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RESEARCH ACTIVITIES

2021/2022

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OVERVIEW – 2021/2022

Respiratory Medicine

Amputee Research

Spasticity Research



Publications

46



Presentations

41



Awards

11



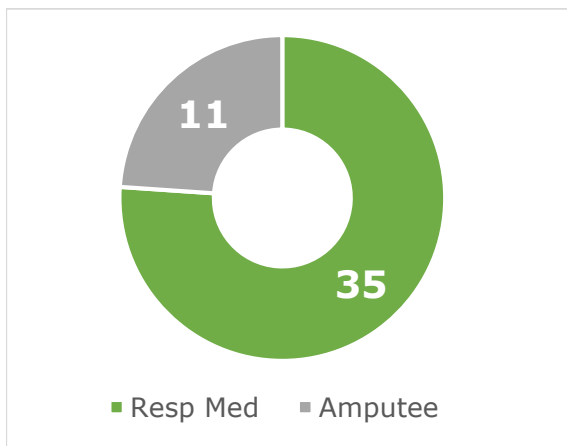
New Studies

11

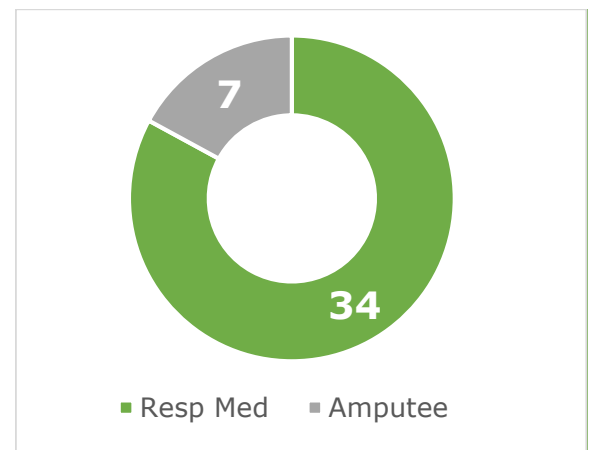
New Studies



Publication Themes



Presentation Themes



1.0 PEER-REVIEWED PUBLICATIONS

1.1 Respiratory Medicine

- Tiemstra S, Liang H, Gooder M, Livings N, Spencer A, Beavers L, Brooks D, Miller E. Updating the Evidence: Suctioning Practices of Physiotherapists in Ontario. *Physiotherapy Canada*. Spring 2021. 73(2):147-156. <https://doi.org/10.3138/ptc-2019-0113>
- McDuff K, Benaim A, Wong M, Burley A, Gandhi P, Wallace A, Brooks D, Vaughn-Graham J, Patterson KK. Analyzing the Eye Gaze Behaviour of Students and Experienced Physiotherapists during Observational Movement Analysis. *Physiotherapy Canada*. Spring 2021. 73(2):129-135. <https://doi.org/10.3138/ptc-2019-0047>
- Alsubheen A, Goldstein R, Wshah A, Brooks D. Psychometric Properties of Patient-Reported Outcome Measures Assessing Self-Efficacy in Patients with Chronic Obstructive Pulmonary Disease: A Systematic Review. *COPD – Journal of Chronic Obstructive Pulmonary Disease*. 2021 Apr. 18(2):254-269. <https://doi.org/10.1080/15412555.2021.1897559>
- Holden M, Fyfe M, Poulin C, Bethune B, Church C, Hepburn P, Afreixo V, Brooks D, Oliveira A. Handgrip Strength in Individuals with Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-Analysis. *Physical Therapy*. 2021 Jun. 101(6):pzab057. <https://doi.org/10.1093/ptj/pzab057>
- Beauchamp MK, Ellerton C, Kirkwood R, Brooks D, Richardson J, Goldstein RS, Pugsley S, Hatzoglou D. Feasibility of a 6-Month Home-based Fall Prevention Exercise Program in Older Adults with COPD. *International Journal of Chronic Obstructive Pulmonary Disease*. 2021 Jun. 16:1569-1579. <https://doi.org/10.2147/copd.s309537>
- Ahden S, Ngo V, Hoskin J, Mach V, Magharious S, Tambar A, Brooks D, Hébert A-A, Marzolini S. Inclusion of People with Peripheral Artery Disease in Cardiac Rehabilitation Programs: A Pan-Canadian Survey. *Heart, Lung and Circulation*. 2021 Jul. 30(7):1031-1043. <https://doi.org/10.1016/j.hlc.2020.12.018>
- Boughen K, Dullemond S, Neil T, Bilgasem A, Lutowicz K, Brooks D, Vaughan-Graham J, Hastings T. Cranial Nerve Noninvasive Neuromodulation in Adults with Neurological Conditions: Protocol for a Scoping Review. *JMIR Research Protocols*. 2021 Jul. 10(7):e29965. <https://doi.org/10.2196/29965>
- Van der Heide I, Poureslami I, Shum J, Goldstein RS, Gupta S, Aaron S, Lavoie K, Poirier C, Fitzgerald M. Factors affecting health literacy as related to asthma and COPD management: Learning from patient and healthcare professional viewpoints. *HLRP: Health Literacy Research and Practice*. 2021 Jul;5(3):e179-e193.
- Snyder N, Wilson R, Finch L, Gallant B, Landa C, Frankel D, Brooks D, Packham T, Oliveira A. The Role of Occupational Therapy in Pulmonary Rehabilitation: A Scoping Review Protocol. *JMIR Research Protocols*. 2021 Jul. 10(7):e30244. <https://doi.org/10.2196/30244>

