Research	\$44,000	25-Jan-21	30-Sep-25	Auais	
Understanding patterns of healthcare utilization of Canadian Armed Forces Veterans living with chronic pain and their experiences, values, and perceived needs related to chronic pain management: A mixed methods study (PDF Fellowship — Goris Nazari)	Canadian Institutes of Health Research	\$135,000	04-Feb-21	31-Oct-23	Miller	



<b>Grant Name</b>	<b>Funding Agency</b>	<b>Dollar Amount</b>	<b>Start Date</b>	<b>End Date</b>	<b>PI (SRT)</b>	<b>Co-PI</b>
Mastercard Foundation Scholars Program: University of Gondar — Job access and job satisfaction of PWD in Ethiopia	The Mastercard Foundation	\$1,753	17-Feb-21	31-Mar-22	Lysaght	
Rehabilitation Services at the Health Hub	Queen's — Fund for Scholarly Research and Creative Work and Professional Development	\$3,427	03-Mar-21	31-Dec-23	Booth	Law, Miller
Focusing on the family: Enhancing mental wellness in public safety personnel families	Canadian Institutes of Health Research	\$747,186	17-Mar-21	31-Mar-23	Cramm	
Characteristics of veterans with severe chronic pain who are doing well: Life After Services Studies (LASS)	Veterans Affairs Canada	\$5,000	14-May-21	30-Apr-22	Miller	
Development of culturally safe shared decision making (SDM) strategies for cancer screening	Canadian Institutes of Health Research	\$287,623	17-May-21	31-Mar-24	Jull	
Rehabilitation Services at the Health Hub	Queen's — Fund for Scholarly Research and Creative Work and Professional Development	\$3,427	27-May-21	31-Dec-21	Law	Booth, Miller
Supporting Optimal Aging: Social Networks in Naturally Occurring Retirement Communities	SSHRC — PG Stage 1	\$20,000	01-Jun-21	31-May-22	Donnelly	DePaul
Creating Satisfying Engagement in Daily Life through Coaching for People with Multiple Sclerosis	University Hospitals Kingston Foundation — Women's Giving Circle	\$38,000	01-Jul-21	31-Jan-23	Kessler	Finlayson
Making the family visible: A partnership of partners to study, serve, and support the families of military, veterans, and public safety personnel	SSHRC — PDG	\$199,628	21-Jul-21	21-Mar-24	Cramm	
Medavie Health Foundation: Amplifying the impact and reach of research for first responder families	Medavie Health Foundation	\$400,000	22-Jul-21	30-Jun-24	Cramm	
Stronger at Home: A randomized controlled trial to improve functional outcomes for community-dwelling older adults after hip fractures	Canadian Institutes of Health Research	\$971,832	09-Aug-21	30-Sep-26	Auais	Miller

<b>Grant Name</b>	<b>Funding Agency</b>	<b>Dollar Amount</b>	<b>Start Date</b>	<b>End Date</b>	<b>PI (SRT)</b>	<b>Co-PI</b>
Redefining the Social Contract — Rebalancing Formal and Natural Support for People with Disabilities and their Families	SSHRC — PDG	\$198,372	13-Sep-21	21-Mar-23	Aldersey	
Having voice and choice: Communication and participation of adults with developmental disabilities	SSHRC — PEG	\$24,515	24-Sep-21	31-Aug-22	Batorowicz	
Mapping Organizational Factors, Mental Wellness, and Work Outcomes for Public Safety Personnel	SSHRC — SIG Explore	\$7,000	13-Oct-21	31-Mar-23	Edgelow	
Co-creating a wellness research agenda for caregivers of persons with disabilities	Queen's School of Rehabilitation Therapy: Research Excellence Fund	\$10,000	14-Oct-21	31-Aug-22	Fakolade	Bobbette
Walking on 'Four Legs' to Manage Falls and Fear of Falling: A Randomized Pilot Trial of Nordic Walking for Older Adults	Queen's — QROF — Catalyst Fund	\$24,957	18-Oct-21	31-Aug-23	Auais	
Community-based Participatory Research in Health Equity and Inclusive Education Systems for Persons with Disabilities and their Families	Rideau Hall Foundation	\$283,451	18-Oct-21	31-Dec-24	Aldersey	
Mihran and Mary Basmajian Award for Excellence in Health Research	Basmajian Award for Excellence in Health Research	\$2,500	02-Nov-21	01-Nov-22	Cramm	
Advancing team-based primary care for the management of chronic low back pain	Canadian Pain Society	\$2,000	02-Nov-21	30-Apr-22	Miller	
Team-based primary care for the management of chronic low back pain	The Arthritis Society	\$9,500	02-Nov-21	31-Aug-22	Miller	
Storytelling: A participatory approach for compassionate care teaching in the health professions	Queen's — Faculty of Education	\$3,500	06-Dec-21	30-Apr-22	Batorowicz	
Indigenous community research partnerships: A community-centred research approach to develop and conduct Indigenous evaluation of an open access training resource	Canadian Institutes of Health Research	\$100,000	13-Dec-21	30-Sep-22	Jull	

