

OBC 2023
MAY 9-11, 2023
POSTER PRESENTATION SCHEDULE

Poster Session A – AHS Foyer Tues May 9 7:50P-8:50P		
1	Ikeade Adeyinka University of Toronto	Association Of Malalignment On Cartilage Wear
2	Benjamin Allen Ontario Tech University	Estimating Effort Durations For Common Automotive Manufacturing Tasks
3	Richard Barina University of Waterloo	Topology Optimization Of Spinal Implants Under Physiologic Loads
4	Daniel Beshay University of Waterloo	Proximal Humerus Fracture Testing
5	Anita Borhani University of Toronto	Racial Differences In Lower Extremity Kinematics
6	Kristen De Melo University of Guelph	Optic Flow Influence On Muscle Activity In The Absence Of Movement In Different Body Positions
7	Kyle Farwell University of Toronto	Should Spine Motion Be Constrained While Stretching The Hip?
8	Randa Mudathir Western University	Four-Dimensional Ultrasound For Assessing Ligament Laxity In Thumb Osteoarthritis Patients
9	Kate Posluszny University of Waterloo	Efficacy Of Portable Lift Assist Devices For Paramedics
10	Aryen Shakib McMaster University	Numeric Validation Of Thoracic Blunt Ballistic Trauma In Human Body Models
11	Kim Stroesser University of Windsor	Injuries In Adult Pickleball Players.
12	Tiffany Tiu University of Toronto	Objective Validation Of A Novel Star Excursion Test
13	Kristin Yates University of Guelph	Adjustable Table Height For Cooking
14	Gokhan Bozyigit Brock University	Key Performance Indicators During 50 And 100 Meter Swim Lengths Across Four Swim Strokes
15	Josh Briar University of Guelph	Intervertebral Disc Pathology And Muscle Function
16	Calaina Brooke Wilfrid Laurier University	Balance After Concussion In Response To Perturbations
17	Hannah Coyle-Asbil University of Guelph	Wearables To Estimate The Energy Expenditure Of Preschool-Aged Children
18	Cole Dennis McMaster University	Characterization Of Soft Tissues And Their Role In Impact Attenuation For Injury Assessment Applications

19	Emma Donnelly Western University	Comparing Laxity In Robotic-Assisted And Conventional Total Knee Arthroplasty To Intact Knees
20	Lynton Lam University of Guelph	Sport Participation And Balance
21	Cameron Lang Brock University	Work From Home Computer Workstations
22	Nigel Majoni McMaster University	Markerless Motion Capture For The Hands And Fingers
23	Alexandre Mir-Orefice University of Ottawa	Smart Insole Validation
24	Elizabeth Norman Western University	Comparison Of Muscle Forces During Active Flexion-Extension Motion Of The Wrist Before And After Total Wrist Arthroplasty
25	Kayla Russell-Bertucci University of Waterloo	Characterizing Surface Electromyography Muscle Activity And Upper Arm Kinematics In Video Game Players
26	Aliza Siebenaller University of Guelph	Spinal Deformity And Muscle Degeneration
27	Pratham Singh University of Toronto	Testing Environment Effects On Lower Extremity Kinematics
28	Sabrina Sinopoli Wilfrid Laurier University	Inflammation's Effect On The Annulus Fibrosus
29	Shahla Ziamanesh Nipissing University	Hand Transmitted Vibration During Impact Wrench Use
30	Dan Anzovino Brock University	Subthreshold Vibration And Standing Balance
31	Jessa Buchman-Pearle University of Waterloo	The Association Between Lateral Asymmetries And Low Back Pain
32	Miguel Corrales University of Waterloo	Comparison of Young and Older Adult Small Stature Female Rib Fracture in Side Impacts of Varying Velocities
33	Jessica Flammia University of Windsor	A Descriptive Analysis Of The Upper Body Kinematics Of Conductors
34	Donna Fok University of Waterloo	Low Back Responses To Running Shoe Midsole Cushioning
35	James Hunter Western University	Age-Related Differences In Glenohumeral And Scapulothoracic Kinematics Using 4dct
36	Hannah McMaster Brock University	The Role Of Diurnal Variation In Standing Low Back Discomfort
37	Andra Neptune Wilfrid Laurier University	The Effect Of Cyclic Loading On The Annulus Fibrosus
38	Jarrett Norrie Brock University	Automated Golf Performance Assessment Using Markerless Motion Capture Derived From A Cell Phone Camera
39	Behzad Danaei University of Waterloo	Dynamic Simulation Approach For Acetabular Cup Orientation Optimization
40	Isaac Seabrook Brock University	Effects Of Theraband Resistance On Sagittal Plane Kinematics Of The Back Squat
41	Tushar Sharma	Skin Input Persistent Inward Current