- O'Hoski S, Harrison SL, Butler S, Goldstein R, Brooks D. Clinician-Led Balance Training in Pulmonary Rehabilitation. *Physiotherapy Canada*. 2021 Aug. 73(3):235-243. <https://doi.org/10.3138/ptc-2019-0111>
- Wickerson L, Brooks D, Granton J, Reid D, Rozenberg D, Singer L, Mathur S. Interval Aerobic Exercise in Individuals with Advanced Interstitial Lung Disease: A Feasibility Study. *Physiotherapy Theory and Practice*. 2021 Sep. 37(9):1034-1042. <https://doi.org/10.1080/09593985.2019.1678207>
- Oliveira A, Quach S, Alsubheen A, Dasouki S, Walker J, Brooks D, Goldstein R. Rapid Access Rehabilitation after Exacerbations of COPD: A Qualitative Study. *Respiratory Medicine*. 2021 Sep. 186:106532. <https://doi.org/10.1016/j.rmed.2021.106532>
- O'Hoski S, Richardson J, Kuspinar A, Wald J, Goldstein RS, Beauchamp MK. A brief measure of life participation for people with COPD: Validation of the computer adaptive test version of the late life disability instrument. *COPD: Journal of Chronic Obstructive Pulmonary Disease*. 2021 Aug. 18(4):385-392. <https://doi.org/10.1080/15412555.2021.1934821>.
- Li LSK, Butler SJ, Ellerton L, Goldstein RS, Brooks D. Pain among Individuals with Chronic Respiratory Diseases Attending Pulmonary Rehabilitation. *Physiotherapy Canada*. 2021 Nov. 73(4):304-312. <https://doi.org/10.3138/ptc-2020-0015>
- Flora S, Hipolito N, Brooks D, Marques A, Morais N, Silva CG, Silva F, Ribeiro J, Caceiro R, Carreira BP, Burtin C, Pimenta S, Cruz J, Oliveira A. Phenotyping adopters of Mobile Applications among Patients with COPD: A Cross-Sectional Study. *Frontiers of Rehabilitation Science*. 2021 Nov. <https://doi.org/10.3389/fresc.2021.729237>
- Pimenta A, Silva CG, Flora S, Hipólito N, Burtin C, Oliveira A, Morais N, Pereira MB, Pereira Carreira B, Januário F, Andrade L, Martins V, Rodrigues F, Brooks D, Marques A, Cruz J. What Motivates Patients with COPD to be Physically Active? A Cross-sectional Study. *Journal of Clinical Medicine*. 2021 Nov. 10(23):5631. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc8658241/>
- Alsubheen S, Oliveira A, Habash R, Goldstein R, Brooks D. Systematic Review of Psychometric Properties and Cross-Cultural Adaptation of University of California and Los Angeles Loneliness Scale in Adults. *Current Psychology*. 2021 Nov 12:1-15. <https://doi.org/10.1007/s12144-021-02494-w>
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- Beauchamp M, Janaudis-Ferreira T, Wald J, Acheron R, Bhutani M, Bourbeau J, Brooks D, Dechman G, Goldstein R, Goodridge D, Hernandez P, Marciniuk D, Penz E, Ryerson CJ, Saey D, Stickland MK, Weatherald J. Canadian Thoracic Society Position Statement on Rehabilitation for COVID-19 and Implications for Pulmonary Rehabilitation. *Canadian Journal of Respiratory, Critical Care, and Sleep Medicine*. 2021 Nov. 6(1):9-13. <https://doi.org/10.1080/24745332.2021.1992939>