2020-2021 SRT Faculty who are Co-PIs on Grants/Contracts Held Outside of SRT (and/or Queen's)

Grant Name	Funding Agency	Dollar Amount	Start Date	End Date	Institution of PI	PI	Co-PI (SRT)
Addressing unmet and emerging health needs of Canadian adults with intellectual and developmental disabilities and their families during COVID-19	CIHR Operating Grant: COVID Res. Gaps/Prior-Dif. Impacts on Hist. Excl/Underserved Pops	\$246,441	01-Dec-21	30-Nov-22	Centre for Addiction and Mental Health (Toronto)	Lake, Lunsky, Thakur	Bobbette
Reimagining Naturally Occurring Retirement Communities (NORCs) for 21st Century Cities: What works best to support older adults to age in place?	Team Grant: HCIS — LOI — Healthcare systems, services and policies	\$24,949	01-Nov-21	31-Oct-22	Women's College Hospital (Toronto)	Hyyh, Ivers, Rochon, Savage	Depaul, Donnelly
Person-Centred Segmentation: Characterizing Population Segments to Inform Care	CIHR Project Grant — Priority Announcement: Patient-Oriented Research	\$24,949	01-Nov-21	31-Oct-22	Trillium Health Partners (Mississauga, ON)	Kuluski, Rosella	Donnelly
Stakeholder engagement in health care systematic reviews	CIHR Project Grant	\$183,939	01-Oct-21	30-Sep-25	Bruyere Research Institute	Smith, Tugwell, Welch	Jull
Physiotherapy care in Emergency Departments for Patients with Musculoskeletal Disorders: A Pragmatic Cluster Randomized Controlled Trial and Cost Analysis	CIHR Project Grant	\$347,518	01-Apr-21	30-Sep-24	CIUSSS Est de l'Île de Montreal Maisonneuve Rosemont	Desmeules, Emond, Perreault	Miller
ICarePD: a feasibility controlled trial to investigate the addition of an Integrated Care Network to usual physician-centered care to address complex care needs in Parkinson's disease	CIHR Project Grant	\$345,780	01-Apr-21	30-Sep-23	Ottawa Hospital Research Institute	Mestre	Kessler
Health-Related Quality of Life and Aging: Measuring what Matters to Older People	CIHR Project Grant	\$573,750	01-Oct-20	30-Sep-25	Research Institute of the McGill University Health Centre	Kuspinar, Mayo	Auais
Supporting the mental health needs of adults with developmental disabilities and their families during COVID-19: A national capacity building project	CIHR Operating Grant: COVID-19 MH/SU	\$199,996	01-Sep-20	31-Aug-21	Centre for Addiction and Mental Health (Toronto)	Durbin, Lake, Lunsky, Thakur	Bobbette
Building Resilience through integrated knowledge transfer in police organizations: A Case Study Series	Team Grant: Mental Wellness in Public Safety Team Grants	\$834,021	01-Apr-20	31-Mar-23	Thompson Rivers University (Kamloops, BC)	Anderson	Cramm
An Augmented Training Program for preventing post-traumatic stress injuries among diverse public safety personnel	Team Grant: Mental Wellness in Public Safety Team Grants	\$989,926	01-Apr-20	31-Mar-23	University of Regina (Saskatchewan)	Carleton	Cramm
A randomized control trial of a novel approach to cognitive training in public safety personnel with post traumatic stress injuries	Team Grant: Mental Wellness in Public Safety Team Grants	\$1,024,419	01-Apr-20	31-Mar-23	McMaster University	Lanius, McKinnon, Slade	Cramm
Surviving Gynecological Cancer in small urban and rural communities: Using integrated knowledge translation methods to develop a framework to facilitate survivor preparedness to transition out of cancer treatment	CIHR Catalyst Grant: Patient-Oriented Research	83,038	01-Mar-20	28-Feb-21	Queen's University School of Nursing	Galica, Robb	Jull

