THE UNIVERSITY OF BRITISH COLUMBIA

School of Health and Exercise Sciences

Okanagan Campus

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ABOUT US AND WHO WE ARE

In 2023, the School had 20 full-time academic staff members. In combination with the School of Kinesiology at UBC Vancouver, the School was globally ranked #1 in Canada and #3 in the World in the QS University Rankings for sports-related subjects.

The School of Health and Exercise Sciences has consistently demonstrated its commitment to teaching and research excellence and our faculty members are committed to ensuring learning impact beyond the classroom.

The School has a dedicated group of educational leadership (teaching) faculty who are committed to implementing evidence-based and innovative teaching practices to help improve and enhance the student learning experience. Our School also works with cross-campus partners to support and improve the health and wellbeing of all UBC students.

The School of Health and Exercise Sciences encompasses a diverse research portfolio, ranging from systems physiology through to health behaviour change. The School has enjoyed significant research productivity, as assessed through external funding and publication of peer-reviewed outputs. Our faculty members and graduate students are working on a variety of research projects to explore human health and movement in today’s society with the goal to create positive change.

02

UNDERGRADUATE PROGRAM

Concentrations

Kinesiology redefined. The School offers a Bachelor of Health and Exercise Sciences with concentrations in Kinesiology and Allied Health, Health Behaviour Change, and Clinical Exercise Physiology.

Kinesiology and Allied Health

Involves studying the role of exercise and physical activity in improving health, fitness and performance as well as the prevention and rehabilitation of injuries.

Health Behaviour Change

Involves studying the concepts of evidence-informed behaviour change theory and techniques to help individuals and communities adopt and adhere to exercise and other health behaviours.

Clinical Exercise Physiology

Involves studying the assessment, planning, delivery and modification of exercise and physical activity to optimize health status, function, fitness and well-being in individuals with chronic disease

EXPERIENTIAL LEARNING

Experiential Learning is the cornerstone of our program. Our undergraduate students engage in many forms of competency-based courses, hands-on skill-building labs, community placements, independent research projects, and undergraduate honours research theses.

Community **Placements**

170

Health-related student placements

Placements in:

- clinical healthcare;
- injury rehabilitation;
- education;
- public health;
- sport performance;
- strength and conditioning;
- assessments & exercise prescription.

Experiential Learning Beyond the Classroom and Lab

Student Stats & **Highlights**

800

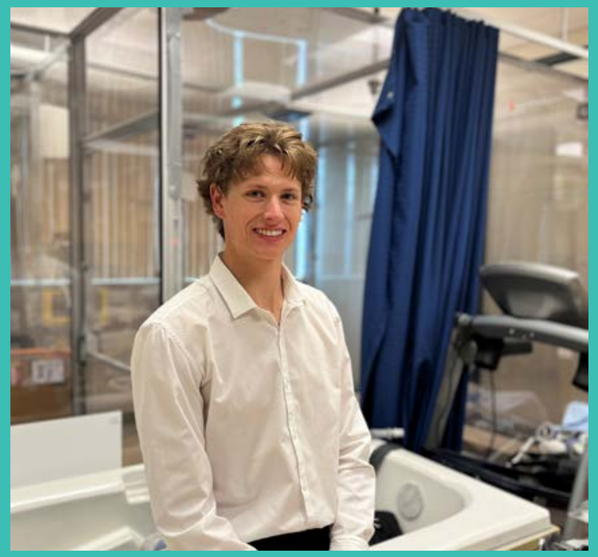
Undergraduate Students

Past Five Years

Over 200 Student Initiatives

- 130 independent research projects;
- 40 honours theses;
- 35 summer research awards.

Undergraduate **Stories**



Justin Monteleone

As an undergraduate, Justin Monteleone became interested in research after taking the Laboratory Techniques course and touring a professor's lab. He began volunteering in Dr. Phil Ainslie's lab, including as a participant in a demonstration of cold stress in a fourth-year Environmental Physiology course. The ice bath is a simple but practical illustration of some of the more significant themes of human physiology Dr. Ainslie explores in his lab, including key questions related to oxygen availability.

