FREE COMMUNICATIONS PROGRAM

Monday, July 13, 2020

Oral Presentations 10:30 a.m. – 11:30 a.m.

Sport Specialization, (I, II)

The Association Between High School Cutting Policy and School Size With Sport Specialization Status and Multisport Participation
Mayrena Hernandez, MPH, LAT, ATC, University of Wisconsin at Madison

Early Sport Specialization and Subjective Hip & Groin Dysfunction in Collegiate Ice Hockey Athletes
John Goetschius, PhD, ATC, Adrian College

Prior Sport Specialization is Associated With Lower Extremity Stress Fracture in Female Service Academy Cadets
Kenneth Cameron, PhD, MPH, ATC, John A. Feagin Jr. Sports Medicine Fellowship

Association Between Socioeconomic Status and Sport Specialization in High School Baseball Players
Elizabeth Hibberd, PhD, LAT, ATC, University of Alabama

A Dyadic Analysis of Parent’s Competitiveness and High School Athlete’s Sport Specialization
Dee Warmath, PhD, University of Georgia

Free Communications Awards Presentations, (II, IV, V)

Differences in Current Self-Reported Physical Activity Among Females With Varying Previous Sport Participation: A Report From the Active Women’s Health Initiative
Rachel Kleis, MS, LAT, ATC, University of Kentucky

Dry Cupping Therapy Improves Subcutaneous Hemodynamics and Pain Associated with Nonspecific Neck Pain
Stephanie Stephens, MS, University of Virginia

Limb Differences in Hamstring Muscle Function and Morphology 2-9 Years after Anterior Cruciate Ligament Reconstruction
Justin Rush, MS, ATC, University of Toledo

Gait Biofeedback and Impairment-based Rehabilitation for Chronic Ankle Instability: A Randomized Controlled Trial
Rachel Wolfe Koldenhoven, PhD, ATC, Texas State University

*All times are Central
Neural Correlates of Knee Extension Exercise and Single Leg Hop Performance following Attentionally Focused Neuromuscular Training
Randy Schmitz, PhD, ATC, University of North Carolina at Greensboro

**Tuesday, July 14, 2020**

**Rapid Fire Presentations, 9:00 a.m. – 10:00 a.m.**

**Social Determinants of Health in Athletic Healthcare, (I, II, V)**

*Socioeconomic Status Impacts Athletic Healthcare in U.S. Secondary Schools*
Robert Huggins, PhD, LAT, ATC,

*The Impact of Sociodemographic Factors on Baseline King Devick Performance in High School Athletes*
Jessica Wallace, PhD, LAT, ATC, University of Alabama

*The High School Athlete’s Concussion Reporting Motivation in a Socioecological Context*
Andrew Winterstein, PhD, ATC, ATC, University of Wisconsin at Madison

*The Relationship Between Athletic Trainers’ Perceptions of and Experiences With Social Determinants of Health*
Kelsey Picha, PhD, ATC, A.T. Still University

*Athletic Trainers’ Perceptions of and Experiences With Social Determinants of Health in the Secondary School Setting*
Rhianna Freiburger, MS, ATC, A.T. Still University

*Athletic Trainers’ Perceptions of and Experience with Social Determinants of Health in the Collegiate and University Setting*
Adrian Wright-FitzGerald, MS, ATC, A.T. Still University

*Athletic Trainers’ Perceptions of Social Determinants of Health*
Richelle Williams, PhD, ATC, Drake University

*The Presence of Emergency Equipment in Secondary Schools With Athletic Training Services by Employment Provider*
Erica Filep, MSEd, LAT, ATC, Korey Stringer Institute, University of Connecticut

**Oral Presentations, 11:00 a.m. – 12:00 p.m.**


*Athletic Trainers’ Behaviors Considering the Adoption of Environmental Heat Policies in the Secondary School Setting*
Samantha Scarneo-Miller, PhD, LAT, ATC, University of Connecticut

*Exertional Heat Stroke Policy Adoption Across the Socio-ecological Framework*
Amanda Kuczo, University of Connecticut

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Educational Factors, Facilitators and Barriers Associated With Implementation of the NATA-IATF Heat Acclimatization Guidelines
Aliza Nedimyer, MA, LAT, ATC, University of North Carolina at Chapel Hill

Emergency Medical Services Exertional Heat Stroke Protocols Across the U.S.
Michael Szymanski, MS, LAT, ATC, University of Connecticut