# Publications by Faculty in Queen's Rehabilitation Therapy 2020 and 2021

## Publications in 2020

### Dr. Beata Batorowicz:

#### Robots, AI and Human-Machine Interfaces in Augmented and Alternative Communication for Children with Neuromotor Disabilities

Drs. Batorowicz and Sidney Givigi (Queen's School of Computing) are collaborating to study how robotics and artificial intelligence can support participation of children and youth with disabilities.

In a research project funded by the New Frontiers in Research Fund — Exploration, they are working together with an interdisciplinary team spanning multiple academic units (Drs. Clare Davies — Engineering, Nicholas Graham — Computing, Jordan Shurr — Education, and Tracy Trothen — Religion) to explore technology use in peer interactions of children with motor and speech impairments who use communication aids. The aim of this project is to model, better understand, and enhance pragmatic reasoning in children with neuromotor disabilities by providing them with increased control of their environment through collaborative play using advanced robotic technology.

- 1 Aburub, A. S., Phillips, S. P., Curcio, C. L., Guerra, R. O., & **Auais, M.** (2020). Fear of falling in community-dwelling older adults diagnosed with cancer: A report from the international mobility in aging study (IMIAs). *Journal of Geriatric Oncology*, *11*, 603–609. <https://dx.doi.org/10.1016/j.jgo.2019.09.001>
- 2 Adugna, M., Shehata, S., Nabbouh, F., & **Ghahari, S.** (2020). Barriers and facilitators to healthcare access for children with disabilities in low and middle income sub-Saharan African countries. *BMC Health Services Research*, *20*(1), 1–11. <https://doi.org/10.1186/s12913-019-4822-6>
- 3 Ahmadi Kahjoogh, M., **Kessler, D.**, Hosseini, S. A., Rassafiani, M., Khankeh, H., & Akbarfahimi, N. (2020). Occupational performance coaching: Goal barriers and beneficial facilitators. *International Journal of Therapy and Rehabilitation*. <https://doi.org/10.12968/ijtr.2018.0092>
- 4 **Bobbette, N.**, & Hamdani, Y. (2020). Critical considerations for engaging in inclusive health research with individuals with intellectual disability. *Evidence-Based Nursing*. doi:10.1136/ebnurs-2019-10321
- 5 **Bobbette, N.**, Hamdani, Y., & Lunskey, Y. (2020). Key considerations for providing self-management support to adults with intellectual and developmental disabilities. *Current Developmental Disorders Reports*, *7*, 188–195. <https://doi.org/10.1007/s40474-020-00207-9>
- 6 **Bobbette, N.**, Ouellette-Kuntz, H., Tranmer, J., **Lysaght, R.**, Ufholz, L.-A., & **Donnelly, C.** (2020). Adults with intellectual and developmental disabilities and interprofessional, team-based primary health care: A scoping review. *JBI Evidence Synthesis*, *18*(7), 1470–1514.
- 7 Brewer, E., Carnevale, N., Duscharm, M., Ellis, N., Khan, M., Vader, K., ... **Miller, J.** (2020). Physiotherapist experiences and perspectives with implementation of an evidence-based chronic pain self-management program in primary health care: A qualitative study. *Physiotherapy Canada*. <http://doi.org/10.3138/ptc-2019-0062>
- 8 Carleton, R. N., Afifi, T. O., Turner, S., Taillieu, T., Vaughan, A. D., Anderson, G. S., Ricciardelli, R., MacPhee, R. S., **Cramm, H. A.**, Czarnuch, S., Hozempa, K., & Camp, R. D. (2020). Mental health training, attitudes toward support, and screening positive for mental disorders. *Cognitive Behaviour Therapy*, *49*(1), 55–73. <https://doi.org/10.1080/16506073.2019.1575900>
- 9 Casey, L., **Fucile, S.**, Flavin, M., & Dow, K. (2020). A two-pronged approach to reduce noise levels in the neonatal intensive care unit. *Early Human Development*, *146*, 105073. <https://doi.org/10.1016/j.earlhumdev.2020.105073>



