

Poster Session 1

Wednesday May 20 (7:45PM – 8:45PM)

Poster #	Name	Affiliation	Poster Title
1	Megan Hutter	Western University	Longitudinal Three-Dimensional Ultrasound Synovial Blood Flow Volume Assessment in Thumb Osteoarthritis
2	Nigel Majoni	University Health Network	Stepping Strategy for Lateral Balance Perturbations Predict Successful and Unsuccessful Reactions in Healthy Older Adults and People with Chronic Stroke
3	Cailin Blair	Wilfrid Laurier University	The Influence of History of Concussion and Fatigue on Gait Initiation
4	Rosa Mirshahi	York University	Lower Limb Outcomes in Adults with and without Shoulder Pain
5	Serena Cardoso	Wilfrid Laurier University	Use of Virtual Reality During Slip Perturbations
6	Olivia Szczepanek	University of Waterloo	Investigating Effectiveness of Landmarking Techniques in Young and Older Females of Different Body Compositions
7	Jacob Schweyer	University of Guelph	Location Dependent Peroneus Longus Cutaneous Reflexes with Load
8	Ella Callaghan	University of Waterloo	Influence of Hair Types and Styles on Industrial Protective Headwear
9	Ian Doctor	Brock University	Effect of Artificial Limb-Length Asymmetry on Lumbar Paraspinal Muscle Activation in Functional Movement Tasks
10	Jeffrey Visbal	Western University	Force and Image Collection of the Wrist Joint of Football Player's When in the Prone Blocking Position
11	Jason Aibi	Brock University	The Effect of Perturbation Training on Dynamic Knee Stability in Copers and Non-Copers Following ACL Injury: a Critically Appraised Topic
12	Bhavna Birdi	Wilfrid Laurier University	Combining Nucleus Pulposus Hydrogel with Annular Closure
13	Allison Penner	Wilfrid Laurier University	Orthotics in Diabetic Neuropathy
14	Alexandra Blandford	University of Waterloo	Evaluating Predictive Model Generalization for Machine Learning-Based Markerless Upper-Limb Kinematics Estimation in Industrial Work

15	Morleigh Mckenna	Carleton University	Concussion Impairs Balance: Insights From Static Posturography and EMG
16	Andras Dobai	Carleton University	Hookers and Rollers in Armwrestling: An Anthropometric, Dynamometric and Kinematic Analysis
17	Isabelle Battersby	Western University	Investigating Load Management in Jump Sport Athletes
18	Kasia Puzio	University of Waterloo	High-Speed Ultrasound for Impact Biomechanics
19	Dylan Mun	Waterloo	The Effects of Compressive Load on Functional Spinal Joint Failure in Cumulative Exposure Paradigms
20	Tiffany Hsu	Brock University	Measuring Friction in Hockey Goalie Pads
21	Kirsten Nowell	Ontario Tech University	Scoping Review of Physical Exposures and Outcomes During Manual Massage Therapy
22	Jonathan Eskinazi	Wilfrid Laurier University	The Effect of Spinal Flexion of Disc Mechanics
23	Aida Chubbs	Western University	Reverse Total Shoulder Arthroplasty Wear Testing
24	Olivia Laviolette	University of Guelph	Exploring the Effects of Combining HIIT Exercise and Task Specific Training on Cognitive Motor Dual-Task Performance
25	Kayli Machura	Western University	Lumbar Erector Spinae Activation Patterns Using High-Density Surface Electromyography
26	Evelyn Sokolowski	University of Guelph	Design of a High-Fidelity 3d Printed Canine Tibia Fracture Fixation Model
27	Jared-Isaac Friedel	University of Waterloo	Niosh Calculated Using Computer Vision
28	Kyle Sage	Wilfrid Laurier University	Balance Consideration for Work Boots
29	Rachel Low	University of Guelph	Menopause and Spinal Degeneration
30	Noelle Donatelli	McMaster University	Effects of Load, Posture, Occlusion on Ct in Females
31	Abeer Malik	University of Waterloo	Does Coordination Explain Task Performance Time in Select Firefighting Tasks
32	Jared Hughes	University of Guelph	Cutaneous Reflexes in the Abductor Hallucis While Seated with Load
33	Emma Ratke	Brock University	Quantifying Changes to Paraspinal Muscle Pennation Angle in Response to Alterations in Lumbar Posture and Muscle Activation
34	Charlotte Green	Trent University	The Influence of Hand Posture on Upper Arm Muscle Activity During Isometric Wrist Contractions
35	Amber Van Nes	University of Guelph	The Effect of Foot Progression Angle on Magnitude and Location of Tibiofemoral Joint Contact forces During Running