Marques A, Cruz J, Brooks D. Interventions to Support Informal Caregivers of People with Chronic Obstructive Pulmonary Disease: A Systematic Literature Review. *Respiration*. 2021 Dec. 100(12):1230-1242. <https://doi.org/10.1159/000517032>

Hill K, Dolmage TE. Take a Deep Breath: More Support for Noninvasive Ventilation During Exercise in People With COPD. *CHEST*. 2021 Dec; 160:1991-1992. <https://doi.org/10.1016/j.chest.2021.09.001>

Kaur I, Pang XXE, Liang M, Zhang CX, Turgeon A, Yeung J, Brooks D, Vaughan-Graham J. The Clinician Scientist: How Rehabilitation Fares - A Scoping Review. *American Journal of Health Research*. 2021 Dec. 9(6):246-268.

Lee LS, Banks L, Oh PI, Brooks D, Colella TJF. Capturing the Perspectives of Women with Coronary Artery Disease regarding Interval Training or Continuous Exercise in Cardiac Rehabilitation. *Disability and Rehabilitation*. 2022. 44(1):68-78. <https://doi.org/10.1080/09638288.2020.1756469>

Holland AE, Cox NS, Houchen-Wolloff L, Rochester CL, Garvey C, ZuWallack R, Nici L, Limberg T, Lareau SC, Yawn BP, Galwicki M, Troosters T, Steiner M, Casaburi R, Clini R, Goldstein RS, Singh S. on behalf of the ATS Assembly on Pulmonary Rehabilitation. Defining modern pulmonary rehabilitation. An official American Thoracic Society Workshop Report. *Annals of ATS*. 2021 May;18(5):e12-e29. <https://doi.org/10.1513/AnnalsATS.202102-146ST>

Wshah A, Selzler AM, Hill K, Goldstein RS, Brooks D. Embedding a Behaviour Change Program Designed to Reduce Sedentary Time within a Pulmonary Rehabilitation Program is Feasible in People with COPD. *Journal of Cardiopulmonary Rehabilitation and Prevention*. 2022 Jan. 42(1):45-51. <https://doi.org/10.1097/hcr.0000000000000624>

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Rose L, Fisher T, Pizzuti R, Amin R, Croxford R, Dale CM, Goldstein RS, Katz S, Katz L, McKim D, Nonoyama M, Tandon A, Gershon A. Healthcare use, costs and survival trajectory of home mechanical insufflation-exsufflation: health database case control study. *Respiratory Care*. 2022 Feb;67(2):191-200.

Marques A, Souto-Miranda S, Machado A, Oliveira A, Jácome C, Cruz J, Enes V, Martins V, Andrade L, Valente C, Ferreira D, Simão P, Brooks D, Tavares AH. COPD Profiles and Treatable Traits using Minimal resources: Identification, Decision Tree and Stability over Time. *Respiratory Research*. 2022 Feb. 23:30. Published online. <https://dx.doi.org/10.1186%2Fs12931-022-01954-6>

Paixão C, Rocha V, Brooks D, Marques A. Unsupervised Physical Activity Interventions for People with COPD: A Systematic Review and Meta-Analysis. *Pulmonology*. 2022 Feb.

S2531-0437(22)00016-2. Published online ahead of print.
<https://doi.org/10.1016/j.pulmoe.2022.01.007>

Michaelchuk W, Oliveira A, Marzolini S, Nonoyama M, Maybank A, Goldstein R, Brooks D. Design and Delivery of Home-based Pulmonary Rehabilitation Programs in COPD: A Systematic Review and Meta-Analysis. *International Journal of Medical Informatics*. 2022 Mar. 162:104754. Published online ahead of print.
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Dolmage TE, Goldstein RS. Partitioning Exercise. In: Ambrosino N, Donner CF & Goldstein RS, editor(s). *Pulmonary Rehabilitation*. Second. Boca Raton (United States): CRC Press - Taylor & Francis Group; 2021. p. 297-308. ISBN: 978-1-138-49881-5.

Nicholson JM, Goldstein RS, Rozenberg D. Management of suppurative lung diseases. In: Ambrosino N, Donner CF & Goldstein RS, editor(s). *Pulmonary Rehabilitation*. Second. Boca Raton (United States): CRC Press - Taylor & Francis Group; 2021. p. 379-390. ISBN: 978-1-138-49881-5.

Nici L, Goldstein RS. Pulmonary Rehabilitation: The Development of a Scientific Discipline. In: Ambrosino N, Donner CF & Goldstein RS, editor(s). *Pulmonary Rehabilitation*. Second. Boca Raton (United States): CRC Press - Taylor & Francis Group; 2021. p. 21-28. ISBN: 978-1-138-49881-5.

