

## **Publications- INS Québec**

### **2022**

Durand-Bush, N., Baker, J., van den Berg, F., Richard, V., & Bloom, G. A. (2022). The Gold Medal Profile for Sport Psychology (GMP-SP). *Journal of Applied Sport Psychology*, 1–24. <https://doi.org/10.1080/10413200.2022.2055224>

Thibaut, A., Kaux, J.-F., Martens, G., Urhausen, A., Tscholl, P., Hannouche, D., Le Garrec, S., Crema, M., Winkler, L., Cabri, J., & Leclerc, S. (2022). Way for improvement: Primary survey on concussion knowledge of sports stakeholders in three European countries. *Science & Sports*, 37(2), 94–100. <https://doi.org/10.1016/j.scispo.2021.08.001>

Vachon, A., Berryman, N., Mujika, I., Paquet, J.-B., & Bosquet, L. (2022). Preconditioning Activities to Enhance Repeated High-Intensity Efforts in Elite Rugby Union Players. *International Journal of Sports Physiology and Performance*, 1–8. <https://doi.org/10.1123/ijsp.2021-0270>

Croteau, F., Thénault, F., Blain-Moraes, S., Pearsall, D. J., Paradelo, D., & Robbins, S. M. (2022). Automatic detection of passing and shooting in water polo using machine learning: a feasibility study. *Sports Biomechanics / International Society of Biomechanics in Sports*, 1–15. <https://doi.org/10.1080/14763141.2022.2044507>

Deshayes, T. A., Daigle, N., Jeker, D., Lamontagne-Lacasse, M., Perreault-Briere, M., Claveau, P., Simoneau, I. L., Chamoux, E., & Goulet, E. D. B. (2022). Cognitive Performance Before and Following Habituation to Exercise-Induced Hypohydration of 2 and 4% Body Mass in Physically Active Individuals. *Nutrients*, 14(5). <https://doi.org/10.3390/nu14050935>

Allard, P., Martinez, R., Deguire, S., & Tremblay, J. (2022). In-Season Session Training Load Relative to Match Load in Professional Ice Hockey. *Journal of Strength and Conditioning Research / National Strength & Conditioning Association*, 36(2), 486–492. <https://doi.org/10.1519/JSC.0000000000003490>

Faltus, J., & Richard, V. (2022). Considerations for the Medical Management of the Circus Performance Artist and Acrobat. *International Journal of Sports Physical Therapy*, 17(2), 307–316. <https://doi.org/10.26603/001c.31645>

Cadieux, E. G., Richard, V., & Dupuis, G. (2022). Effects of bali yoga program for athletes (BYP-A) on psychological state related to performance of circus artists. *International Journal of Yogic, Human Movement and Sports Sciences*, 7(1), 23–33. <https://doi.org/10.22271/yogic.2022.v7.i1a.1249>

Romeas, T., More-Chevalier, B., Charbonneau, M., & Bieuzen, F. (2022). Virtual-Reality Training of Elite Boxers Preparing for the Tokyo 2020 Olympics During the COVID-19 Pandemic: A Case Study.

*Case Studies in Sport and Exercise Psychology*, 6(1), 21–35. <https://doi.org/10.1123/cssep.2021-0027>

Vachon, A., Berryman, N., Mujika, I., Paquet, J.-B., Sauvet, F., & Bosquet, L. (2022). Impact of tapering and proactive recovery on young elite rugby union players' repeated high intensity effort ability. *Biology of Sport / Institute of Sport*. <https://doi.org/10.5114/biol sport.2022.109453>

## **2021**

Aponte D, Leclerc S, Pearsall D. Short track vs hockey helmets: using finite element analysis to compare strain to the brain. *British Journal of Sports Medicine* Nov 2021, 55 (Suppl 1) A164; DOI: 10.1136/bjsports-2021-IOC.393

Aponte D, Leclerc S, Pearsall D. Short track vs hockey helmets: investigating impact attenuation properties of helmets in two skating sports. *British Journal of Sports Medicine* Nov 2021, 55 (Suppl 1) A130; DOI: 10.1136/bjsports-2021-IOC.311

Jeker, D., Claveau, P., Abed, M. E. F., Deshayes, T. A., Lajoie, C., Gendron, P., Hoffman, M. D., & Goulet, E. D. B. (2021). Programmed vs. Thirst-Driven Drinking during Prolonged Cycling in a Warm Environment. *Nutrients*, 14(1), 141. <https://doi.org/10.3390/nu14010141>

Martens, G., Delvaux, F., Forthomme, B., Kaux, J.-F., Urhausen, A., Bieuzen, F., Leclerc, S., Winkler, L., Brocherie, F., Nedelec, M., Morales-Artacho, A. J., Ruffault, A., Macquet, A.-C., Guilhem, G., Hannouche, D., Tscholl, P. M., Seil, R., Edouard, P., & Croisier, J.-L. (2021). Exercise-Based Injury Prevention in High-Level and Professional Athletes: Narrative Review and Proposed Standard Operating Procedure for Future Lockdown-Like Contexts After COVID-19. *Frontiers in Sports and Active Living*, 3, 745765. <https://doi.org/10.3389/fspor.2021.745765>

Deshayes, T. A., Daigle, N., Jeker, D., Lamontagne-Lacasse, M., Perreault-Briere, M., Claveau, P., Simoneau, I. L., Chamoux, E., & Goulet, E. D. B. (2021). Impact of Repeated Acute Exposures to Low and Moderate Exercise-Induced Hypohydration on Physiological and Subjective Responses and Endurance Performance. *Nutrients*, 13(12). <https://doi.org/10.3390/nu13124477>

Richard, V., Holder, D., & Cairney, J. (2021). Creativity in Motion: Examining the Creative Potential System and Enriched Movement Activities as a way to Ignite It. *Frontiers in Psychology*, 12, 690710. <https://doi.org/10.3389/fpsyg.2021.690710>

Dong, L., Paradelo, D., Delorme, A., Oliveira, J., Parillo, B., Croteau, F., Romeas, T., Dubé, E., Bieuzen, F., Billaut, F., & Berryman, N. (2021). Sport-Specific Agility and Change of Direction in Water Polo: The Reliability and Validity of Two Newly Developed Tests. *Journal of Strength and Conditioning Research / National Strength & Conditioning Association*, 35(Suppl 2), S111–S118. <https://doi.org/10.1519/JSC.0000000000003984>