Read the full story here

Undergraduate **Stories**

Ava Neely

Ava Neely graduated in June 2023 with a Bachelor in Human Kinetics and a Minor in Psychology. Like many students, she started first year at UBC Okanagan without an exact map of her academic path before finding the ideal combination—and balance along the way.

“I started UBC Okanagan in the Faculty of Science,” says Ava. “With a competitive sports background, I met other students doing sports. Then I learned what kinesiology was about—the cognitive, social, emotional and physical benefits of exercise. I then transferred into the School of Health and Exercise Sciences. A Bachelor degree in Human Kinetics and a Minor in Psychology seemed a good fit.”

Among Ava’s achievements, she conducted research and attended conferences with the mentorship of Drs. Kathleen Martin Ginis and Heather Gainforth, successfully defended her Undergraduate Honours Thesis, and traveled on an international exchange to Monash University in Melbourne.

Read the full story here

03

GRADUATE PROGRAMS

2023 **Grad Program Stats**

24 MSc Students

45 PhD Students

15 Postdoctoral Fellows

GRADUATE STUDENT SCHOLARSHIPS

Graduate **Stories**

Christine Tallon

While a PhD candidate supervised by Dr. Ali McManus, Christine Tallon studied paediatric cerebral blood flow, exploring the influence of physical activity and sedentary behaviour in this population. In 2023, Christine co-authored a paper in Experimental Physiology on how prolonged sitting impacts the blood flow to children's brains and how exercise breaks can make a difference. Previous studies have focused on adults, but not children. The study found that, after sitting for three hours without exercise breaks, the children's cerebrovascular reactivity decreased. However, when exercise breaks were included, the children showed no sign of reduced cerebrovascular reactivity.

Read the full story here

Graduate **Stories**

Sarah Lawrason

Dr. Sarah Lawrason, while still a PhD candidate and then postdoctoral fellow, developed, implemented, and evaluated health promotion interventions among individuals with chronic conditions and disabilities. Integrating digital innovations into practice continues to be key to her research. In 2023 she published a study that tested the effectiveness of a mobile app, SCI Step Together, to encourage people living with a spinal cord injury to become more active. The results suggested the program is feasible, well-accepted and engaged participants. The program significantly improved the satisfaction of basic psychological needs, knowledge and self-monitoring of leisure-time physical activity.

Read the full story here

2023

3MT® THREE MINUTE THESIS

Two of our graduate students made it to the UBC Okanagan finals in the 3-minute thesis (3-MT) competition. This exciting event has graduate students communicate their projects to a lay audience in 3 minutes using one slide. Congrats Quinn and Alanna!

Quinn Malone

Program: PhD in Kinesiology
Supervisors: Dr. Chris McNeil & Dr. Brian Dalton

High-and-mighty or dazed-and-confused?

Quinn's research explores how acute cannabis use impacts functional motor behaviours and the underlying mechanisms to lay a foundation for further work in developing cannabis products and effective medicines.

Alanna Shwed

Program: PhD in Kinesiology
Supervisor: Dr. Heather Gainforth

Is the research system broken?

Alanna's research involves working alongside a spinal cord injury research organization to support an increase in the quantity and quality of research partnerships.

Seminar **Speaker Series**

2023-2024 Series Speakers

Dr. Shaelyn Strachan, University of Manitoba
Dr. Matteo Ponzano, University of British Columbia
Dr. Heather McKay, University of British Columbia
Dr. Alex Kent, University of British Columbia
Dr. Helen Jones, Liverpool John Moores University
Dr. Martin MacInnes, University of Calgary
Dr. Sally Stewart, University of British Columbia Okanagan
Dr. Jodie Koep, University of British Columbia Okanagan
Dr. Erica Heinrich, University of California, Riverside
Dr. Majidullah Shaikh, University of British Columbia Okanagan

UBC Okanagan's School of Health and Exercise Sciences presents a Seminar Series that not only showcases invited speakers from across Canada and the globe but provides important speaking opportunities for HES Postdocs. The seminar is a forum for critical academic discussion between researchers from all disciplines.