1.2 Amputee

King LK, Krystia O, Waugh EJ, MacKay C, Stanaitis I, Stretton J, Weisman A, Ivers NM, Parsons JA, Lipscombe L, Hawker GA. Barriers and enablers to health care providers assessment and treatment of knee osteoarthritis in persons with type 2 diabetes mellitus: A qualitative study using the Theoretical Domains Framework. *Osteoarthritis and Cartilage Open*: 2022. <https://doi.org/10.1016/j.ocarto.2022.100299v>

King LK, Krystia O, Waugh EJ, MacKay C, Stanaitis I, Stretton J, Weisman A, Ivers NM, Parsons JA, Lipscombe L, Hawker GA. Understanding the behavioural determinants of seeking and engaging in care for knee osteoarthritis in persons with type 2 diabetes mellitus: A qualitative study using the theoretical domains framework, *Osteoarthritis and Cartilage Open*, Volume 4, Issue 4, 2022.

Wasilewski, M. B., Rios J, Simpson R, Hitzig SL, Gotlib Conn L, MacKay C, Mayo AL and Robinson L. Peer support for traumatic injury survivors: a scoping review. *Disability and Rehabilitation*. 2022; 1-34.

Lee L, Hitzig S, Mayo A, Devlin M, Dilkas S, MacKay C. Factors Influencing Physical Activity and Exercise Among Individuals with Lower Limb Amputations: A Qualitative Study. *Disability and Rehabilitation*: April 2022.
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Mayo, AL, Viana R, Dilkas S, Payne M, Devlin M, MacKay C; Cimino SR, Guilcher SJT; Hitzig SL. Self-reported health condition severity and ambulation status post major dysvascular limb loss, *Prosthetics and Orthotics International*: March 22, 2022. 10.1097/PXR.000000000000106 doi: 10.1097/PXR.000000000000106
 MacKay C, Lee L, Best K, Campbell J, Cimino S, Cowley H, Devlin M, Dilkas S, Landry M, Marzolini S, Mayo A, Oh P, Payne M, Viana R, Totosy de Zepetnek J, Domingo A, King S, Miller WC, Robert M, Tang A, Zidarov D, Zucker-Levin A, Hitzig S. Developing a Research

Agenda on Exercise and Physical Activity for People with Limb Loss in Canada. *Disability and Rehabilitation*. 2021 Nov 29;1-9. doi: 10.1080/09638288.2021.2003877

Hitzig S, Dilkas S, Payne M, MacKay C, Viana R, Devlin M, Cimino S, Guilcher S, Mayo A, Hitzig S. An Examination of Social Disconnectedness and Perceived Social Isolation on Health and Life Satisfaction in Community-dwelling Adults with Dysvascular Lower Limb Loss. *Prosthetics and Orthotics International*, 2021. doi: 10.1097/PXR.000000000000069

Cimino S, Vijayakumar A, MacKay C, Mayo AL, Hitzig S, Guilcher SJT. Sex and gender differences in quality of life and related domains for individuals with adult acquired lower-limb amputation: A scoping review. *Disability and Rehabilitation*. 2021 Sep 21;1-27. doi: 10.1080/09638288.2021.1974106

*Roberts E, Burhani L, Lankester R, Mobbs A, Tigert C, Vanvelzen T, Campbell J, Devlin M, Dilkas M, MacKay C. A Qualitative Study Examining Prosthesis Use in Individuals with Lower Limb Amputations. *Prosthetics and Orthotics International*, 2021.

*Radenovic M, Aguilar K, Wyrough A, Johnson C, Luong S, Everall AC, Hitzig SL, Dilkas S, MacKay C, Guilcher SJT. Understanding transitions in care for people with major lower limb amputations from in-patient rehabilitation to home: a descriptive qualitative study. *Disability and Rehabilitation* 2021. DOI: [10.1080/09638288.2021.1882009](https://doi.org/10.1080/09638288.2021.1882009)

Brooks SG, Atkinson SL, Cimino SR, Mayo AL, MacKay C, Hitzig SL. Sexuality and sexual health in adults with limb loss: A systematic review. *Sexuality and Disability* 2021. 39(1), 3-31: 10.1007/s11195-020-09665-w

2.0 PRESENTATIONS AT LOCAL-NATIONAL-INTERNATIONAL MEETINGS

2.1 Respiratory Medicine

Elsabbagha L, Al-Atwib T, Aldossary D, Alshamic AM, Hild JC, Abu-Ras W, Huijerg HAS, Brooks D. (2021) Cross-Cultural Adaptation and Validation of the Start Back Tool for Arabic Speaking Adults with Low Back Pain in Saudi Arabia. World Physiotherapy Congress. [Poster] April 2021.