36	Andrew Kan	Queen's University	Gait Biomechanics and T2 MRI of Tibiofemoral Cartilage 3 Years After ACL Reconstruction
37	Adam Rusin	Waterloo	Force Direction Effects on Lumbar Segmental Stiffness
38	Hayley Janes	Ontario Tech University	Validation of Theia3d for Upper Extremity Motions
39	Benjamin Kozlowski	University Health Network	Torque-Matched Motor Point Stimulation Therapy Enhances Corticospinal Excitability
40	Anastasia Sullivan	Wilfrid Laurier University	Spine Extension in Dancers
41	Valentina Massone	Brock University	Robotic Assessments of Hand Function
42	Hua-Bin Lin	University of Waterloo	Individual Muscle Contributions to Lower Limb Feasible Force Sets
43	Karina Wilson	Wilfrid Laurier University	Spinal Twist and Its Effect on the Annulus Fibrosus
44	Levi Morrissy	Trent University	The Influence of Sustained Maximal Isometric Wrist Flexion and Extension on Antagonist Maximal Force and Muscle Activity
45	Teodora Maluckov	University of Waterloo	Salmon Calcitonin Effect on Bone Remodeling
46	Sylvia Masse	University of Waterloo	Hip Muscle Coordination on 3d Hip Dynamics During Squat Tasks
47	Aaron Austin	Western University	Force and Kinematic Analysis of Fatigue in Collegiate Baseball Players in a Simulated Game Environment
48	Jared Seick	Brock University	The Effect of Eccentric Muscle Damage on the Topographical Activation Patterns of the Biceps Brachii Muscle
49	Zoe Holliday	Western University	Evaluation of Labral Behaviour Following Cam Over-Resection and Labral Reconstruction
50	Trinity Pambis	University of Waterloo	Does Jerk Explain Discomfort During Stair Chair Conveyance
51	Ashley Vanderhaeghe	University of Guelph	Topical Menthol and Camphor Alter Ankle Proprioception
52	Olivia Yang	University of Waterloo	Muscle-Bone Interactions in Glenohumeral Oa
53	Emily Marino	University of Guelph	Caution Under Visual Complexity: Reduced Speed and Safety Margins Used in Virtual Navigation

Poster Session 2

Thursday May 21 (6:00PM – 7:00PM)

Poster #	Name	Affiliation	Title
1	Molly Malette	McMaster University	Effects of Mental Fatigue on Muscle Activity and Performance
2	Sadie Finch	University of Waterloo	Trunk Position Influence on Biomechanical Demand Distribution
3	Tom Boers	Western University	The Influence of Age and Competition Level on Ankle Stiffness During Running
4	Travis Winteler	Brock University	Forearm Muscle Activity During Grip Strengthening Exercises
5	Derrick Lim	University Health Network	Muscle Recruitment Using Conventional FES and Spatially Distributed Sequential Stimulation
6	Claudia Hall	Wilfrid Laurier University	Cyclic Flexion and Disc Mechanics
7	Mitchell Brydon	Wilfrid Laurier University	Chronic Ankle Injury and Orthotics
8	Aurora Battis	Brock University	The Effects of Skin and Muscle Targeted Vibrotactile Feedback on Standing Balance and Postural Control
9	Tyler Brown	Brock University	Measuring Hand force s for Automotive Assembly
9	David Imeson	University of Waterloo	Effects of Ladders on Manual Materials Handling
11	Harish Balasubramanian	Wilfrid Laurier University	Low Back Pain and Orthotics
12	Faris Ibrahim	Western University	The Influence of Biological Sex on Dynamic Lumbar Spine Stability Following Trunk Muscle Fatigue
13	Madi Hunter	Brock University	Two Person Nurse Patient Handling
14	Melanie Altamirano	Brock University	Sex Differences in forearm Motor Unit Properties
15	Erinn McCreath Frangakis	University of Waterloo	Spinal Stiffness Variation by Lumbar Vertebral Level
16	Stephanie DiNunzio	University Health Network University of Toronto	A Wearable E-Textile Neuroprosthesis
17	Ainsley Durnin	University of Waterloo	Uniarticular and Biarticular Muscle Function During Squat Tasks