The series is designed to expand knowledge about topics from the broad field of kinesiology and health studies, providing a great networking opportunity for graduate students and faculty members. Seminars are open to the public and recorded for future reference.

04

Committed to learning in
and beyond the classroom

EDUCATIONAL LEADERSHIP & TEACHING

EDUCATIONAL LEADERSHIP

Greg duManoir
Associate Professor of Teaching

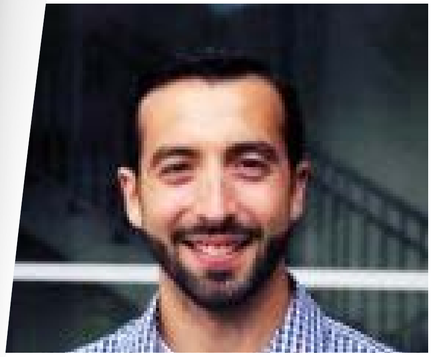
Dr. duManoir's focus is on advancing the use of innovative educational technology within the School and across the campus. Dr. duManoir is engaged with cross-campus networks to promote and deliver flexible learning. Within the School, he supports curriculum design, including the renewal of our undergraduate program with competency-based learning opportunities. He is also dedicated to the training of graduate students in teaching and learning

Tanya Forneris
Professor of Teaching

Dr. Forneris' teaching focus is in the area of community programming, sport psychology, research methods and statistics. Her educational leadership activities have been focused in the areas of curriculum development, enhancing student wellbeing along with academic success and mentoring graduate students in pedagogy.

Meaghan MacNutt
Assistant Professor of Teaching

Dr. MacNutt is trained as a physiologist, with expertise in cardiorespiratory, metabolic, and sex-based exercise physiology, as well as in the responses to hypoxia/high altitude, air pollution, allergens, and thermal stress.
As an educator, Meaghan works to equip students with the technical competencies of our discipline and to prepare them for collaborative, evidence-based professional practice. Meaghan aims to deliver an inclusive education that is as socially responsive as it is scientifically rigorous.



John Sasso
Assistant Professor of Teaching

Dr. Sasso's interests are centered in developing students' knowledge, training and skills as future health and exercise practitioners. Sasso's work focuses on supporting student learning of advanced practical skills in exercise therapy and training prescriptions. His work informs the development of future exercise professionals in order to meet the needs of their clients and patients.

Sally Stewart
Associate Professor of Teaching

"Dr. Sally" has taught in higher education with passion and enthusiasm for 35+ years. With content expertise in health promotion, nutrition and clinical exercise physiology, she carries the teaching load for health and nutrition courses, providing students further project opportunities to investigate these areas.
She plays a critical role at UBC and beyond, in addressing student wellbeing. Her SoTL/ Educational Leadership incorporates classroom practices for student wellbeing, course and curriculum development, for optimal learning and academic success. Furthermore, she is developing and evaluating educational modules for health profession curriculums to increase awareness of eating disorders and weight stigma/bias.

TEACHING

Hannah Connon
Lecturer

Dr. Connon’s expertise and focus lies in teaching and educational leadership, specifically cultivating practical skill development for entry to industry. Their background consists of both exercise physiology and exercise psychology, in both research and applied settings. As such, Hannah takes a multidisciplinary approach to help students succeed. Hannah believes that one of the most fulfilling parts of being an educator in health and exercise science is seeing students grow personally and professionally throughout their time in academia. They strive to support students in any way they can to ensure they get the most out of their degrees and leave feeling confident about their place in the industry.

Gina Whitaker
Lecturer & Undergraduate Program Coordinator

Dr. Whitaker received her Bachelor’s of Kinesiology from Simon Fraser University and earned a PhD in Cellular and Physiological Sciences from UBC Vancouver. She joined our School as an experienced university educator in 2017. As a lecturer, Gina is passionate about engaging students in their learning in innovative and supportive ways. Gina teaches several of our first- and second-year undergraduate classes and is the Undergraduate Program Coordinator where she plays a critical role supporting student success.