	University of Guelph	
42	Gillian Slade Ontario Tech University	Assessing The Reliability Of Maximum Voluntary Contraction Protocols
43	David Varandas University of Waterloo	Peak Flexion Moments During Squat, Stoop, And Straddle Lifts
44	Aidan Abraham McMaster University	Relationship Between Energy Absorption And Meniscal Function During Dynamic Knee Movement In Pediatric Patients With Acl Tear
45	Taylor Carson McMaster University	Isometric And Isokinetic Torque In Acl Defficient Adolescents With And Without Meniscal Tears
46	Alexandre Galley Western University	A Comparison Of Driving Vs Non-Driving Muscle Forces On A Novel Muscle Actuator System
47	Meghan Hanton-Fong University of Waterloo	Investigating The Repeatability Of Compensatory Movements In Rotator Cuff Tears To Improve Wearable Device Tracking
48	Madi Hunter Brock University	Adaptive Robotics For Wrist Rehabilitation
49	Adam Kapasi University of Guelph	Abductor Hallucis Cutaneous Reflex
50	Kristie Liu University of Toronto	Comparison Of Lower Limb Kinematics Between Marker-Based And Markerless Motion Capture
51	Sophia Nikitin Brock University	Forearm Muscle Fatigue During Computer Mouse Tasks
52	Grace O'Neill Nipissing University	Relationships Between Kinematic And Performance Variability During Obstacle Crossing
53	Nathan Oliphant McMaster University	Reliability Of The Opencap System For Determining Knee Kinematics During Single And Double Leg Rebound Jumps
54	Dilaver Singh University of Waterloo	Comparing Global And Local Response Of The Lungs In Impact Human Body Models
55	Brendan Pinto University of Waterloo	Effects Of Trunk Posture On Lifting Strength
56	Danielle Carnegie University of Waterloo	Kinetic Adaptations To Restricting Spine Motion During Lifting
57	Sukirat Bhullar University of Waterloo	Shear Wave Elastography To Estimate The Mechanical Properties Of Soft Tissues

Poster Session B – Fed Hall Wed May 10 8:00P-9:00P		
1	Carl Alano Brock University	Automated Movement Screen: Developing A Data-Driven Scoring Tool To Assess Spine Motor Dysfunction
2	Katherine Athaide University of Guelph	Muscle Mechanics Associated With Vertebral Level
3	Maxwell Campbell Western University	The Sensitivity Of Bony Landmarks And The Scapholunate Interval To Wrist Malrotation In The Posteroanterior Radiograph
4	Ryuta Dharmaputra Ontario Tech University	Comparing Immersive Virtual Reality Systems For Ergonomics Assessments In Automotive Assembly Tasks
5	Heather Grandy University of Ottawa	Triple Jump Technique Assessment
6	Megan Hutter Western University	Developing Three-Dimensional Ultrasound For Blood Flow Assessment Of Thumb Osteoarthritis
7	Tamar Kritzer Brock University	Physical Demands In Helicopter Manufacturing
8	Larissa Madia Western University	The Role Of Transverse Plane Malalignment In Posterolateral Corner Complex Injury
9	Laura Marrelli University of Guelph	Skin Input, Rate Of Torque Development, And Fatigue
10	Alexis Napper Brock University	Physical Demands In Arborists
11	Luke Opilka Wilfrid Laurier University	Examining Hip Spine Syndrome
12	Eseoghene Orogun McMaster University	Smart Insole Validation For Assessing Foot Progression Angle
13	Kylie Paliani Western University	The Analysis Of Healthy Shoulder And Anatomic Implant Shoulder Glenohumeral Arthrokinematics
14	Noah Polesky Brock University	Forearm Muscle Activity During Eccentric Exercise
15	Xaysha Solomon Wilfrid Laurier University	Annulus Fibrosus Damage Following Disc Herniation
16	Jessica Wanyan Wilfrid Laurier University	Balance During Gait In Adult ADHD Population
17	Vanessa Yuan Brock University	Slips While Walking In Occupational Footwear
18	William Auray Ontario Tech University	The Effect Of Extended Reach On Manual Arm Strength And Hand Location Relative To The Shoulder
19	Joel Carriere University of Guelph	Wrist Kinematics Through Open Source Markerless Motion Capture
20	Hunter Carswell Nipissing University	Age-Related Changes In Spatiotemporal-Kinematic Relationships During Gait