Quach S, Oliveira A, Brooks D, Walker J, Goldstein R. Perspectives on a Rapid Access Rehabilitation Program Post Hospitalization for Acute Exacerbations of COPD. Canadian Respiratory Conference. [Poster] , 8-10 April 2021.

Holden M, Fyfe M, Poulin C, Bethune B, Church C, Hepburn P, Afreixo V, Brooks D, Oliveira A. Handgrip Strength in Individuals with Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-Analysis. Canadian Respiratory Conference. [Poster] , 8-10 April 2021.

Wshah A, Selzler AM, Hill K, Brooks D, Goldstein R. Determinants of Sedentary Behaviour in Individuals with COPD: A Qualitative Exploration Guided by the Theoretical Domains Framework. Canadian Respiratory Conference. [Poster] 8-10 April 2021.

Michaelchuk W, Oliveira A, Maybank A, Goldstein R, Brooks D. Design and Implementation of Home-based Telehealth Pulmonary Rehabilitation Programs in COPD: A Systematic Review and Meta-analysis. Canadian Respiratory Conference. [Poster] , 8-10 April 2021.

Oliveira A, Habash R, Ellerton L, Maybank A, Goldstein R, Marques A, Brooks D. Disease-specific Outcome Measures used in Pulmonary Rehabilitation for People with Interstitial Lung Diseases. Canadian Respiratory Conference. [Poster] 8-10 April 2021.

Goldstein RS. The Magic of Pulmonary Rehabilitation. A new annual series for Canadian respiratory healthcare providers, Webinar, Canada. April 2021.

Goldstein RS. Pulmonary Rehabilitation: Creating, developing and maintaining an effective program. American Thoracic Society International Conference, United States. 14-18 May 2021.

Suisaa S. - session facilitated by Goldstein RS. Precision medicine in COPD: The role of inhaled corticosteroids. AstraZeneca, Webinar, Ontario, Canada. May 2021.

Dolmage TE. Physiology of exercise training in COPD. (2021) Do we need a different approach? American Thoracic Society International Conference, May 2021.

Miller E, Mori B, Nonoyama M, Vaza P, Brooks D. (2021) Assessing the content validity of the Physical Therapy Competence Assessment for Airway Suctioning (PT-CAAS) in chronic and community care settings. Ontario Physiotherapy Association InterACTION Conference. [Poster] May 2021.

Oliveira A, Palombella A, Wainman B, Rockarts J, Wojkowski, S. Piloting an Interprofessional Virtual Anatomy Dissection Course: Responding to COVID-19. Annual Day in Faculty Development, Faculty of Health Sciences, McMaster University. 25 May 2021.

Oliveira A, Brewer-Deluce D, Wojkowski S. Factors influencing readiness for interprofessional education in health sciences students. Norman Education Research Day, Faculty of Health Sciences, McMaster University. [Oral] 9 June 2021.

Nash J, Oliveira A, D, Wojkowski S. Introduction to interdisciplinary curriculum & readiness for interprofessional learning in BHSc (Hons) Program. Norman Education Research Day, Faculty of Health Sciences, McMaster University. [Oral] 9 June 2021.

Oliveira A, Palombella A, Wainman B, Rockarts J, Wojkowski, S. Piloting an Interprofessional Virtual Anatomy Dissection Course: Responding to COVID-19. Norman Education Research Day, Faculty of Health Sciences, McMaster University. [Poster] 9 June 2021.

Paixão C, Rebelo P, Oliveira A, Jácome C, Cruz J, Marques A. Establishing a minimal clinically important difference in pulmonary rehabilitation: Digging in the methods. Statistics on Health Decision Making Meeting University of Aveiro, Portugal. [Poster] 22 July 2021.

Vieira A, Dias D, Miguel E, Matos T, Flora S, Silva C, Morais N, Oliveira A, Caceiro R, Silva F, Ribeiro J, Silva S, Martins V, Valente C, Burtin C, Brooks D, Marques A, Cruz J. (2021) Relationship between Fatigue, Physical Activity and Health-Related Factors in COPD. European Respiratory Society (ERS) International Congress. [Poster] 5-8 September 2021.

Pimenta S, Flora S, Silva C, Oliveira A, Morais N, Ribeiro J, Silva F, Caceiro R, Carreira B, Januário F, Andrade L, Rodrigues F, Brooks D, Burtin C, Marques A, Cruz J. (2021) Motivation and Physical Activity in COPD: An Exploratory Study. European Respiratory Society (ERS) International Congress. [Poster] 5-8 September 2021.