Goenarjo, R., Dupuy, O., Fraser, S., Berryman, N., Perrochon, A., & Bosquet, L. (2021). Cardiorespiratory fitness and prefrontal cortex oxygenation during Stroop task in older males. *Physiology & Behavior*, 242, 113621. <https://doi.org/10.1016/j.physbeh.2021.113621>

Vrinceanu, T., Blanchette, C.-A., Intzandt, B., Lussier, M., Pothier, K., Vu, T. T. M., Nigam, A., Bosquet, L., Karelis, A. D., Li, K. Z. H., Berryman, N., & Bherer, L. (2021). A comparison of the effect of physical

activity and cognitive training on dual-task performance in older adults. *The Journals of Gerontology. Series B, Psychological Sciences and Social Sciences*. <https://doi.org/10.1093/geronb/gbab216>

Romeas, T., Greffou, S., Allard, R., Forget, R., McKerral, M., Faubert, J., & Gagnon, I. (2021). Dynamic Visual Stimulations Produced in a Controlled Virtual Reality Environment Reveals Long-Lasting Postural Deficits in Children With Mild Traumatic Brain Injury. *Frontiers in Neurology*, *12*, 596615. <https://doi.org/10.3389/fneur.2021.596615>

Predovan, D., Berryman, N., Lussier, M., Comte, F., Vu, T. T. M., Villalpando, J. M., & Bherer, L. (2021). Assessment of the Relationship Between Executive Function and Cardiorespiratory Fitness in Healthy Older Adults. *Frontiers in Psychology*, *12*, 742184. <https://doi.org/10.3389/fpsyg.2021.742184>

Croteau, F., Robbins, S., Pearsall, D., & Paradelo, D. (2021). 095 Risk factors for both retrospective and prospective shoulder injuries in water polo. *British Journal of Sports Medicine*, *55*(Suppl 1), A39–A39. <https://doi.org/10.1136/bjsports-2021-IOC.90>

Paquette, M., Bieuzen, F., & Billaut, F. (2021). The effect of HIIT vs. SIT on muscle oxygenation in trained sprint kayakers. *European Journal of Applied Physiology*, *121*(10), 2743–2759. <https://doi.org/10.1007/s00421-021-04743-z>

Richard, V., Holder, D., & Cairney, J. (2021). Creativity in Motion: Examining the Creative Potential System and Enriched Movement Activities as a Way to Ignite It. *Frontiers in Psychology*, *12*, 690710. <https://doi.org/10.3389/fpsyg.2021.690710>

Bherer, L., Gagnon, C., Langeard, A., Lussier, M., Desjardins-Crépeau, L., Berryman, N., Bosquet, L., Vu, T. T. M., Fraser, S., Li, K. Z. H., & Kramer, A. F. (2021). Synergistic Effects of Cognitive Training and Physical Exercise on Dual-Task Performance in Older Adults. *The Journals of Gerontology. Series B, Psychological Sciences and Social Sciences*, *76*(8), 1533–1541. <https://doi.org/10.1093/geronb/gbaa124>

Jeker, D., Gosselin, J., Drouet, J.-M., & Goulet, E. D. B. (2021). Validity and Reliability of the Computrainer Lab™ During Simulated 40 and 100 km Time-Trials. *Frontiers in Sports and Active Living*, *3*, 735046. <https://doi.org/10.3389/fspor.2021.735046>

Martens, G., Edouard, P., Tscholl, P. M., Bieuzen, F., Winkler, L., Cabri, J., Urhausen, A., Guilhem, G., Croiser, J.-L., Thoreux, P., Leclerc, S., Hannouche, D., Kaux, J.-F., Le Garrec, S., & Seil, R. (2021). Translation and synthesis of the IOC consensus statements: The first mission of ReFORM for a better knowledge dissemination to the Francophonie. *Science & Sports*, *36*(4), 323–324. <https://doi.org/10.1016/j.scispo.2021.07.001>

Claveau, P., Deshayes, T. A., Jeker, D., Pancrate, T., & Goulet, E. D. B. (2021). Provision of instructions to drink ad libitum or according to thirst sensation: impact during 120 km of cycling in the heat in men. *Applied Physiology, Nutrition, and Metabolism = Physiologie Appliquée, Nutrition et Métabolisme*, *47*(1), 1–8. <https://doi.org/10.1139/apnm-2021-0476>

Croteau, F., Paradelo, D., Pearsall, D., & Robbins, S. (2021). Risk Factors for Shoulder Injuries in Water Polo: a Cohort Study. *International Journal of Sports Physical Therapy*, *16*(4), 1135–1144.

<https://doi.org/10.26603/001c.25432>

Vachon, A., Berryman, N., Mujika, I., Paquet, J.-B., & Bosquet, L. (2021a). Fitness Determinants of Repeated High-Intensity Effort Ability in Elite Rugby Union Players. *International Journal of Sports Physiology and Performance*, *16*(8), 1103–1110. <https://doi.org/10.1123/ijsp.2020-0525>

Gagnon-Dolbec, A., Fortier, M., & Cormier, S. (2021). Pain intensity and pain unpleasantness in triathletes: A study examining their associations with pain catastrophizing and pain expectations. *Psychology of Sport and Exercise*, *55*, 101928. <https://doi.org/10.1016/j.psychsport.2021.101928>

Pothier, K., Vrinceanu, T., Intzandt, B., Bosquet, L., Karelis, A. D., Lussier, M., Vu, T. T. M., Nigam, A., Li, K. Z. H., Berryman, N., & Bherer, L. (2021). A comparison of physical exercise and cognitive training interventions to improve determinants of functional mobility in healthy older adults. *Experimental Gerontology*, *149*, 111331. <https://doi.org/10.1016/j.exger.2021.111331>

Richard, V., Lavoie-Léonard, B., & Romeas, T. (2021). Embedding Perceptual–Cognitive Training in the Athlete Environment: An Interdisciplinary Case Study Among Elite Female Goalkeepers Preparing for Tokyo 2020. *Case Studies in Sport and Exercise Psychology*, *5*(S1), S1–S44 – S1–S58. <https://doi.org/10.1123/cssep.2021-0028>