- 10 Chala, M. B., **Donnelly, C.**, Wondie, Y., **Ghahari, S.**, & **Miller, J.** (2020). Cross-cultural adaptation and validation of the Amharic version of the pain Self-efficacy Questionnaire in people with low back pain in Ethiopia. *BMC Musculoskeletal Practice*, *11*, 1. <http://doi.org/10.1186/s40697-016-0110-0>
- 11 Chichaya, T., Joubert, R., & **McColl, M. A.** (2020). Voices on disability issues in Namibia: Evidence for entrenching occupational justice in disability policy formulation. *Scandinavian Journal of Occupational Therapy*, *27*(1), 14–27.
- 12 **Cramm, H.**, Godfrey, C. M., **Murphy, S.**, McKeown, S., & Dekel, R. (2021). Experience of children growing up with a parent who has military-related post-traumatic stress disorder: A qualitative systematic review. *JBI Evidence Synthesis*. <https://dx.doi.org/10.11124/JBIES-20-00229>
- 13 **Cramm, H.**, Norris, D., Fear, N. T., & Dekel, R. (2021). Military families and military-to-civilian transition: The current state of play. *BMJ Military Health*. <https://dx.doi.org/10.1136/bmjmilitary-2021-001815>
- 14 **Cramm, H.**, Norris, D., Schwartz, K. D., Tam-Seto, L., Williams, A., & Mahar, A. (2020). Impact of Canadian Armed Forces veterans' mental health problems on the family during the military to civilian transition. *Military Behavioral Health*, *8*(2), 148–158. doi:10.1080/21635781.2019.1644260
- 15 Dansereau, A., Hunter, S. W., Gomez, F., Guralnik, J. M., **DePaul, V. G.**, & **Auais, M.** (2020). Global cognition predicts the incidence of poor physical performance among older adults: A cross-national study. *Geriatrics & Gerontology International*, *20*, 218–222. <https://dx.doi.org/10.1111/ggi.13864>
- 16 Davison, P., Wilkinson, R., **Miller, J.**, & **Auais, M.** (2020). Using electrical stimulation to increase muscle strength and reduce pain after hip fractures: A scoping review with a stakeholder consultation process. *Physiotherapy Theory and Practice*.
- 17 **DePaul, V. G.**, Bosch, J., Oczkowski, W. J., Wishart, L., O'Donnell, M., & Hart, R. G. (2020). Promoting Independent Mobility-related Physical ACTivity (IMPACT) in an inpatient stroke rehabilitation unit: A proof-of-concept evaluation of self-management intervention. *Disability and Rehabilitation*, *42*(22), 3172–3181.
- 18 **Deshpande, N.**, Laurie, S. S., Lee, S., Miller, C. A., Mulavara, A. P., Peters, B. T., Reschke, M. F., Stenger, M. B., Taylor, L. C., Wood, S. J., Clément, G. R., & Bloomberg, J. J. (2020). Vestibular and cardiovascular responses after long-duration spaceflight. *Aerospace Medicine and Human Performance*, *91*(8), 621–627. <https://doi.org/10.3357/AMHP.5502.2020>

## Dr. Mohammad Auais:

### Nordic Walking to Manage Falls and Fear of Falling

Each year, more than one-third of older adults in Canada experience a fall. Exercise is one of the most effective interventions to reduce fall risk and fear of falling (FOF). However, current fall-prevention exercise programs are expensive and lack good adherence. Nordic Walking (NW; i.e., walking with poles) is a pleasant, low-risk, low-tech, and inexpensive alternative exercise program. Yet, the effect of NW on reducing risk and FOF has not yet been tested.

This study will be a two-arm, parallel, single-blind, randomized controlled pilot trial to test an NW program's feasibility and safety among community-dwelling older adults at risk of falling. The research team will recruit 40 older adults at risk of falling and randomly assign them into one of two groups: a 10-week NW intervention group or an attention control group. The intervention will consist of both independent (unsupervised) and group (supervised) sessions that apply coaching principles.

This project brings together Dr. Mohammad Auais, as the primary investigator, and Drs. Dorothy Kessler, Catherine Donnelly, and Vincent DePaul as co-investigators.