Paixão C, Rocha V, Brooks D, Marques A. (2021) Unsupervised Physical Activity Recommendations for People with COPD: A Systematic Review. European Respiratory Society (ERS) International Congress. [Poster] 5-8 September 2021.

Alves A, Oliveira A, Ferreira P, Marques A. Reliability and validity of the Chester Step Test in people with Interstitial Lung Disease. European Respiratory Society (ERS) International Congress. [Poster] 5-8 September 2021.

Oliveira A, Quach Q, Alsubheen A, Walker J, Brooks D, Goldstein R. Rapid Access Rehabilitation after Exacerbations of COPD – A Qualitative Study. European Respiratory Society (ERS) International Congress, [Poster] 5-8 September 2021.

Michaelchuk WW, Selzler A, Goldstein R, Brooks D. Prompting sedentary behaviour change in COPD: Acceptability and feasibility of a wearable device. European Respiratory Society (ERS) International Congress. [Poster] 5-8 September 2021.

Pimenta S, Raposo J, Alves-Guerreiro J, Flora S, Caceiro R, Morais N, Oliveira A, Silva CG, Valente C, Andrade L, Rainho A, Martins A, Marques V, Cruz A, Cruz J. Motivos para

a Prática de Atividade Física e Atividade Física Atual em pessoas com DPOC. XI Congresso Nacional de Fisioterapeutas. Lisboa, Portugal. 5-6 November 2021.

Raposo J, Pimenta S, Alves-Guerreiro J, Flora S, Caceiro R, Morais N, Oliveira A, Silva CG, Ribeiro J, Silva F, Januário F, Carreira BP, Rodrigues F, Marques A, Cruz J. (2021) Perfil de atividade física de pessoas com Doença Pulmonar Obstrutiva Crónica (DPOC) em Portugal. X Congresso Nacional de Fisioterapeutas. Lisboa, Portugal. 5-6 November 2021.

Alves A, Oliveira A, Ferreira P, Marques A. Fiabilidade, validade e responsividade do Chester Step Test em pessoas com doença pulmonar intersticial. XI Congresso Nacional de Fisioterapeutas. Lisboa, Portugal. 5-6 November 2021.

Marques A, Paixão C, Machado A, Oliveira A, Ferreira P. Atividades diárias realizadas pelas pessoas com doença pulmonar intersticial – em busca da otimização dos resultados de fisioterapia. XI Congresso Nacional de Fisioterapeutas, Lisboa, Portugal. 5-6 November 2021.

Oliveira A, Rebelo P, Paixão C, Jácome C, Cruz J, Martins V, Simão P, Brooks D, Marques A. Mínima diferença de importância clínica para a força isométrica do quadríceps em pessoas com DPOC após reabilitação respiratória. XI Congresso Nacional de Fisioterapeutas, Lisboa, Portugal. 5-6 November 2021.

Oliveira A, Rebelo P, Paixão C, Miranda S, Machado A, Pinho T, Valente C, Andrade L, Brooks D, Marques A. Determinantes da tosse em pessoas com doença pulmonar obstrutiva crónica. XI Congresso Nacional de Fisioterapeutas, Lisboa, Portugal. 5-6 November 2021.

Paixão C, Rebelo P, Machado A, Miranda S, Oliveira A, Alves A, Almeida S, Valente C, Ferreira P, Brooks D, Marques A. Efeitos da reabilitação respiratória em pessoas com doença pulmonar obstrutiva crónica e doença pulmonar intersticial. XI Congresso Nacional de Fisioterapeutas, Lisboa, Portugal. 5-6 November 2021.

Sobreira M, Almeida PM, Gomes A, Lucas M, Oliveira A, Marques A. Mínimas diferenças de importância clínica para medidas de dor, função pulmonar, fadiga e funcionalidade em lesões medulares. XI Congresso Nacional de Fisioterapeutas, Lisboa, Portugal. 5-6 November 2021.

Marques A, Miranda S, Machado A, Oliveira A, Jácome C, Cruz J, Enes V, Afreixo V, Martins V, Andrade L, Valente C, Ferreira D, Simão P, Brooks D, Tavares A. COPD profiles and treatable traits using minimal-resources: identification, decision tree and stability over time. Congresso Nacional de Pneumologia, Albufeira, Portugal. 11-13 November 2021.

Oliveira A. Outcome measures and reference values for the assessment of functionality. Congresso Nacional de Pneumologia, Algarve, Portugal. (In-person) November 2021.