Vachon, A., Berryman, N., Mujika, I., Paquet, J.-B., & Bosquet, L. (2021b). Tapering and Repeated High-Intensity Effort Ability in Young Elite Rugby Union Players: Influence of Pretaper Fatigue Level. *International Journal of Sports Physiology and Performance*, *16*(7), 993–1000. <https://doi.org/10.1123/ijsp.2020-0639>

Croteau, F., Brown, H., Pearsall, D., & Robbins, S. M. (2021). Prevalence and mechanisms of injuries in water polo: a systematic review. *BMJ Open Sport & Exercise Medicine*, *7*(2), e001081. <https://doi.org/10.1136/bmjsem-2021-001081>

Croteau, F., Robbins, S. M., & Pearsall, D. (2021). Hand-Held Shoulder Strength Measures Correlate With Isokinetic Dynamometry in Elite Water Polo Players. *Journal of Sport Rehabilitation*, *30*(8), 1233–1236. <https://doi.org/10.1123/jsr.2020-0277>

Sesbreno, E., Dziedzic, C. E., Sygo, J., Blondin, D. P., Haman, F., Leclerc, S., Brazeau, A.-S., & Mountjoy, M. (2021). Elite Male Volleyball Players Are at Risk of Insufficient Energy and Carbohydrate Intake. *Nutrients*, *13*(5), 1435. <https://doi.org/10.3390/nu13051435>

Richard, V., Mason, J., Alvarez-Alvarado, S., Perry, I., Lussier, B., & Tenenbaum, G. (2021). Effect of Preperformance Routine on Advanced Swimmers' Performance and Motor Efficiency, Self-Efficacy, and Idiosyncratic Emotions. *Sport Psychologist*, *35*(2), 97–107. <https://doi.org/10.1123/tsp.2020-0023>

Clément, J., Charbonneau, M., & Thompson, M. (2021). Instantaneous velocity estimation for the four swimming strokes using a 3-axis accelerometer: Validation on paralympic athletes. *Journal of Biomechanics*, *117*, 110261. <https://doi.org/10.1016/j.jbiomech.2021.110261>

Richard, V., Ben-Zaken, S., Siekańska, M., & Tenenbaum, G. (2021). Effects of movement improvisation and aerobic dancing on motor creativity and divergent thinking. *The Journal of*

*Creative Behavior*, 55(1), 255–267. <https://doi.org/10.1002/jocb.450>

Vachon, A., Berryman, N., Mujika, I., Paquet, J.-B., Arvisais, D., & Bosquet, L. (2021). Effects of tapering on neuromuscular and metabolic fitness in team sports: a systematic review and meta-analysis. *European Journal of Sport Science: EJSS: Official Journal of the European College of Sport Science*, 21(3), 300–311. <https://doi.org/10.1080/17461391.2020.1736183>

Stuckey, M., Richard, V., Decker, A., Aubertin, P., & Kriellaars, D. (2021). Supporting Holistic Wellbeing for Performing Artists During the COVID-19 Pandemic and Recovery: Study Protocol. *Frontiers in Psychology*, 12, 577882. <https://doi.org/10.3389/fpsyg.2021.577882>

Martens, G., Edouard, P., Tscholl, P., Bieuzen, F., Winkler, L., Cabri, J., Urhausen, A., Guilhem, G., Croisier, J.-L., Thoreux, P., Leclerc, S., Hannouche, D., Kaux, J.-F., Le Garrec, S., & Seil, R. (2021). Document, create and translate knowledge: the mission of ReFORM, the Francophone IOC Research Centre for Prevention of Injury and Protection of Athlete Health. *British Journal of Sports Medicine*, 55(4), 187–188. <https://doi.org/10.1136/bjsports-2020-103087>

Martens, G., Delvaux, F., Forthomme, B., Kaux, J.-F., Urhausen, A., Bieuzen, F., Leclerc, S., Winkler, L., Brocherie, F., Nedelec, M., Morales-Artacho, A. J., Ruffault, A., Macquet, A.-C., Guilhem, G., Hannouche, D., Tscholl, P. M., Seil, R., Edouard, P., & Croisier, J.-L. (2021). Exercise-Based Injury Prevention in High-Level and Professional Athletes: Narrative Review and Proposed Standard Operating Procedure for Future Lockdown-Like Contexts After COVID-19. *Frontiers in Sports and Active Living*, 3, 745765. <https://doi.org/10.3389/fspor.2021.745765>

## **2020**

Berryman, N., Mujika, I., & Bosquet, L. (2020). Effects of Short-Term Concurrent Training Cessation on the Energy Cost of Running and Neuromuscular Performances in Middle-Distance Runners. *Sports (Basel, Switzerland)*, 9(1). <https://doi.org/10.3390/sports9010001>

Aloulou, A., Duforez, F., Bieuzen, F., & Nedelec, M. (2020). The effect of night-time exercise on sleep architecture among well-trained male endurance runners. *Journal of Sleep Research*, 29(6), e12964. <https://doi.org/10.1111/jsr.12964>

Aloulou, A., Leduc, C., Duforez, F., Piscione, J., Cheradame, J., Bieuzen, F., Thomas, C., Chennaoui, M., VAN Beers, P., & Nedelec, M. (2020). Effect of an Innovative Mattress and Cryotherapy on Sleep after an Elite Rugby Match. *Medicine and Science in Sports and Exercise*, 52(12), 2655–2662. <https://doi.org/10.1249/MSS.0000000000002403>

Jeker, D., Falbriard, M., Vernillo, G., Meyer, F., Savoldelli, A., Degache, F., Schena, F., Aminian, K., & Millet, G. P. (2020). Changes in spatio-temporal gait parameters and vertical speed during an extreme mountain ultra-marathon. *European Journal of Sport Science: EJSS: Official Journal of the European College of Sport Science*, 20(10), 1339–1345. <https://doi.org/10.1080/17461391.2020.1712480>

Abed, M. E. F., Deshayes, T. A., Claveau, P., Jeker, D., Thénault, F., & Goulet, E. D. B. (2020). Impact of Mild Hypohydration on 100 m Front Crawl Performance and Starting Block Peak Force Production in