EL Initiatives

ALT 2040
Learning Transformation Fund

Re-envisioning Human Kinetics: Empowering Future Health and Exercise Professionals through Competency-Based Curriculum and Enhanced Experiential Learning Opportunities.

TLEF
EMPHASize Project

The EMPHASize Project: Developing, implementing and evaluating online curriculum modules for health professions' programs.

ISI
Indigenous Strategic Initiatives

Indigenous Strategic Initiatives (ISI) Fund: Community Engaged Development of an Indigenous Health Certificate at UBC Okanagan.

CEP
Program Development

Development of Clinical Exercise Physiology Training and Practice professional and educational competencies within professional organizations, post-secondary institutions and the Canadian healthcare system.

05

RESEARCH

RESEARCH

Phillip Ainslie
Professor & Principal's Research Chair

Centre for Heart, Lung & Vascular Health

Dr. Ainslie's research is directed to the integrated mechanisms, which regulate human cerebral (brain) blood flow in health and disease, including three interrelated areas: 1) Mechanisms of cerebral blood flow regulation in health and disease states; 2) Influence of environmental stress on integrative physiology and cerebrovascular function (with focus on hypoxia and temperature regulation); and, 3) Influence of acute and chronic exercise training on cerebrovascular function.

Brian Dalton
Associate Professor

Sensorimotor Physiology and Integrative Neuromechanics Laboratory

Dr. Dalton's research interests focus on understanding the sensorimotor control of human movement using various models of study (e.g., neuromuscular fatigue, hypoxia, acute cannabis ingestion, adult aging). His current research includes experiments related to understanding: 1) the sensorimotor control of balance following cannabis ingestion; 2) sensorimotor function during hypoxia; and 3) the neuromechanical control of the intrinsic foot muscles and their role in standing balance.

Neil Eves
Professor

Centre for Heart, Lung & Vascular Health

Dr. Eves' research interests are in the integrative aspects of pulmonary and cardiovascular physiology in health and disease. His current research focuses on how the pulmonary and cardiovascular systems interact and how these interactions mediate adverse symptoms, exercise intolerance and the accelerated progression of cardiovascular disease that occurs in patients with chronic respiratory conditions. Dr. Eves' program also explores the role of novel exercise therapies specifically tailored to alter and reverse the primary and secondary pathophysiology of respiratory diseases such as COPD and lung cancer.

Glen Foster
Associate Professor

Cardiopulmonary Laboratory for Experimental & Applied Physiology

As an integrative physiologist, Dr. Foster's research program approaches complex physiological problems using integrative and applied experimental approaches that focus on the cardiopulmonary systems in vivo. Dr. Foster is interested in human adaptation to hypoxia and the pathological consequences of intermittent hypoxia similar to that experienced by sleep apnea patients. His research focuses on the reflexive control of breathing and blood flow. Laboratory infrastructure supports human investigation of pulmonary, peripheral, coronary and cerebral blood flow regulation, work of breathing, cardiac function, direct measurement of sympathetic nerve activity, and novel technology development to measure tissue perfusion using contrast enhanced ultrasound.

Heather Gainforth
Associate Professor

Applied Behaviour Change Laboratory

Dr. Heather Gainforth is an Associate Professor at UBC Okanagan and is a Principal Investigator in UBC's Centre for Health Behaviour Change and the International Collaboration on Repair Discoveries. Dr. Gainforth's Applied Behaviour Change Lab aims to conduct and mobilize meaningful research in the areas of knowledge mobilization, behaviour change, and research partnerships. Notably, Dr. Gainforth leads an international research partnership that co-developed the first integrated knowledge

RESEARCH

Jennifer Jakobi
Professor

Healthy Exercise and Aging Laboratory

Dr. Jakobi's research program focuses on maintaining functional independence in older adults. The lab applies a number of neuromuscular techniques to explore sex-specific physiological adaptations with aging. Dr. Jakobi is particularly interested in applying acute and chronic exercise interventions to understand neuromuscular plasticity for functional gain.