The Ability of a Web-Based Questionnaire to Accurately Evaluate Best Practice Adoption in Secondary Schools
Zachary Malone, ATC, University of Connecticut

American Football Uniforms Cause Failures on the Heat Tolerance Test
Ethan Launstein, Central Michigan University

**Oral Presentations, 2:30 p.m. – 3:30 p.m.**

Disablement and Quality of Life Among Athletes From Adolescents to Adults, (I, IV, V)
Nicholas Biello, MS, AT, Ohio University

Health Related Quality of Life in Adolescent Athletes Pre and Post and Musculoskeletal Injury
Janet Simon, PhD, AT, ATC, Ohio University

Measures of Quality of Life in Middle School Students Utilizing the PedsQL
Patricia Kelshaw, MS, LAT, ATC, George Mason University

Capturing the Patient Perspective at Return-to-Play Following an Ankle Sprain Injury: A Report from the Athletic Training Practice-Based Research Network
Ashley Marshall, PhD, ATC, Appalachian State University

Self-Perceived Lack of Recovery from Previous Injury Results in Lower Patient-Reported Outcome Scores and Increased Risk of Future Injury
Jennifer Tinsley, LAT, ATC, Appalachian State University

Disablement of the Physically Active in Former Division I Collegiate Athletes and Non-Collegiate Athletes
Mallory Lorence, MS, AT, Ohio University

Current Health-Related Quality of Life is Lower in Former Division I Collegiate Athletes than in Noncollegiate Athletes: A Five Year Follow-up
Janet Simon, PhD, AT, ATC, Ohio University

**Wednesday, July 15, 2020**

**Rapid Fire Presentations, 9:00 a.m. – 10:00 a.m.**

Adaptations in Overhead Athletes, (I, II)
Ohsana Valle, MS, LAT, ATC, LaSalle University

Long Term Effects of Pitching on Muscle Characteristics of the Scapular Stabilizers in Professional Baseball Players
Stephen Thomas, PhD, ATC, Temple University

Long-Term Effects of Pitching on Muscle Architecture of Posterior Rotator Cuff in Professional Pitchers
Stephen Thomas, PhD, ATC, Temple University

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Forearm Rotational Strength Characteristics Among Collegiate Baseball Players Using Hand-held Dynamometry
Jeffrey Williams, PhD, ATC, Franklin College

Relationship Between Shoulder Range of Motion, Strength and Posture and Injury Risk in Collegiate Baseball Athletes
Steven Tucker, PhD, ATC, University of Central Arkansas

Relationship Between Hip Range of Motion and Power Output in Collegiate Baseball Players
Madison Osbourne, High Point University

Influence of Elbow Stretch on Flexor Carpi Ulnaris Motor Neuron Pool Excitability in Healthy Males
Emily Loew, MS, ATC, University of Toledo

Plasma Concentration of Interleukin-10 and Interleukin-6 can Predict Pain at 48-Hours Following a Musculoskeletal Injury to the Shoulder External Rotator Muscles
Paul Borsa, PhD, ATC, University of Florida

Using A Pre-Season Movement Examination to Analyze Scapular Movement Patterns in NCAA Division I Swimmers
Oliver Silverson, MS, ATC, University of Minnesota

**Oral Presentations, 11:30 a.m. – 12:30 p.m.**

**Mental Health Considerations for Athletic Trainers and Their Patients, (I, II, IV)**

Examining ATC’s Perceptions of Their Role in Athlete’s Mental Health
Leah Poloskey, PhD, ATC, CSCS, Merrimack College

Factors Influencing Stress and DS Among Collegiate Student-Athletes
Kristina White, Baylor University

Psychosocial Characteristics of High-School Endurance Athletes Compared to Team Sport Athletes
Olivia May, LAT, ATC, OTC, Children’s Hospital Colorado

The Relationship Between Spiritual Well-Being and Burnout Among Collegiate Athletic Trainers
Leslie Oglesby, PhD, LAT, ATC, University of Southern Mississippi

Preparedness, Confidence and Best Practices in Preventing, Recognizing, Managing Routine and Crisis Mental Health Cases in NCAA Affiliated Institutions
Julia Young, ATC, Indiana State University

Mental Toughness, Anxiety and Depression Screening of Collegiate Athletes at Pre-Season, High-Stakes and Post-Season
Colleen Bohannan, MS, AT, ATC, University of Toledo

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Oral Presentations, 3:00 p.m. – 4:00 p.m.