Competitive University-Level Swimmers. *Sports (Basel, Switzerland)*, 8(10), 133.  
<https://doi.org/10.3390/sports8100133>

Richard, V., Aubertin, P., Yang, Y. Y., & Kriellaars, D. (2020). Factor Structure of Play Creativity: A New Instrument to Assess Movement Creativity. *Creativity Research Journal*, 32(4), 383–393.  
<https://doi.org/10.1080/10400419.2020.1821567>

Vrinceanu, T., Lagacé-Lavoie, G., Kaushal, N., Esmail, A., Vu, T. T. M., Berryman, N., Nigam, A., & Bherer, L. (2020). Mind the Rhythm: ECG QT Dispersion and Cognition in Healthy Older Adults. *Frontiers in Psychology*, 11, 566341. <https://doi.org/10.3389/fpsyg.2020.566341>

Poignard, M., Guilhem, G., de Larochelambert, Q., Montalvan, B., & Bieuzen, F. (2020). The Impact of Recovery Practices Adopted by Professional Tennis Players on Fatigue Markers According to Training Type Clusters. *Frontiers in Sports and Active Living*, 2, 109.  
<https://doi.org/10.3389/fspor.2020.00109>

Langeard, A., Fakrahnak, Z., Vrinceanu, T., Noriega de la Colina, A., Pothier, K., Berryman, N., Vu, T. T. M., Girouard, H., Karelis, A. D., & Bherer, L. (2020). Sex-moderated association between body composition and cognition in older adults. *Experimental Gerontology*, 138, 111002.  
<https://doi.org/10.1016/j.exger.2020.111002>

Belleville, S., Cuesta, M., Bieler-Aeschlimann, M., Giacomino, K., Widmer, A., Mittaz Hager, A. G., Perez-Marcos, D., Cardin, S., Boller, B., Bier, N., Aubertin-Leheudre, M., Bherer, L., Berryman, N., Agrigoroaei, S., & Demonet, J. F. (2020). Rationale and protocol of the StayFitLonger study: a multicentre trial to measure efficacy and adherence of a home-based computerised multidomain intervention in healthy older adults. *BMC Geriatrics*, 20(1), 315. <https://doi.org/10.1186/s12877-020-01709-2>

Edouard, P., Bieuzen, F., Cabri, J., Croisier, J. L., Filliard, J. R., Forthomme, B., Guilhem, G., Hannouche, D., Kaux, J. F., Leclerc, S., Le Garrec, S., Le Van, P., Seil, R., Thoreux, P., Toussaint, J. F., Tscholl, P., & Urhausen, A. (2020a). L'union fait la force ! Le réseau francophone ReFORM est reconnu par le CIO pour faire avancer la prévention des blessures et la protection de la santé des athlètes. *Journal de Traumatologie Du Sport*, 37(2), 65–66. <https://doi.org/10.1016/j.jts.2019.12.006>

Vachon, A., Berryman, N., Mujika, I., Paquet, J.-B., Monnet, T., & Bosquet, L. (2020). Reliability of a Repeated High-Intensity Effort Test for Elite Rugby Union Players. *Sports (Basel, Switzerland)*, 8(5).  
<https://doi.org/10.3390/sports8050072>

Beliveau, J., Perreault-Briere, M., Jeker, D., Deshayes, T. A., Durán-Suárez, A., Baker, L. B., & Goulet, E. D. B. (2020). Permanent tattooing has no impact on local sweat rate, sweat sodium concentration and skin temperature or prediction of whole-body sweat sodium concentration during moderate-intensity cycling in a warm environment. *European Journal of Applied Physiology*, 120(5), 1111–1122. <https://doi.org/10.1007/s00421-020-04350-4>

Paquette, M., Bieuzen, F., & Billaut, F. (2020). Effect of a 3-Weeks Training Camp on Muscle Oxygenation,  $\dot{V}O_2$  and Performance in Elite Sprint Kayakers. *Frontiers in Sports and Active Living*, 2, 47. <https://doi.org/10.3389/fspor.2020.00047>

Drapeau, A., Imhoff, S., Labrecque, L., Paquette, M., Le Blanc, O., Malenfant, S., & Brassard, P. (2020). Cerebrovascular carbon dioxide reactivity is influenced by sex despite comparable hemodynamic and respiratory chemosensitivity in young fit individuals. *FASEB Journal: Official Publication of the Federation of American Societies for Experimental Biology*, 34(S1), 1–1. <https://doi.org/10.1096/fasebj.2020.34.s1.09463>

Sesbreno, E., Slater, G., Mountjoy, M., & Galloway, S. D. R. (2020). Development of an Anthropometric Prediction Model for Fat-Free Mass and Muscle Mass in Elite Athletes. *International Journal of Sport Nutrition and Exercise Metabolism*, 30(2), 174–181. <https://doi.org/10.1123/ijsnem.2019-0232>

Deshayes, T. A., Jeker, D., & Goulet, E. D. B. (2020). Impact of Pre-exercise Hypohydration on Aerobic Exercise Performance, Peak Oxygen Consumption and Oxygen Consumption at Lactate Threshold: A Systematic Review with Meta-analysis. *Sports Medicine*, 50(3), 581–596. <https://doi.org/10.1007/s40279-019-01223-5>

Malenfant, S., Brassard, P., Paquette, M., Le Blanc, O., Chouinard, A., Bonnet, S., & Provencher, S. (2020). Continuous reduction in cerebral oxygenation during endurance exercise in patients with pulmonary arterial hypertension. *Physiological Reports*, 8(6), e14389. <https://doi.org/10.14814/phy2.14389>

Deshayes, T. A., Jeker, D., & Goulet, E. D. B. (2020). Impact of Pre-exercise Hypohydration on Aerobic Exercise Performance, Peak Oxygen Consumption and Oxygen Consumption at Lactate Threshold: A Systematic Review with Meta-analysis. *Sports Medicine*, 50(3), 581–596. <https://doi.org/10.1007/s40279-019-01223-5>