Mary Jung
Associate Professor

Diabetes Prevention Research Group

Dr. Jung's research program examines dietary and physical activity behaviour change and maintenance, with a particular interest in diabetes prevention. Dr. Jung works with an interdisciplinary team of scientists and community-based organizations to test the efficacy, effectiveness, implementation, and sustainability of equitable and inclusive health behaviour interventions into practice and community settings. She also evaluates programs that seek to assist individuals make dietary and exercise changes (e.g., national physical activity programs, Health apps, prediabetes and type 2 diabetes online platforms).

Jonathan Little
Professor

The Exercise, Metabolism and Inflammation Laboratory

Dr. Little's Exercise Metabolism and Inflammation Laboratory (EMIL) employs a broad spectrum of techniques, from whole-body metabolic measurement in humans to advanced molecular analyses in isolated cells. Studies range from applied exercise interventions in clinical populations (e.g., people living with type 2 diabetes) to basic studies examining intracellular signaling pathways and gene expression in cultured cells. Human exercise intervention studies are focused on the health benefits of time-efficient exercise strategies (e.g., exercise snacks) and nutrition research is centered around treatment and remission of type 2 diabetes.

Kathleen Martin Ginis
Professor

SCI Action Canada Laboratory

Dr. Martin Ginis' research program focuses on the psychosocial mechanisms and consequences of physical activity behaviour change. She has a particular interest in physical activity among people with spinal cord injury and frequently works with multi-disciplinary teams to study various health outcomes (e.g., cardiovascular disease risk, pain). Dr. Martin Ginis also works closely with numerous community-based organizations on research and knowledge translation projects to advance physical activity participation among Canadians with disabilities.

Alison McManus
Professor

Pediatric Exercise Research Laboratory

Dr. McManus' research focuses on the physiological consequences of sedentary behavior in children. She uses experimental models of sitting in the laboratory, alongside community based observational studies to: examine the impact of too much sitting on the vascular system; 2) whether breaking-up prolonged sitting with exercise preserves vascular function and; 3) discovering the dose response relationship between exercise and vascular benefit in children.

RESEARCH

Chris McNeil
Associate Professor

Integrative Neuromuscular Physiology Laboratory

Dr. McNeil's program of research uses an integrative approach to investigate the performance and plasticity (adaptability) of the human neuromuscular system. Specifically, Dr. McNeil studies how the brain, spinal cord and muscles respond to acute interventions (e.g., muscle fatigue, hypoxia or conditioning stimuli) or chronic perturbations (e.g., aging, training or disease).

Rob Shave
Professor

Associate Dean Research

Dr. Shave's research interests focus on understanding the acute and chronic effects of exercise and/or environmental stress upon cardiac structure and function. Using echocardiography and biomarkers, Dr. Shave combines comparative and experimental physiology approaches to further understand how the mammalian heart has evolved, and how the cardiovascular system remodels in response to exercise, or physical activity in a range of populations.

Paul Van Donkelaar
Professor

Brain Injury Laboratory

Dr. van Donkelaar's research focuses on gaining a better understanding of brain injury (TBI) in women who have experienced intimate partner violence. Dr. van Donkelaar and his team are using an integrated knowledge translation approach with the goal of co-designing and creating TBI-informed tools and resources for front-line staff working at community organizations supporting survivors.

Priority **Research Areas**

The span of research activities within the School is broadly encapsulated under three overarching thematic areas, with some faculty conducting research that sits between these areas. Each area has identified key aims to help the School achieve its mission.

SENORIMOTOR NEUROSCIENCE AND NEUROMUSCULAR PHYSIOLOGY

Our faculty are helping reshape our understanding of the mechanisms responsible for motor behaviour across the adult lifespan.

CARDIOVASCULAR AND RESPIRATORY PHYSIOLOGY

Through innovative research into the causes, consequences and treatment of cardiovascular, pulmonary and cerebrovascular diseases, our faculty are working to produce and disseminate internationally-leading research.