21	Ryan Chhiba McMaster University	Hand Pressure Effects On Internal Loading
22	Sarah Fitzgerald Ontario Tech University	Exploring The Effects Of Mental Fatigue On Perceptual Motor Task Performance And Upper Limb Kinematics
23	Emma McArthur Nipissing University	Effects Of Age On Relationships Between Kinematics And Center Of Mass Motion During Gait
24	Livia Murray University of Waterloo	Short Time Fourier Transform For Gait Bout Detection In Free-Living Accelerometry
25	Gillian Phillips Queen's University	Effects Of Gait Variability On Adaptation To Ankle Exoskeletons
26	Elizabeth Zafar University of Waterloo	Role Of Low Back Capacity On Functional Movement
27	Rebecca Chan University of Toronto	Jump Type Effects On Lower Extremity EMG
28	Victor Chan University of Ottawa	EMG Wavelet And Complexity Analyses Of Fatigue
29	Benjamin Cornish University of Waterloo	Multiscale Entropy For Complex Lower Limb Accelerometry During Walking
30	Matheus Correia University of Waterloo	Optimized HBM Neck Activation In Lateral Impacts
31	Simon Friesen University of Waterloo	The Effect Of Hand Load Stability On The Recruitment Of Shoulder Stabilizing Musculature During Bench Press And Military Press V
32	Prasannaah Hadagali University of Waterloo	Effect of Rotary-Wing Aircrew Head-Supported Mass in Flexion Position on the Tissue-Level Response of the Neck: An FE Study
33	Dveeta Lal University of Toronto	Side To Side Diferences In Lower Extremity Fatigue
34	Jenna Pitman University of Guelph	Spatial Context Of Visual Information: Influence On Performance Of A Walking Turn
35	Emily Roberts University of Windsor	Head Impacts In Youth Hockey.
36	Julia Shannon University of Guelph	High Intensity Interval Training Vs Moderate Intensity Continuous Training In Parkinson's Disease
37	Kathryn Webster University of Waterloo	The Influence Of Swim Bench Rotation Settings On Upper Body Kinematics And Muscle Activity Patterns In Simulated Swimming
38	Mitchel Whittal Wilfrid Laurier University	Cyclic Tensile Loading And IL-1 β Stimulation
39	Prabhlín Aujla McMaster University	How Lumbar Spine Positioning Affects Clinical Diagnosis Of Osteoporosis And Dual-Energy X-Ray Absorptiometry Measures
40	Stefania DiLeo University of Toronto	Kinematic Outcomes After FAIS Treatment
41	Jason Hunter University of Waterloo	Subject-Specific Active Control Of A Stroke Rehabilitation Robot
42	Colin Dunne Brock University	Investigating Portable Instrumentation To Profile Kinematics And Plantar Pressure During On-Ice Starts
43	Fatima Gafoor McMaster University	Validation Of Physical Activity Levels From Shank-Placed Axivity Ax6 Accelerometers

44	Courtney Hlady University of Toronto	Hip Kinematics And Sport Specialization
45	Kate Krivenko University of Waterloo	Tablet And Computer Tasks Completed In Sitting And Standing
46	Jonah Leinwand University of Waterloo	A Novel Compliant Support Mechanism For Cervical Artificial Disc Replacement
47	Xinyi (Julia) Li University of Waterloo	Validation Of A 2D Video-Based Ergonomics Assessment Tool
48	Hailey Nestor University of Waterloo	Efficacy Of A Device To Reduce Neck Muscle EMG During NVG Use
49	Katarina Osojncki University of Guelph	Relationship Between Sleep And Physical Activity In Preschool-Aged Children Over 1-Year
50	Sasha Renton De Lannoy University of Toronto	Lower Extremity Emg Mapping
51	Meera Sayal Brock University	Cross Education And Robotic Rehabilitation
52	Samantha Segal University of Guelph	Intervertebral Disc Degeneration In Menopause
53	Juliana Bossom University of Waterloo	Effects Of Female Sex Hormones On Lumbar Spine And Hip Passive Stiffness
54	Lia Tennant University of Waterloo	Diurnal Variation In Axial Lumbar Impacts
55	Malinda Hapuarachchi University of Toronto	Characterizing Vertical Jump Kinetics In Field Hockey Canada Development Pathway Athletes
56	Jordan Hobson University of Waterloo	Panoramic Compared To Site-Specific B-Mode Ultrasound Over The Lateral Hip
57	Aleksander Rycman University of Waterloo	Strains In The Cervical Spinal Cord