Rodrigues, L., Bherer, L., Bosquet, L., Vrinceanu, T., Nadeau, S., Lehr, L., Bobeuf, F., Kergoat, M. J., Vu, T. T. M., & Berryman, N. (2020). Effects of an 8-week training cessation period on cognition and functional capacity in older adults. *Experimental Gerontology*, 134, 110890. <https://doi.org/10.1016/j.exger.2020.110890>

Goenarjo, R., Bosquet, L., Berryman, N., Metier, V., Perrochon, A., Fraser, S. A., & Dupuy, O. (2020). Cerebral Oxygenation Reserve: The Relationship Between Physical Activity Level and the Cognitive Load During a Stroop Task in Healthy Young Males. *International Journal of Environmental Research and Public Health*, 17(4). <https://doi.org/10.3390/ijerph17041406>

Goenarjo, R., Dupuy, O., Fraser, S., Perrochon, A., Berryman, N., & Bosquet, L. (2020). Cardiorespiratory fitness, blood pressure, and cerebral oxygenation during a dual-task in healthy young males. *Behavioural Brain Research*, 380, 112422. <https://doi.org/10.1016/j.bbr.2019.112422>

Edouard, P., Bieuzen, F., Cabri, J., Croisier, J.-L., Filliard, J.-R., Forthomme, B., Guilhem, G., Hannouche, D., Kaux, J.-F., Leclerc, S., Le Garrec, S., Le Van, P., Seil, R., Thoreux, P., Toussaint, J.-F., Tscholl, P., & Urhausen, A. (2020b). Le réseau francophone ReFORM. *Science & sports*, 35(1), 61–62. <https://doi.org/10.1016/j.scispo.2019.11.002>

Esmail, A., Vrinceanu, T., Lussier, M., Predovan, D., Berryman, N., Houle, J., Karelis, A., Grenier, S., Minh Vu, T. T., Villalpando, J. M., & Bherer, L. (2020). Effects of Dance/Movement Training vs.

Aerobic Exercise Training on cognition, physical fitness and quality of life in older adults: A randomized controlled trial. *Journal of Bodywork and Movement Therapies*, 24(1), 212–220. <https://doi.org/10.1016/j.jbmt.2019.05.004>

## **2019**

Berryman, N. (2019). The energy cost of walking and gait speed in older adults: A review of training methods. *Neurophysiologie Clinique = Clinical Neurophysiology*, 49(6), 424. <https://doi.org/10.1016/j.neucli.2019.10.051>

Gagnon-Dolbec, A., McKelvie, S. J., & Eastwood, J. (2019). Feedback, Sport-Confidence and Performance of Lacrosse Skills. *Current Psychology: Research and Reviews; New York*, 38(6), 1622–1633. <https://doi.org/10.1007/s12144-017-9720-7>

Perry, B. G., Cotter, J. D., Korad, S., Lark, S., Labrecque, L., Brassard, P., Paquette, M., Le Blanc, O., & Lucas, S. J. E. (2019). Implications of habitual endurance and resistance exercise for dynamic cerebral autoregulation. *Experimental Physiology*, 104(12), 1780–1789. <https://doi.org/10.1113/EP087675>

Vrinceanu, T., Esmail, A., Berryman, N., Predovan, D., Vu, T. T. M., Villalpando, J. M., Pruessner, J. C., & Bherer, L. (2019). Dance your stress away: comparing the effect of dance/movement training to aerobic exercise training on the cortisol awakening response in healthy older adults. *Stress*, 22(6), 687–695. <https://doi.org/10.1080/10253890.2019.1617690>

Berryman, N., Mujika, I., & Bosquet, L. (2019). Concurrent Training for Sports Performance: The 2 Sides of the Medal. *International Journal of Sports Physiology and Performance*, 14(3), 279–285. <https://doi.org/10.1123/ijsp.2018-0103>

Perreault-Briere, M., Beliveau, J., Jeker, D., Deshayes, T. A., Duran, A., & Goulet, E. D. B. (2019). Effect of Thirst-Driven Fluid Intake on 1 H Cycling Time-Trial Performance in Trained Endurance Athletes. *Sports (Basel, Switzerland)*, 7(10). <https://doi.org/10.3390/sports7100223>

Richard, V., Yang, Y., Runco, M., Abdulla, A. M., & Tenenbaum, G. (2019). Does engaging in creative activities influence the use of coping skills and perception of challenge-skill balance in elite athletes? *IAFOR Journal of Psychology & the Behavioral Sciences*, 5(si), 3–20. <https://doi.org/10.22492/ijpbs.5.si.01>

Mahjoub, H., Le Blanc, O., Paquette, M., Imhoff, S., Labrecque, L., Drapeau, A., Poirier, P., Bédard, É., Pibarot, P., & Brassard, P. (2019). Cardiac remodeling after six weeks of high-intensity interval training to exhaustion in endurance-trained men. *American Journal of Physiology. Heart and Circulatory Physiology*, 317(4), H685–H694. <https://doi.org/10.1152/ajpheart.00196.2019>

Romeas, T., Chaumillon, R., Labbé, D., & Faubert, J. (2019). Combining 3D-MOT With Sport Decision-Making for Perceptual-Cognitive Training in Virtual Reality. *Perceptual and Motor Skills*, 126(5), 922–948. <https://doi.org/10.1177/0031512519860286>

Deshayes, T. A., De La Flore, A., Gosselin, J., Beliveau, J., Jeker, D., & Goulet, E. D. B. (2019). The Impact of an Ice Slurry-Induced Gastrointestinal Heat Sink on Gastrointestinal and Rectal



Temperatures Following Exercise. *Sports (Basel, Switzerland)*, 7(9).  
<https://doi.org/10.3390/sports7090198>

Broatch, J. R., Poignard, M., Hausswirth, C., Bishop, D. J., & Bieuzen, F. (2019). Whole-body cryotherapy does not augment adaptations to high-intensity interval training. *Scientific Reports*, 9(1), 12013. <https://doi.org/10.1038/s41598-019-48518-1>

Drapeau, A., Labrecque, L., Imhoff, S., Paquette, M., Le Blanc, O., Malenfant, S., & Brassard, P. (2019). Six weeks of high-intensity interval training to exhaustion attenuates dynamic cerebral autoregulation without influencing resting cerebral blood velocity in young fit men. *Physiological Reports*, 7(15), e14185. <https://doi.org/10.14814/phy2.14185>