Health Consequences Following Concussion
Association of Lower Extremity Non-Contact and Contact Injuries With Previous Concussion History in Adolescent Athletes
Kevin Biese, MA, ATC, University of Wisconsin at Madison

Additional Injuries When Football Athletes Sustain Sport-related Concussion: Findings from the Ivy League-Big Ten Epidemiology of Concussion Study
Douglas Wiebe, PhD, Perelman School of Medicine

Survey Responses and Self-Reported Concussion History Identify Persistent Concussion Effects on Musculoskeletal Injury among College Football Players
Marisa Colston, PhD, ATC, University of Tennessee at Chattanooga

Kinesiophobia is Unrelated to Acute Musculoskeletal Injury Incidence Post-Concussion
Xavier Thompson, ATC, University of Virginia

Serum S100B is Increased in Special Operations Forces Combat Soldiers With Mild Traumatic Brain Injury History
Jacob Powell, MS, ATC, University of North Carolina at Chapel Hill

A Prospective Study of the Impact of Concussions on Health Outcomes in High School Football Players
Timothy McGuine, PhD, ATC, University of Wisconsin

Thursday, July 16, 2020

Oral Presentations, 9:00 a.m. – 10:00 a.m.

Concussion Education and Decision Making, (I, II, IV, V)
The Experiences of Peer Educators Implementing a Novel Peer Concussion Education Program With Collegiate Student-Athletes
William Ernst, MA, LAT, Texas A&M International University

Development and Initial Testing of a Theory-Based Intervention to Improve Athletic Training Students’ Concussion-Related Decision-Making Intentions
Melissa Kay, PhD, LAT, ATC, University of Southern Mississippi

Compliance with State Law Components of Sport-Related Concussion Protocols in Pennsylvania High Schools
Erica Beidler, PhD, LAT, ATC, Duquesne University

Perceived Support for Return-to-Learn in Concussion Management by Secondary School Athletic Trainers and School Nurses
Anne Russ, PhD, LAT, ATC, Temple University

Analyzing Sideline Concussion Assessment Scores Across Time to Guide Return-to-Play After Concussion
Rachel Le, MS, ATC, University of Georgia

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Gender Differences in Discussions and Reporting about Concussions
Meredith Kneavel, PhD, La Salle University

On-Demand Rapid Fire Presentations

Athletic Training Clinical Education: Developing the Future Athletic Trainer, (V)
Role Ambiguity in Athletic Training Students Within the Clinical Setting
Maegan Daniels, EdD, LAT, ATC, James Madison University

Athletic Training Student Application of the Core Competencies During Clinical Education: A Report From the Athletic Training Clinical Education Network
Cailee Welch Bacon, PhD, ATC, A.T. Still University

The Influence of Student/Preceptor Gender Dyads on the Role of the Athletic Training Student During Clinical Experience: A Report from the Athletic Training Clinical Education Network
Julie Cavallario, PhD, ATC, Old Dominion University

Preceptor Perceptions of the Immersive Clinical Environment in Athletic Training Education
Cameron Eldred, LAT, ATC, Indiana State University

Self-Efficacy and Coping After an 18-Week Immersive Clinical Experience
Melissa Snyder, PhD, LAT, ATC, Western Carolina University

Athletic Training Student Patient Encounter Characteristics During Immersive and Non-Immersive Experiences: A Report from the Athletic Training Clinical Network
Bailey Jones, ATC, Old Dominion University

Characteristics of Patient Encounters for Professional Athletic Training Students: A Report From the Athletic Training Clinical Education Network
Bonnie Van Lunen, PhD, ATC, FNATA, Old Dominion University

Becoming an Athletic Trainer: Development of Newly Credentialed Athletic Trainers Through the Transition to Practice
Ashley Thrasher, EdD, LAT, ATC, Western Carolina University

Black Athletic Trainers’ Experiences Joining and Being Part of the Athletic Training Profession
Alexis Britford, ATC, Ohio University

Chronic Ankle Instability, (I, II, IV)
Associations of Diaphragm Contractility with Postural Control, Health-Related Quality of Life and Perceived Instability in a Chronic Ankle Instability Population
Masafumi Terada, PhD, ATC, Ritsumeikan University

Athletic Trainers’ Perception on Treating and Managing Ankle Sprains
Revay Corbett, PhD, ATC, PES, University of Virginia

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Effect of Ankle Braces on Dynamic Balance in Individuals With and Without Chronic Ankle Instability: A Systematic Review
Robert Reyburn, MS, Indiana State University