Oliveira A. Outcome measures and reference values for the assessment of functionality. Congresso Nacional de Pneumologia, Algarve, Portugal. (In-person) November 2021.

Goldstein RS. (2022) Update on Pulmonary Rehabilitation. AstraZeneca, Ontario, Canada. (Virtual) March 2022.

2.2 Amputee

MackKay C, Waugh EJ, King L, Stanaitis I, Hawker GA. A Qualitative Study Exploring Therapists' Experiences with Management of Osteoarthritis and Type II Diabetes Mellitus: "*Our Focus is Primarily the Arthritis*". Poster Presentation. OARSI World Congress. Berlin, Germany. April 7-10, 2022.

Krystia O, King LK, Waugh EJ, MacKay C, Stanaitis I, Ivers NM, Lipscombe L, Hawker GA. Understanding barriers and facilitators to health care providers assessing and treating knee osteoarthritis in persons with type e diabetes mellitus: a qualitative study using the theoretical domains framework. OARSI World Congress on Osteoarthritis. Berlin, Germany. April 7-10, 2022.

King L, Waugh E, MacKay C, Stanaitis I, Hawker G. It's a Dance Between Managing Both [Diabetes and Osteoarthritis]: A Qualitative Study Exploring Perspectives of Persons with Knee Osteoarthritis and Type 2 Diabetes Mellitus on the Impact of Osteoarthritis on Diabetes Management and Daily Life. Virtual (Poster). ACR Convergence 2021; November 5-9, 2021.

MackKay C. Physical Activity for People with Lower Limb Amputations: Priorities and Considerations. ISPO Canada/OAPO 2021 AGM and Educational Sessions. May 23, 2021.

MackKay C and Hitzig S. Health and Quality of Life in People with Dysvascular Lower Limb Loss. Ontario Association of Amputee Care Virtual Conference 2021. May 7, 2021.

MackKay C. Considerations for Exercise and Physical Activity Interventions for People with Lower Limb Amputations: Stakeholder Perceptions and Priorities. St. John's Rehabilitation Rounds. April 28, 2021.

MackKay C (panelist). Department of Physical Therapy Virtual Rehabilitation Research Roundtable: Considerations developing and implementing rehabilitation interventions using virtual platforms (virtual rehabilitation). Department of Physical Therapy, University of Toronto, Ontario, Canada. March 2021.

3.0 NEW STUDIES

3.1 Respiratory Medicine

Nikolovski A, Gamgoum L, Deol A, Quilichini S, Kazemir E, Rhodenizer J, Oliveira A, Brooks D, Alsubheen S. Psychometric properties of the hospital anxiety and depression scale (HADS) in individuals with chronic obstructive pulmonary disease (COPD): A systematic review.

Funding Agency: N/A

Partners: MSc Physiotherapy Program, School of Rehabilitation Sciences, Faculty of Health Sciences, McMaster University.

Amount: N/A

Duration: N/A

Michaelchuk M, Goldstein R, Brooks D. Wearable Technology Device Validation

Start date: March 2022

Funding Agency: N/A

Partners: N/A

Amount: N/A

Duration: approximately 1 year

Oliveira A, Alsubheen SA, Michaelchuk W, Marques A, Goldstein R, Brooks D. Measurement properties of field walking tests individuals with Interstitial Lung Disease (ILD): A Systematic Review.

Funding Agency: N/A

Partners: N/A

Amount: N/A

Duration: N/A

3.2 Amputee

MacKay A, Guilcher S, Campbell J, Dilkas S, Herron C, Pham N, Quek A, Shah M, Zaffino V. Co-Creating Strategies to Improve Transitions in Care from Inpatient Rehabilitation to Community for Persons with Lower Limb Amputations.

Funding Agency: N/A

Partners: University of Toronto

Amount: N/A

Duration: approximately a year

Hitzig S, MacKay C, Mayo A, Dilkas S, Devlin M. Developing a Patient-Reported Outcome for Amputation (PRO-AMP).

Funding Agency: Canadian Institute of Health Research

Partners: St. John's Rehabilitation Research Program, University of Toronto

Amount: N/A

Duration: approximately 2 years

Miller W, MacKay C, Esfandiari E, King S, Payne M, Dilkas S, Mayo A. Self-management for Amputee Rehabilitation Using Technology (SMART) Program: a Peer Supported mHealth Approach for Rehabilitation After Lower Limb Amputation.

Funding Agency: N/A

Partners: N/A

Amount: N/A

Duration: approximately 3 years

MacKay C, Azhari F, Dilkas S. Use of wearable sensor technologies for quantitative gait assessment in lower-limb amputees.