Paquette, M., Bieuzen, F., & Billaut, F. (2019). Sustained Muscle Deoxygenation vs. Sustained High VO<sub>2</sub> During High-Intensity Interval Training in Sprint Canoe-Kayak. *Frontiers in Sports and Active Living*, 1, 6. <https://doi.org/10.3389/fspor.2019.00006>

Aloosh, M., Leclerc, S., Long, S., Zhong, G., Brophy, J. M., Schuster, T., Steele, R., & Shrier, I. (2019). One-year test-retest reliability of ten vision tests in Canadian athletes. *F1000Research*, 8(1032), 1032. <https://doi.org/10.12688/f1000research.19587.1>

Clément, J., Blakeney, W., Hagemester, N., Desmeules, F., Mezghani, N., Lowry, V., & Vendittoli, P.-A. (2019). Hip-Knee-Ankle (HKA) angle modification during gait in healthy subjects. *Gait & Posture*, 72, 62–68. <https://doi.org/10.1016/j.gaitpost.2019.05.025>

Blakeney, W., Clément, J., Desmeules, F., Hagemester, N., Rivière, C., & Vendittoli, P.-A. (2019). Kinematic alignment in total knee arthroplasty better reproduces normal gait than mechanical alignment. *Knee Surgery, Sports Traumatology, Arthroscopy: Official Journal of the ESSKA*, 27(5), 1410–1417. <https://doi.org/10.1007/s00167-018-5174-1>

Desmyttere, G., Gaudet, S., & Begon, M. (2019). Test-retest reliability of a hip strength assessment system in varsity soccer players. *Physical Therapy in Sport: Official Journal of the Association of Chartered Physiotherapists in Sports Medicine*, 37, 138–143.  
<https://doi.org/10.1016/j.ptsp.2019.03.013>

Grégoire, C.-A., Berryman, N., St-Onge, F., Vu, T. T. M., Bosquet, L., Arbour, N., & Bherer, L. (2019). Gross Motor Skills Training Leads to Increased Brain-Derived Neurotrophic Factor Levels in Healthy Older Adults: A Pilot Study. *Frontiers in Physiology*, 10, 410.  
<https://doi.org/10.3389/fphys.2019.00410>

Bieuzen, F., Hausswirth, C., & Dugué, B. (2019). Circulating soluble intercellular adhesion molecule-1 (sICAM-1) after exercise-induced muscular damage: Does the use of whole-body cryostimulation influence its concentration in blood? *Cryobiology*, 87, 120–122.  
<https://doi.org/10.1016/j.cryobiol.2019.01.013>

Berryman, N., Mujika, I., & Bosquet, L. (2019). Concurrent Training for Sports Performance: The 2 Sides of the Medal. *International Journal of Sports Physiology and Performance*, 14(3), 279–285.  
<https://doi.org/10.1123/ijsspp.2018-0103>

Gaudet, S., Begon, M., & Tremblay, J. (2019). Cluster analysis using physical performance and self-report measures to identify shoulder injury in overhead female athletes. *Journal of Science and Medicine in Sport / Sports Medicine Australia*, 22(3), 269–274. <https://doi.org/10.1016/j.jsams.2018.09.224>

Mejane, J., Faubert, J., Romeas, T., & Labbe, D. R. (2019). The combined impact of a perceptual-cognitive task and neuromuscular fatigue on knee biomechanics during landing. *The Knee*, 26(1), 52–60. <https://doi.org/10.1016/j.knee.2018.10.017>

## **2018**

Long S, Leclerc S, Tinjust D, Steele R, Schuster T, Shrier I. Determining Consistency And Agreement Of Scores Across Two Measurements Of The Visual System: Test-retest Reliability. *Medicine & Science in Sports & Exercise* 2018; 50(5S) S 664.

Long S, Leclerc S, Tinjust D, Steele R, Schuster T, Shrier I. Evaluating the Consistency and Agreement of Scores Across 2 Measurements of the Visual System: Test-Retest Reliability. *Clinical Journal of Sport Medicine*: May 2018 - Volume 28 - Issue 3 - p e51–e78.

Paquette, M., Bieuzen, F., & Billaut, F. (2018). Muscle Oxygenation Rather Than VO<sub>2</sub>max as a Strong Predictor of Performance in Sprint Canoe-Kayak. *International Journal of Sports Physiology and Performance*, 1–9. <https://doi.org/10.1123/ijsp.2018-0077>

Raymond, F., Lussier, B., Dugas, F., Charbonneau, M., Croteau, F., Kennedy, C., & Berryman, N. (2018). Using Portable Force Plates to Assess Vertical Jump Performance: A Metrological Appraisal. *Sports (Basel, Switzerland)*, 6(4). <https://doi.org/10.3390/sports6040149>

Neelamegam, M., Zgibor, J., Chen, H., & Anstey, K. (2018). THE EFFECT OF MEDICATIONS WITH ANTICHOLINERGIC PROPERTIES ON COGNITION: RESULTS FROM THE PATH THROUGH LIFE STUDY. *Innovation in Aging*, 2(suppl\_1), 507–508. <https://doi.org/10.1093/geroni/igy023.1885>

Vrinceanu, T., Pothier, K., Intzandt, B., Lussier, M., Berryman, N., Li, K., Vu T. T., M., & Bherer, L. (2018). COGNITIVE AND PHYSICAL ACTIVITY TRAINING IMPROVES DUAL-TASK PERFORMANCES THROUGH SPECIFIC MECHANISMS. *Innovation in Aging*, 2(suppl\_1), 503–503. <https://doi.org/10.1093/geroni/igy023.1869>

Vrinceanu, T., Pothier, K., Intzandt, B., Lussier, M., Berryman, N., Li, K., Vu T. T., M., & Bherer, L. (2018b). THE EFFECTS OF PHYSICAL AND COGNITIVE TRAINING ON MOBILITY AND EXECUTIVE FUNCTIONS IN OLDER ADULTS. *Innovation in Aging*, 2(suppl\_1), 508–508. <https://doi.org/10.1093/geroni/igy023.1886>

Richard, P., Koziris, L. P., Charbonneau, M., Naulleau, C., Tremblay, J., & Billaut, F. (2018). Time-Trial Performance in World-Class Speed Skaters After Chronic Nitrate Ingestion. *International Journal of Sports Physiology and Performance*, 13(10), 1317–1323. <https://doi.org/10.1123/ijsp.2017-0724>

Di Tomaso, C., Trempe, M., Berryman, N., & Mendrek, A. (2018). Aerobic exercise enhances retention of a gradually imposed visuomotor rotation. *Journal of Exercise, Movement, and Sport (SCAPPS Refereed Abstracts Repository)*, 50(1), 20–20.