History of Ankle Sprain and Functional Instability in U.S. Officer and Enlisted Service Members at Entry to Secondary Training
Carolyn Dartt, MEd, ATC, Henry M. Jackson Foundation

Lateral Ankle Complex Hysteresis in Individuals With Chronic Ankle Instability
Cathleen Brown Crowell, PhD, ATC, Oregon State University

Over-Shoe Stabilization System Does Not Change Plantar Pressure Distribution in Patients with CAI
Abbey Thomas, PhD, ATC, University of North Carolina at Charlotte

Relationships Between Fear of Re-injury, Balance Self-Efficacy and Dynamic Balance Performance in Those with Chronic Ankle Instability
Ashley Suttmiller, MSEd, ATC, Old Dominion University

Sensory Contributions with Postural Control Constraints in Individuals With Unilateral Chronic Ankle Instability and Healthy Controls
Yuki Sugimoto, MS, LAT, ATC, University of North Carolina at Greensboro

The Role of Hip Strength Deficits on Dynamic Function in Those With Chronic Ankle Instability
Paige Clawson, ATC, University of Kentucky

Transversus Abdominis Muscle Contractility Deficits of Individuals With Chronic Ankle Instability
Ryan McCann, PhD, ATC, CSCS, Old Dominion University

Heads Up on the Latest Concussion Findings, (II)

Head Acceleration in Collegiate Divers
Tyler Wood, PhD, ATC, Northern Illinois University

Prevalence and Causative Factors of Improperly Fitted Helmets in Youth Football Leagues
Susan Yeargin, PhD, ATC, University of South Carolina

The Effects of the 2nd Skull Skullcap® to Attenuate Forces Resulting From Foul Ball Impacts Into Catchers Masks in Baseball.
Rebecca Neal, ATC, NREMT, Adrian College

Pediatric Cognitive and Balance Performance at 4-Weeks Post-Concussion Does Not Differ by 5P Risk Classification
Elizabeth Teel, PhD, McGill University

Arterial Pulse Waveform Characteristics in Recently Concussed Female Athletes with Orthostatic Hypotension
Ryan Caruth, Seton Hall University

Does Sensation Seeking Behavior Predict Collegiate Student-Athletes’ Concussion Care Seeking?
Michelle Weber Rawlins, PhD, ATC, A.T. Still University

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The Effects of Physical Exercise on Salivary microRNA Levels
Thomas Campbell, MS, LAT, ATC, Old Dominion University

Age of First Exposure Influences Neurovascular Coupling in High School Football Athletes
Patricia Roby, MEd, ATC, University of North Carolina at Chapel Hill

Secondary School Athletic Trainers' and School Nurses' Confidence in Assessment and Perceived Roles During Concussion Management
Jamie Mansell, PhD, LAT, ATC, Temple University

Lower Extremity Case Studies, (II, IV)

Pediatric ACL Reconstruction in a Skier
Erin Boggs, LAT, ATC, The Steadman Clinic

Osteochondral Lesion in A Football Player: Late Diagnosis
Marguerite Montjoy, MS, ATC, The Steadman Clinic

Osteochondral Defects of the Knee: Arthroscopic Treatment With Bone Marrow Aspirate Concentrate and Biocartilage
Jessica Collum, Seton Hall University

Traumatic Patellar Fracture in an Adolescent Football Player Following MPFL Reconstruction: A Case Study
Katherine Helly, LAT, ATC, University of Kentucky

ORIF With a Bone Graft for an Anterior Mid-Tibia Stress Fracture in a Collegiate Basketball Player: Level 4 Clinical Case Study
Kelly Lumpkin, PhD, LAT, ATC, Liberty University

Pain Management Options for Post-Traumatic Ankle Osteoarthritis: A Case Study
Miranda Kruse, MA, ATC, OTC, Vail Summit Orthopaedics & Neurosurgery

Iron Deficiency Anemia Induced Peripheral Neuropathy in an Adolescent Athlete: A Level 4 Rare Events CASE Study
Francesca Genoese, MS, LAT, ATC, Regis Jesuit High School

Management of an Absent Infrarenal Inferior Vena Cava in a Collegiate Dancer: A Case Report
Laurel Trail, ATC, University of Texas at Tyler

Surgical Treatment of 1st Metatarsophalangeal Joint Kissing Lesions: Return to Professional Ballet
Elizabeth Fioretti, MEd, LAT, ATC, The Steadman Clinic