18	Aliza Siebenaller	University of Guelph	Spinal Deformity and Muscle Degeneration
19	Joanna Misquitta	McMaster University	The Influence of Height and Sex on Two-Person Team Lifting
20	Peter Ditner	University of Windsor	Assessment of the Efficacy of a Powered Back Support Exoskeleton for Home Health Care Patient Transfers
21	Ethan Brito	Ontario Tech University	Effects of DPI Mouse Settings on Upper Limb Range of Motion
22	Jamie Biggar	University of Windsor	Differences in Head Impacts Across Age Divisions in Youth Hockey
23	Renée Hachey	Queen's University	Predicting Running Fatigue with Smartwatch Data
24	Rayna Ghosh	University Health Network	Internal Gait Perturbation Using Dysfunctional Functional Electrical Stimulation
25	Adam Highfield	Brock University	Human to Humanoid Gait Reproduction and Perception
26	Kate Posluszny	University of Waterloo	Personal Support Workers' Lumbar Extensor Moments
27	Kate Krivenko	University of Waterloo	Examining the Changes in Passive Tissue Properties of the Lumbar Spine Following a Single Sitting Bout and Active Recovery
28	Daniel Cousins	Brock University	Electrode Placement Techniques for forearm Electromyography
29	Danielle Peters	University of Waterloo	Ultrasound Shear Wave Elastography: Standoff and Orientation Effects
30	Areeba Anwer	McMaster University	Stroke Rate and Drag Factor Influence Power and force During Ergometer Rowing
31	Hunter Schulz	Western University	Preventing Musculoskeletal Disorders in Ophthalmologists: Evaluating Ergonomic Slit Lamp Designs
32	Ellora Khandekar	University Health Network	Developing Patient Education Materials to Aid the Informed Consent Process for Biomechanics Studies
33	Deeksha Kumar	Wilfrid Laurier University	Flexion-Induced Creep Alters Annulus Mechanics
34	Lea Gerditschke	Trent University	The Influence of Resistance Training Status on forearm Muscle Activity, Wrist Kinematics, and Revised Strain Index Scores During Simulated Painting and Tarping Tasks
35	Elizabeth Pirritano	Brock University	Foot Core Adaptations in Adolescent Ballet Dancers: Effects of Pointe Training and Sport Specialization
36	William Lowrie	Queen's University	Does Early Functional Electrical Stimulation Improve Gait Biomechanics After Anterior

			Cruciate Ligament Reconstruction? a Pilot Randomized Controlled Trial
37	Mohammadreza Kheshti	Western University	Labral Mechanics After Femoroacetabular Impingement (Fai) Related Surgery
38	Joti Hundal	University of Waterloo	Developing a Digital Reconstruction Framework for Fragmented Hominin Scapulae
39	Laura Marrelli	University of Guelph	Heel Cutaneous Stimulation on MU Behaviour During Sustained Plantarflexion
40	Logan McDonald	Trent University	Investigating the Association Between Progressive Forearm Fatigue Development and Isometric Wrist Force Accuracy
41	Roth Rosalyn	University of Waterloo	The Influence of Indenter Head Design on Spinal Stiffness Measurement and Repeatability
42	Abby Hughes	Western University	Retrospective Associations Between Youth Physical Activity and Adult Lumbar Spine Stiffness
43	Ben Mazin	McMaster University	Common Risk Factors Between MSD and Psychological Outcomes
44	Ella Rae	Trent University	Comparing forearm Muscle Activity, Wrist Kinematics, and Revised Strain Index Scores Between Resistance-Trained and Untrained Individuals During a Simulated Tire Change Task
45	Jameson Vanstone	University of Waterloo	Validation of Xsens Low-Back Kinematics
46	Mara Girleanu	McMaster University	Clusters of MSD Psychosocial Factors
47	Soheila Moradi	University of Waterloo	Exacerbation of Patellofemoral Pain Alters Knee Joint Mechanics
48	Yuechen Liu	Carleton University	Feasibility of Stress Monitoring During Student Exams
49	Isabella Tierney	University of Waterloo	Development of a Hill-Type Shoulder Muscle Model
50	Hayden Hartwick	University of Windsor	Head Impact Speeds and Player Anticipation in Youth Hockey
51	Umar Yousufy	Brock University	Understanding the Role of the Foot Core System in Countermovement Jump Performance
52	Maya Pappas	Wilfrid Laurier University	Effects of Lower Limb Fatigue on Balance During Foot Contact Perturbations
53	Mary Robakowski	University of Waterloo	Clinical-Microct Image Registration
54	Jordan Rogers	Brock University	Effects of a Single Session of Neuromuscular Electrical Stimulation to the Tibialis Anterior on Balance Control