<https://www.scapps.org/jems/index.php/1/article/view/1726>

Richard, V., Lebeau, J.-C., Becker, F., Boiangin, N., & Tenenbaum, G. (2018). Developing Cognitive and Motor Creativity in Children Through an Exercise Program Using Nonlinear Pedagogy Principles. *Creativity Research Journal*, 30(4), 391–401. <https://doi.org/10.1080/10400419.2018.1530913>

Chermann, J.-F., Romeas, T., Marty, F., & Faubert, J. (2018). Perceptual-cognitive three-dimensional multiple-object tracking task can help the monitoring of sport-related concussion. *BMJ Open Sport & Exercise Medicine*, 4(1), e000384. <https://doi.org/10.1136/bmjsem-2018-000384>

Richard, V., Lebeau, J.-C., Becker, F., Inglis, E. R., & Tenenbaum, G. (2018). Do more creative people adapt better? An investigation into the association between creativity and adaptation. *Psychology of Sport and Exercise*, 38, 80–89. <https://doi.org/10.1016/j.psychsport.2018.06.001>

Sygo, J., Coates, A. M., Sesbreno, E., Mountjoy, M. L., & Burr, J. F. (2018). Prevalence of Indicators of Low Energy Availability in Elite Female Sprinters. *International Journal of Sport Nutrition and Exercise Metabolism*, 28(5), 490–496. <https://doi.org/10.1123/ijsnem.2017-0397>

Gaudet, S., Tremblay, J., & Dal Maso, F. (2018). Evolution of muscular fatigue in periscapular and rotator cuff muscles during isokinetic shoulder rotations. *Journal of Sports Sciences*, 36(18), 2121–2128. <https://doi.org/10.1080/02640414.2018.1440513>

Pothier, K., Gagnon, C., Fraser, S. A., Lussier, M., Desjardins-Crépeau, L., Berryman, N., Kergoat, M.-J., Vu, T. T. M., Li, K. Z. H., Bosquet, L., & Bherer, L. (2018). A comparison of the impact of physical exercise, cognitive training and combined intervention on spontaneous walking speed in older adults. *Aging Clinical and Experimental Research*, 30(8), 921–925. <https://doi.org/10.1007/s40520-017-0878-5>

Clément, J., Toliopoulos, P., Hagemester, N., Desmeules, F., Fuentes, A., & Vendittoli, P.-A. (2018). Healthy 3D knee kinematics during gait: Differences between women and men, and correlation with x-ray alignment. *Gait & Posture*, 64, 198–204. <https://doi.org/10.1016/j.gaitpost.2018.06.024>

Delextrat, A., Gruet, M., & Bieuzen, F. (2018). Effects of Small-Sided Games and High-Intensity Interval Training on Aerobic and Repeated Sprint Performance and Peripheral Muscle Oxygenation Changes in Elite Junior Basketball Players. *Journal of Strength and Conditioning Research / National Strength & Conditioning Association*, 32(7), 1882–1891. <https://doi.org/10.1519/JSC.0000000000002570>

Dupuy, O., Billaut, F., Raymond, F., Benraiss, A., Theurot, D., Bosquet, L., Fraser, S., & Tremblay, J. (2018). Effect of Acute Intermittent Exercise on Cognitive Flexibility: the Role of Exercise Intensity. *Journal of Cognitive Enhancement*, 2(2), 146–156. <https://doi.org/10.1007/s41465-018-0078-z>

Gaudet, S., Tremblay, J., & Begon, M. (2018). Muscle recruitment patterns of the subscapularis, serratus anterior and other shoulder girdle muscles during isokinetic internal and external rotations. *Journal of Sports Sciences*, 36(9), 985–993. <https://doi.org/10.1080/02640414.2017.1347697>

Robert, A., Moroz, M., Var, D., Correa, J., & Delaney, S. (2018). P124: A new in-skates balance error scoring system for the sideline assessment of concussion in hockey players. *Canadian Journal of*

*Emergency Medicine*, 20(S1), S100–S101. <https://doi.org/10.1017/cem.2018.322>

Montero-Odasso, M., Almeida, Q. J., Burhan, A. M., Camicioli, R., Doyon, J., Fraser, S., Li, K., Liu-Ambrose, T., Middleton, L., Muir-Hunter, S., McIlroy, W., Morais, J. A., Pieruccini-Faria, F., Shoemaker, K., Speechley, M., Vasudev, A., Zou, G. Y., Berryman, N., Lussier, M., ... Bherer, L. (2018). SYNERGIC TRIAL (SYNchronizing Exercises, Remedies in Gait and Cognition) a multi-Centre randomized controlled double blind trial to improve gait and cognition in mild cognitive impairment. *BMC Geriatrics*, 18(1), 93. <https://doi.org/10.1186/s12877-018-0782-7>

Clément, J., de Guise, J. A., Fuentes, A., & Hagemester, N. (2018). Comparison of soft tissue artifact and its effects on knee kinematics between non-obese and obese subjects performing a squatting activity recorded using an exoskeleton. *Gait & Posture*, 61, 197–203. <https://doi.org/10.1016/j.gaitpost.2018.01.009>

Clément, J., Raison, M., & Rouleau, D. M. (2018). Reproducibility analysis of upper limbs reachable workspace, and effects of acquisition protocol, sex and hand dominancy. *Journal of Biomechanics*, 68, 58–64. <https://doi.org/10.1016/j.jbiomech.2017.12.010>

Berryman, N., Mujika, I., Arvisais, D., Roubex, M., Binet, C., & Bosquet, L. (2018). Strength Training for Middle- and Long-Distance Performance: A Meta-Analysis. *International Journal of Sports Physiology and Performance*, 13(1), 57–63. <https://doi.org/10.1123/ijsp.2017-0032>

## **2017**

Martin D, Marois B, Leclerc S, Comtois AS (2017). A Preliminary Study using Orthostatic Response to Look into Heart Rate Variability Analysis for Assessing Recently Concussed Athletes. *Clinical Journal of Sport Medicine*.