## Dr. Heidi Cramm:

### Focusing on Families of Military Members, Veterans and Public Safety Personnel

Dr. Heidi Cramm's research focuses on improving the health and well-being of families of military members, veterans, and public safety personnel, a methodologically and theoretically complex subject of study. These families face unique health needs that are poorly recognized, understood, or resourced. She consolidated her program of research under the banner of the Families Matter Research Group. Dr. Cramm is leading multiple research studies, one of which is a SSHRC-funded partnership development grant to activate a formal partnership of partners for those who serve, study, and support the families of military, veteran, and public safety personnel. Another project, funded through a CIHR Team Grant, is focused on enhancing mental wellness in families of public safety personnel.

- 19 **Donnelly, C.**, Ashcroft, R., **Bobbette, N.**, Mills, C., Mofina, A., Tran, T., Vader, K., Williams, A., Gill, S., & **Miller, J.** (2021). Interprofessional primary care during COVID-19: A survey of the provider perspective. *BMC Family Practice*, 22(1), 31. <https://doi.org/10.1186/s12875-020-01366-9>
- 20 **Edgelow, M.**, & **Cramm, H.** (2020) Developing an occupation-centred framework for trauma intervention. *Occupational Therapy in Mental Health*, 36(3), 270–290. doi:10.1080/0164212X.2020.1808148
- 21 Egan, M., **Kessler, D.**, Duong, P., Gurgel-Juarez, N., Linkewich, E., Sikora, L., Montgomery, P., & Chopra, A. (2020). Participation-focused interventions for stroke rehabilitation: A scoping review protocol. *JBI Evidence Synthesis*, 18(12), 2666–2672. <https://doi.org/10.11124/JBISRIR-D-19-00387>
- 22 **Fakolade, A.**, Walters, A., Cameron, J., Latimer-Cheung, A., & Pilutti, L. A. (2020). Healthy together: A systematic review of behavioural theory and techniques used in dyadic health promotion interventions for persons with chronic neurological conditions and their caregivers. *Patient Education and Counselling*, 103(4), 788–803.
- 23 Alarcos, C., **Fayed, N.**, & Jerome, B. (n.d.). Refinements of the ICF Linking Rules to strengthen their potential for establishing comparability of health information. *Disability and Rehabilitation*, 41(5), 574–583.
- 24 **Fayed, N.**, Cameron, S., Fraser, D., Cameron, J. I., Al-Harbi, S., Simpson, R., ... Choong, K. (2020). Priority outcomes in critically ill children: A patient and parent perspective. *American Journal of Critical Care: An Official Publication, American Association of Critical-Care Nurses*, 29(5), e94–e103.
- 25 **Fayed, N.**, Cohen, E., & Houtrow, A. (2020). Quality of life cannot be predicted from a brain scan. *Developmental Medicine and Child Neurology*, 62(4), 412.
- 26 Frank, L., Morton, S. C., Guise, J. M., **Jull, J.**, Concannon, T. W., Tugwell, P., & Multi Stakeholder Engagement (MuSE) Consortium (2020). Engaging patients and other non-researchers in health research: Defining research engagement. *Journal of General Internal Medicine*, 35, 307–314. <https://dx.doi.org/10.1007/s11606-019-05436-2>
- 27 Freitas, R. M., Ribeiro, K. F., Barbosa, J. S., Gomes, C., **Deshpande, N.**, & Guerra, R. O. (2022). Validity and reliability of the Brazilian activities-specific balance confidence scale and determinants of balance confidence in community-dwelling older adults. *Physiotherapy Theory and Practice*, 38(2), 345–354. <https://doi.org/10.1080/09593985.2020.1747122>
- 28 **Fucile, S.**, Caulfield, A., & Geleynse, S. (2020). An oral feeding model for infants in the NICU: A checklist for practitioners. *Neonatal Network*, 38(6), 348–356.