HEALTH BEHAVIOUR CHANGE

Our researchers are playing a key role in reshaping how we manage and prevent chronic disease through innovative research decision-maker engagement and knowledge mobilization.

Research Centres

Centre for Heart, Lung, & Vascular Health

- The Centre for Heart, Lung and Vascular Health (CHLVH) was established as a centre of research excellence in the BC interior to focus specifically on heart, lung and vascular health research throughout the human lifespan.

Centre for Health Behaviour Change

- The Centre for Health Behaviour Change conducts and translates research to develop best-practices that support the initiation and maintenance of physical activity and healthy eating, and the cessation of smoking.

Our Centres are collaborative research spaces with multiple labs working together

HES Research **Metrics**

Number of Publications

98

Active Researchers

15

Average Total Funding Dollars Over Past 5 Years

$3.44 MILLION

Current Active Tri-Council Grants (2023)

NSERC

13 GRANTS
TOTAL = $598,000

CIHR

8 GRANTS
TOTAL = $486,198

SSHRC

3 GRANTS
TOTAL = $95,089

2023 ROYAL SOCIETY

OF CANADA INDUCTEE

Dr. Kathleen Martin Ginis, a Professor in the School who is also cross-appointed in the UBC Faculty of Medicine, was named a Fellow of the Royal Society of Canada (RSC) in 2023. Recognized as one of Canada's highest scientific honours, fellows of the RSC are distinguished Canadians who have made remarkable contributions to the arts, humanities, or sciences, as well as in Canadian public life.

KATHLEEN MARTIN GINIS

READ THE FULL STORY HERE

RESEARCH AWARDS

2023 RESEARCHER OF THE YEAR

HEATHER GAINFORTH

Dr. Heather Gainforth, an Associate Professor in the School of HES and a researcher within the Centre for Health Behaviour Change, is making the world a better place through excellence in research and practice. She is the recipient of the 2023 UBCO Health Researcher of the Year award. Her current focus is in the area of spinal cord injury (SCI) and helping the community live better by engaging directly with people living with SCI.

READ THE FULL STORY HERE

RESEARCH AWARDS

2023 POSTDOCTORAL RESEARCHER OF THE YEAR

FEMKE HOEKSTRA

Dr. Hoekstra was awarded the 2023 UBCO Postdoctoral Researcher of the Year for her research focused on understanding and improving knowledge translation processes, especially in the area of rehabilitation and physical activity promotion. Dr. Hoekstra has a particular interest and expertise in health behavioral change research related to people with spinal cord injury and other physical disabilities. Dr. Hoekstra is supervised by Drs. Kathleen Martin Ginis and Heather Gainforth in the Centre for Health Behaviour Change.