Trempe, M., Gohier, J.-L., Charbonneau, M., & Tremblay, J. (2017). Consolidation Effects in a Full-Body Diving Task. *Journal of Motor Learning and Development*, 5(2), 291–303. <https://doi.org/10.1123/jmld.2016-0048>

Labrecque, L., Rahimaly, K., Imhoff, S., Paquette, M., Le Blanc, O., Malenfant, S., Lucas, S. J. E., Bailey, D. M., Smirl, J. D., & Brassard, P. (2017). Diminished dynamic cerebral autoregulatory capacity with forced oscillations in mean arterial pressure with elevated cardiorespiratory fitness. *Physiological Reports*, 5(21). <https://doi.org/10.14814/phy2.13486>

Malenfant, S., Brassard, P., Paquette, M., Le Blanc, O., Chouinard, A., Nadeau, V., Allan, P. D., Tzeng, Y.-C., Simard, S., Bonnet, S., & Provencher, S. (2017). Compromised Cerebrovascular Regulation and Cerebral Oxygenation in Pulmonary Arterial Hypertension. *Journal of the American Heart Association*, 6(10). <https://doi.org/10.1161/JAHA.117.006126>

Richard, V., Halliwell, W., & Tenenbaum, G. (2017). Effects of an Improvisation Intervention on Elite Figure Skaters' Performance, Self Esteem, Creativity, and Mindfulness Skills. *Sport Psychologist*, 31(3), 275–287. <https://doi.org/10.1123/tsp.2016-0059>

Chaumillon, R., Romeas, T., Paillard, C., Bernardin, D., Giraudet, G., Bouchard, J.-F., & Faubert, J.

(2017a). Enhancing data visualisation to capture the simulator sickness phenomenon: On the usefulness of radar charts. *Data in Brief*, *13*, 301–305. <https://doi.org/10.1016/j.dib.2017.05.051>

Rouleau, D. M., Garant-Saine, L., Canet, F., Sandman, E., Ménard, J., & Clément, J. (2017). Measurement of combined glenoid and Hill-Sachs lesions in anterior shoulder instability. *Shoulder & Elbow*, *9*(3), 160–168. <https://doi.org/10.1177/1758573216681208>

Bherer, L., Lussier, M., Desjardins, L., Fraser, S., Li, K. Z., Berryman, N., Bosquet, L., & Vu, T. (2017). EFFECTS OF PHYSICAL EXERCISE, COGNITIVE TRAINING, AND COMBINED INTERVENTION ON EXECUTIVE FUNCTIONS. *Innovation in Aging*, *1*(suppl\_1), 1365–1365. <https://doi.org/10.1093/geroni/igx004.5023>

Chaumillon, R., Romeas, T., Paillard, C., Bernardin, D., Giraudet, G., Bouchard, J.-F., & Faubert, J. (2017b). The use of transdermal scopolamine to solve methodological issues raised by gender differences in susceptibility to simulator sickness. *Transportation Research. Part F, Traffic Psychology and Behaviour*, *47*, 42–58. <https://doi.org/10.1016/j.trf.2017.04.003>

Brassard, P., Ferland-Dutil, H., Smirl, J. D., Paquette, M., Le Blanc, O., Malenfant, S., & Ainslie, P. N. (2017). Evidence for hysteresis in the cerebral pressure-flow relationship in healthy men. *American Journal of Physiology. Heart and Circulatory Physiology*, *312*(4), H701–H704. <https://doi.org/10.1152/ajpheart.00790.2016>

Clément, J., Ménard, J., Raison, M., Dumais, J., Dubois, L., & Rouleau, D. M. (2017). Three-dimensional analysis of the locked position in patients with recurrent shoulder instability. *Journal of Shoulder and Elbow Surgery / American Shoulder and Elbow Surgeons... [et Al.]*, *26*(3), 536–543. <https://doi.org/10.1016/j.jse.2016.07.031>

Paquette, M., Le Blanc, O., Lucas, S. J. E., Thibault, G., Bailey, D. M., & Brassard, P. (2017). Effects of submaximal and supramaximal interval training on determinants of endurance performance in endurance athletes. *Scandinavian Journal of Medicine & Science in Sports*, *27*(3), 318–326. <https://doi.org/10.1111/sms.12660>

Borne, R., Hausswirth, C., & Bieuzen, F. (2017). Relationship Between Blood Flow and Performance Recovery: A Randomized, Placebo-Controlled Study. *International Journal of Sports Physiology and Performance*, *12*(2), 152–160. <https://doi.org/10.1123/ijsp.2015-0779>

Berryman, N., Bherer, L., Nadeau, S., Lauzière, S., Lehr, L., Bobeuf, F., Kergoat, M. J., Vu, T. T. M., & Bosquet, L. (2017). Relationships between lower body strength and the energy cost of treadmill walking in a cohort of healthy older adults: a cross-sectional analysis. *European Journal of Applied Physiology*, *117*(1), 53–59. <https://doi.org/10.1007/s00421-016-3498-4>

Clément, J., Dumas, R., Hagemeister, N., & de Guise, J. A. (2017). Can generic knee joint models improve the measurement of osteoarthritic knee kinematics during squatting activity? *Computer Methods in Biomechanics and Biomedical Engineering*, *20*(1), 94–103. <https://doi.org/10.1080/10255842.2016.1202935>

Richard, V., University of Montreal, Abdulla, A. M., Runco, M., Arabian Gulf University, & University of Georgia, Athens. (2017). Influence of skill level, experience, hours of training, and other sport

participation on the creativity of elite athletes. *Journal of Genius and Eminence*, 2(1), 65–76.  
<https://doi.org/10.18536/jge.2017.04.02.01.07>

Rodrigues, L., Vrinceanu, T., & Berryman, N. (2017). The effects of physical training cessation on executive functions in older adults. *In Aging*.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/pmc6242659/>