- 29 **Fucile, S.**, Gallant, H., & Patel, A. (2020). Long-term developmental outcomes of Neonatal Abstinence Syndrome (NAS): A scoping review. *Physical & Occupational Therapy in Pediatrics*, 612, 1–14.
- 30 **Fucile, S.**, Samson, J., Rockley, J., & Dow, K. (2020). Goals of parents who children are in the NICU: An explorative study. *Advances in Neonatal Care*, 36(6), 499–505. <http://doi.org/10.1097/ANC.0000000000000725>
- 31 **Fucile, S.**, Sinclair, M., Macfarlane, V., & Samdup, D. (2020). Risk factors associated with oral feeding difficulties in children who were born preterm: A scoping review. *Advances in Neonatal Care*.
- 32 **Ghahari, S.**, Burnett, S., & Alexander, L. (2020). Development and pilot testing of a health education program to improve immigrants' access to the Canadian health services. *BMC Health Services Research*, 20(321), 1–12. <https://doi.org/10.1186/s12913-020-05180-y>
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## Dr. Megan Edgelow:

### Examining Workplace Mental Health Interventions

Workplace mental health is relevant to public safety organizations due to the exposure many public safety personnel (PSP) have to psychological trauma in the course of their daily work. While the importance of attending to PSP mental health has been established, the implementation of workplace mental health interventions is not as well understood.

This research team conducted a scoping review, using JBI methodology, that found 89 relevant citations that were largely published within the last decade, most frequently from Western nations, and most often applied to police, followed by firefighters. Interventions focused most often on stress management and resilience, and a frequent implementation strategy was multi-session group training. Comprehensive quality-improvement initiatives, a focus on supervisors and managers, and interventions across primary, secondary, and tertiary prevention were infrequent. A focus across a range of PSP, including paramedics, corrections officers, and emergency dispatchers, using implementation strategies beyond group training, is suggested.

Further research is needed to establish which programs and implementation strategies are most effective so that PSP get the full benefit of mental health prevention and treatment programs within the workplace.

## Dr. Sandra Fucile:

### A Novel Tool for the Evaluation of Oral Feeding Skills in Infants

Dr. Sandra Fucile and her Infant Research Team at Kingston Health Sciences Centre developed a nipple-monitoring device for the evaluation of oral feeding disorders in infants with complex health conditions. Up to 40 per cent of infants with complex medical conditions may encounter oral feeding disorders during their stay in the neonatal intensive care unit. Oral feeding disorders are prominent concerns among parents and health professionals because they often lead to long-term feeding disorders affecting infants' growth and development, and they impact families' quality of life.

A quasi-experimental study was undertaken to test the efficacy and safety of the novel nipple-monitoring device in 16 infants with complex medical conditions. This study has shown that the nipple-monitoring device is a novel method for accurate assessment and intervention planning of oral feeding skills and will be a significant contribution towards enhancing the care of infants with oral feeding disorders, thereby leading to improved growth, development, and quality of life in Canada's highest-risk population.

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## Dr. Setareh Ghahari:

### Understanding the Impact of COVID-19 Pandemic and Lockdown on Immigrants

This study explored the impacts of the COVID-19 pandemic and lockdowns on immigrants' occupational engagement. Immigrants to Canada were invited to complete an online survey that included questions on the continuation or disruption of their daily occupations. The questions focused on employment, engaging in self-care activities, family-related activities, social life, and health-related activities. Data were collected from 2,473 adults.

Immigrants experienced significant disruption and challenges in many areas of daily occupations. Sixty-one per cent of respondents worked for fewer hours during the pandemic. The resulting financial burden forced forty-eight per cent to eat less or miss a meal. Twenty-five per cent of those with school-age children experienced difficulty with online education. Fifty-nine per cent experienced social problems or conflicts in romantic relationships. Currently, five undergraduate students are involved with further data analysis and are preparing manuscripts to be submitted for publication.

## Dr. Rosemary Lysaght:

### Examining the Impact of Work Integration Social Enterprises (WISE)

With funding from Employment and Social Development Canada, and together with Queen's co-investigators from Smith School of Business and the School of Policy Studies, and from University of Toronto and Glasgow Caledonian University, Drs. Lysaght and Terry Krupa (SRT Professor Emeritus) have been conducting a five-year study of work integration social enterprises (WISE) in Ontario, how they impact the lives of people with mental illnesses and addictions, and how they change communities.

This project brings together WISE experts and researchers in a collaborative process that is systematically examining WISE processes and outcomes over time. The research team of interviewers in five cities conducted interviews with WISE workers at seven work integration social enterprises that included health, social, and economic indicators. Quantitative interviews were repeated every 18 months, and a sub-sample of 22 workers was purposively selected for in-depth qualitative interviews. Semi-structured qualitative interviews were also conducted with WISE administrators (n = 7) and front-line supervisors (n = 14). Findings will inform government policy on WISE and will identify support needs within the sector.