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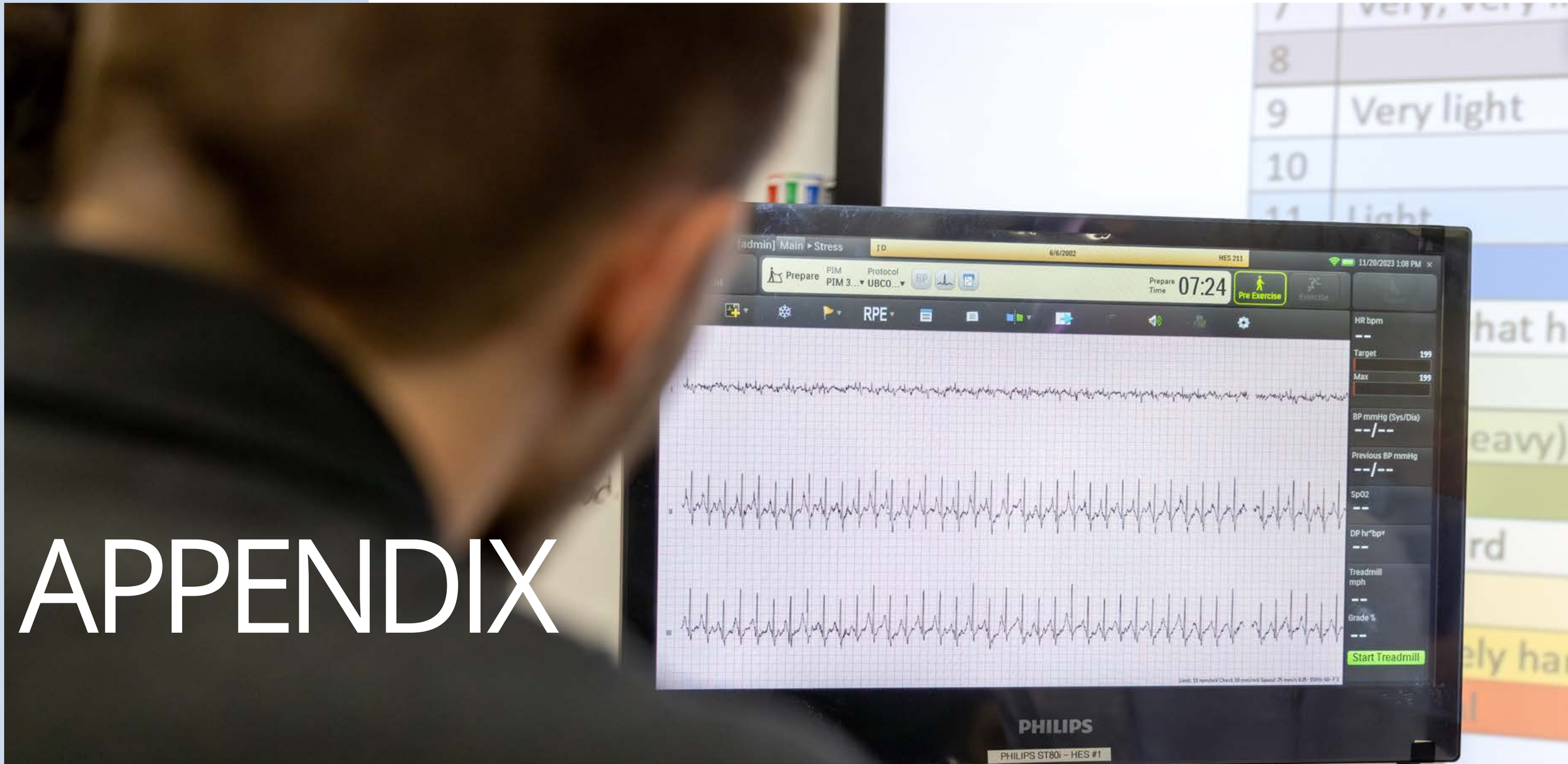
APPENDIX


Prepare
PIM
PIM 3...
Protocol
UBCO...
Prepare Time
07:24
Pre Exercise
RPE
HR bpm
Target 199
Max 199
BP mmHg (Sys/Dia)
Previous BP mmHg
SpO2
Treadmill mph
Grade %
Start Treadmill
PHILIPS
PHILIPS ST80i – HES #1