Funding Agency: University of Toronto

Partners: University of Toronto

Amount: N/A

Duration: approximately 8 Months

MacKay C, Verweel L, Walker A, Lee K, Subhani F, Park T, Assivero K, Delaney E. Exploring Individuals' Experiences with Adaptive Gaming.

Funding Agency: N/A

Partners: University of Toronto

Amount: N/A

Duration: approximately 1 year

Wasilewski M (PI), MacKay C, Cassin M, Fowler R, Gotlib Conn L, Guo D, Haas B, Hitzig S, Kuluski K, Mayo A, McFarlan A, Robinson L, Simpson R, Vogt K. Co-Designing a Cross-Continuum Peer Support Program for Trauma Patients.

Funding Agency: CIHR

Partners: N/A

Amount: 100,000 CAD

Duration: N/A

Zidarov D (PI), MacKay C, Hitzig S, Mayo A, Zucker-Levin A. Assessing the Community Needs of Individuals with Limb Loss: Building the Foundation for Community Action.

Funding Agency: Social Sciences and Humanities Research Council of Canada

Partners: N/A

Amount: 25,000 CAD

Duration: N/A

MacKay C (PI), Dilkas S, Campbell J, Eshraghi A, Verweel L. Exploring How Individuals with Limb Loss Perceive and Experience Compassionate Care in Virtual Rehabilitation Consultations.

Funding Agency: AMS

Partners: N/A

Amount: 20,000 CAD

Duration: approximately 1 year

4.0 AWARDS

4.1 Respiratory Medicine

Brooks D. (2021) Thomas L. Petty Distinguished Pulmonary Scholar Award. American Association of Cardiovascular and Pulmonary Rehabilitation.

Alsubheen S, Brooks D. (2021) E.B. Eastburn Fellowship. E.B Eastburn Postdoctoral Fellowship Fund, Hamilton, ON Canada. 90,000 CAD for two years

Oliveria A. (2021) ERS/ELF Travel Grant for Best Abstract in Patient Centred Research. European Respiratory Society International Congress, Madrid, Spain. 850 €

Rebello P, Oliveira A, Andrade L, Valente C, Marques A. (2021) First Prize for Best Publication in an Index Journal. Congresso Português de Pneumologia, Sociedade Portuguesa de Pneumologia, Albufeira, Portugal. 2000 €

Oliveira A, Marques A, Mendes A, Freitas C, Soares S, Steele C, Saraiva I, Cruz J, Vera Afreixo V, Paixão C, Vertigan A, Brooks D. (2021) First Prize Thomé Villar / Boehringer Ingelheim Award. Congresso Português de Pneumologia, Sociedade Portuguesa de Pneumologia, Albufeira, Portugal. 5000 €

Marques A, Machado A; Paixão C, Oliveira A, Freitas C, Alvarelhão J, Martins V, Ferreira P, Rodrigues C, Mendes A, Afreixo V, Saraiva I, Brooks D. (2021) First Prize Robalo Cordeiro Award. Congresso Português de Pneumologia, Sociedade Portuguesa de Pneumologia, Albufeira, Portugal. 5000 €

Miller E, Brooks D, Mori B. (2021) CPA Silver Quill Award - Student Research Canadian Physiotherapy Association, Ottawa, ON Canada. 1,000 CAD

Marques A, Almeida S, Miranda S, Paixão C, Rebello P, Machado A, Rodrigues G, Marçalo R, Rocha V, Oliveira A. (2022) First Prize of Cooperation UA in the field of Health, Biotechnology and Food. University of Aveiro, Portugal. 4000 €

4.2 Amputee

Wasilewski M (PI), MacKay C, Cassin M, Fowler R, Gotlib Conn L, Guo D, Haas B, Hitzig S, Kuluski K, Mayo A, McFarlan A, Robinson L, Simpson R, Vogt K. (2021) Co-Designing a Cross-Continuum Peer Support Program for Trauma Patients. CIHR Project Grant-Patient-Oriented Research Priority Area-Early Career Researcher. 100,000 CAD

Zidarov D (PI), MacKay C, Hitzig S, Mayo A, Zucker-Levin A. (2021) Assessing the Community Needs of Individuals with Limb Loss: Building the Foundation for Community Action. Social Sciences and Humanities Research Council of Canada. 25,000 CAD

MacKay C (PI). (2022) Exploring How Individuals with Limb Loss Perceive and Experience Compassionate Care in Virtual Rehabilitation Consultations. AMS Small Grants in Compassion and Artificial Intelligence. 20,000 CAD