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## Dr. Sunita Mathur:

### Building Capacity to Detect and Address Sarcopenia

Muscle wasting and muscle weakness that occur with aging and chronic disease, known as sarcopenia, has important health consequences including reduced mobility, higher risk for falls, increased risk of hospitalizations, and even death.

Dr. Mathur recently submitted an infrastructure grant application to establish a new research lab, the Muscle Imaging and Performance Lab, in the Queen’s School of Rehabilitation Therapy.

Dr. Mathur’s research program will focus on two themes: developing new ways to detect sarcopenia and testing novel exercise programs, including tele-rehabilitation, to mitigate sarcopenia. Dr. Mathur’s research utilizes lab-based measurements including computerized dynamometry and imaging technologies such as ultrasound, and methods that are readily translated to the clinical setting, both in-person and through tele-rehabilitation.

Dr. Mary Ann McColl:

## Discrepancy Analysis — An Innovative Approach to Promote Inclusion

Disability equity and inclusion in Canada seems on the surface to be relatively enlightened, but when we delve deeper, the story may not be so positive.

Every year in every jurisdiction in Canada, there are more human rights claims based on disability than on any other cause. With funding from the Social Sciences and Humanities Research Council (SSHRC) and Accessibility Standards Canada, this study developed and pilot-tested an innovative approach to promoting equity, inclusion, and access for disabled persons, called Discrepancy Awareness. This approach uses dramatic simulations of potentially discriminatory situations and invites participants to try on different behaviours in response to these challenges.

Working with partners at The University of British Columbia and CNIB, the research team engaged the services of playsthatwork inc., a corporate training company that specializes in live simulations. The team ran two workshops — one for employers involving a blind job applicant, and one for taxi and ride-share drivers involving a ride-seeker with a wheelchair. Following the three-hour online workshop, notable changes were detected in implicit attitudes toward disability, particularly in understanding the challenges disabled individuals face in these two situations. Plans are underway to extend the project to two additional situations — one involving the use of service animals and one involving procurement challenges.

Although significant progress has been made in Canada towards a sound policy infrastructure for accessibility, it is impossible to legislate attitudes. Creative solutions like this can offer a strategy for promoting constructive attitudes and improving equity and inclusion.

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## Publications in 2021

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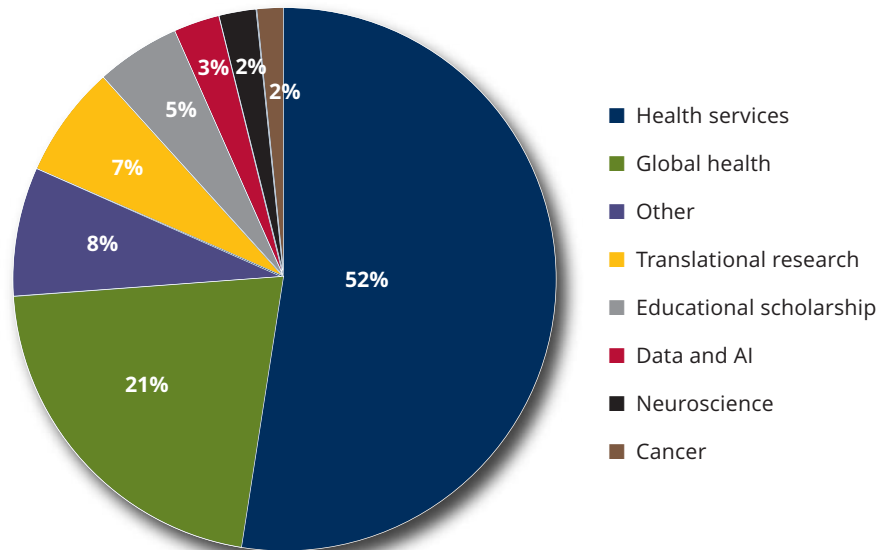


## Books and Book Chapters

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## Distribution of 2020 and 2021 publications, by QHS superclusters\*

\* Based on title only, categorized in a single topic only



**174** journal articles  
in **104** different journals

**1** book **7** book chapters

**24%** of all publications  
were collaborations among  
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