2023 Publications

Published

1. Adhikari, S. P., Maldonado-Rodriguez, N., Smirl, J. D., Boyle, Q., Mason, K., & **Van Donkelaar, P.** (2022). Cognitive-Motor Deficits and Psychopathological Comorbidities in Intimate Partner Violence-Caused Brain Injury. In C. Martin, V. R. Preedy, & V. B. Patel (Eds.), Handbook of Anger, Aggression, and Violence (pp. 1–27). Springer International Publishing. https://doi.org/10.1007/978-3-030-98711-4_40-1
2. Allan, V., **Gainforth, H.**, Turnnidge, J., Konoval, T., Côté, J., & Latimer-Cheung, A. (2023). Narrative as a learning tool for coaches of athletes with a disability: Using stories to translate research into practice. *Physical Education and Sport Pedagogy*, *28*(5), 546–567. https://doi.org/10.1080/17408989.2021.2006619
3. Amann, M., Sidhu, S. K., **McNeil, C. J.**, & Gandevia, S. C. (2023). Transcranial direct current stimulation to enhance athletic performance: Are we there yet? Will we ever get there? *The Journal of Physiology*, *601*(23), 5457–5458. https://doi.org/10.1113/JP285691
4. Armstrong, N., & **McManus, A. M.** (2023). Cardiopulmonary responses to exercise. In N. Armstrong, W. van Mechelen, N. Armstrong, & W. V. Mechelen (Eds.), *Oxford Textbook of Children's Sport and Exercise Medicine* (p. 0). Oxford University Press. https://doi.org/10.1093/med/9780192843968.003.0010
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8. Bird, J. D., Sands, S. A., Alex, R. M., Shing, C. L. H., Shafer, B. M., Jendzjowsky, N. G., Wilson, R. J. A., Day, T. A., & **Foster, G. E.** (2023). Sex-related Differences in Loop Gain during High-Altitude Sleep-disordered Breathing. *Annals of the American Thoracic Society*, *20*(8), 1192–1200. https://doi.org/10.1513/AnnalsATS.202211-918OC
9. Boulet, L. M., Cotton, P. D., Petrassi, F. A., Lovering, A. T., & **Foster, G. E.** (2023). Quantification of shunt fraction using contrast ultrasound and indicator dilution in an *in vitro* model. *Respiratory Physiology & Neurobiology*, *310*, 104013. https://doi.org/10.1016/j.resp.2023.104013
10. Bremer, E., Arbour-Nicitopoulos, K. P., Tsui, B., **Ginis, K. A. M.,** Moore, S. A., Best, K. L., & Voss, C. (2023). Feasibility and Utility of a Fitbit Tracker Among Ambulatory Children and Youth With Disabilities. *Pediatric Exercise Science*, *35*(4), 249–257. https://doi.org/10.1123/pes.2022-0121
11. Brewster, L. M., Bain, A. R., Garcia, V. P., DeSouza, N. M., Tymko, M. M., Greiner, J. J., & **Ainslie, P. N., P. N.** (2023). Global REACH 2018: High Altitude-Related Circulating Extracellular Microvesicles Promote a Proinflammatory Endothelial Phenotype In Vitro. *High Altitude Medicine & Biology*, *24*(3), 223–229. https://doi.org/10.1089/ham.2023.0013

12. Bruce, C. D., Magnuson, J. R., & **McNeil, C. J.** (2023). Voluntary activation does not differ when using two different methods to determine transcranial magnetic stimulator output. *Journal of Neurophysiology*, *130*(4), 925–930. https://doi.org/10.1152/jn.00132.2023

13. Brunton, N. M., Barbour, D. J., Gelinas, J. C., Yacyshyn, A. F., **Sasso, J. P.**, Harper, M. I., **McNeil, C. J.**, Melzer, B., Agar, G., & **Eves, N. D.** (2023). Lower-limb resistance training reduces exertional dyspnea and intrinsic neuromuscular fatigability in individuals with chronic obstructive pulmonary disease. *Journal of Applied Physiology (Bethesda, Md. : 1985)*, *134*(5), 1105–1114. https://doi.org/10.1152/japplphysiol.00303.2022

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16. Carr, J. M. J. R., Day, T. A., **Ainslie, P. N.,** P. N., & Hoiland, R. L. (2023). The jugular venous-to-arterial PCO2 difference during rebreathing and end-tidal forcing: Relationship with cerebral perfusion. *The Journal of Physiology*, *601*(19), 4251–4262. https://doi.org/10.1113/JP284449

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18. Castan, A., Opisso, E., Chamarro, A., Ginis, K. A. M., & Saurí, J. (2023). Adaptation to Spanish and Validity by Wearable Sensors of the Physical Activity Recall Assessment for People with Spinal Cord Injury. *Measurement in Physical Education and Exercise Science*, *27*(4), 362–376. https://doi.org/10.1080/1091367X.2023.2192194

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