Conservative Management of an Achilles Laceration in a Division I Collegiate Sprinter
Shane Fitzpatrick, ATC, CES, University of Illinois
Muscular and Neural Adaptations Related to Lateral Ankle or Knee Injury, (I, II, IV)

Novel Brain Mechanisms Regulating Anterior Cruciate Ligament Injury Risk Biomechanics Utilizing a Motion Analysis System Integrated with Functional Magnetic Resonance Imaging During Lower Extremity Movement
Jed Diekfuss, Cincinnati Childrens Hospital Medical Center

Y-Balance Test as a Predictor of Lower Extremity Injuries in Division I Collegiate Football Players
Tony Boucher, PhD, PT, ATC, Texas A&M University

Collegiate Soccer Athletes with a History of Recurrent Ankle Sprains Have Slower Visuomotor Reaction Time
Matthew Hoch, PhD, ATC, University of Kentucky

Neural Excitability of Fibularis Longus During Single-Leg Balance in Patients with Acute Lateral Ankle Sprain
Joosung Kim, MS, ATC, University of Miami

Gluteus Maximus Corticomotor Excitability of Individuals With Chronic Ankle Instability: A Pilot Study
Trevor Thompson, MSAT, ATC, New York Jets

Contralateral Sensorimotor Connectivity is Related to Postural Control in the Non-Involved Lower Extremity of Older Adults With a History of Lateral Ankle Sprain
Katherine Bain, ATC, University of Kentucky

Postural Control Deficits Indicate Inadequate Neural Adaptation in Anterior Cruciate Ligament Reconstruction Patients
Yangmi Kang, MS, ATC, New Mexico State University

Measurements of Postural Control Error Signal During the Y Balance Test™ in ACL Reconstructed Individuals
Meredith Decker, MS, ATC, LAT, The University of Texas at Arlington

Preclinical Model of ACL Injury Reveals the Acute Time Course of Mitochondrial Dysfunction in the Vastus Lateralis
Steven Davi, MS, University of Connecticut

Non-Operative Management of a Proximal Anterior Cruciate Ligament Avulsion in an Adolescent Volleyball Player: A Case Study
Bridget Walsh, ATC, University of Kentucky

Tactical Athletes, (I, II, IV)

Association of Heart Rate Variability with Measures of Cognitive-Motor Status Among ROTC Cadets
Ashley Grillo, University of Tennessee at Chattanooga

Association Between Symptom Burden at Initiation of a Graduated Return-to-Activity Protocol and Time to Return to Unrestricted Activity After Concussion in Service Academy Cadets
Michael Aderman, MS, ATC, U.S. Military Academy West Point

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**Effects of a Cognitive Load on Marksmanship Performance in ROTC Members**
Sean Buckley, MS, ATC, Nazareth College

**A Testing Battery’s Predictive Validity of Reporting an Injury During U.S. Army Basic Combat Training**
Amy Hand, PhD, SCAT, ATC, University of South Carolina

**Examination of Referral Patterns During Army Basic Combat Training**
Rebecca Hirschhorn, MS, ATC, NRAEMT, University of South Carolina

**Lower Extremity Loading Characteristics of Service Members With Transtibial Amputations During Drop-Landings from Varied Heights**
Timothy Mauntel, PhD, ATC, Walter Reed National Military Medical Center

**Benefits and Barriers Associated With Intention to Participate in an Exercise-Related Injury Prevention Program Within ROTC Cadets**
Emily Gabriel, PhD, ATC, Mercer University

**Ability of an Eye-Tracking Device for Detecting Concussion in Military Cadets: A Pilot Study**
Megan Houston, PhD, ATC, Keller Army Hospital

**Multivariate Rate of ImPACT Failure in Post-Concussion Recovery in NCAA Athletes and Military Academy Cadets**
Cynthia Marra, ATC, LAT, OTC, University of Florida

**Circadian Rhythm Chronotypes and Sleep Quantity Related to Injury in Reserve Officers’ Training Corps (ROTC) Cadets**
Kara Radzak, PhD, ATC, University of Nevada at Las Vegas

**Therapeutic Interventions, (II, IV)**

**Intramuscular Temperature of Rectus Femoris During and After Cold-Water Immersion: A Gender Comparison**
Youngwook Kim, MA, ATC, Utah State University

**Current Practices in Acute Musculoskeletal Injury Care: A National Survey of Athletic Trainers**
Tyler Beauregard, MS, ATC, Ohio State University

**The Effects of Tissue Flossing on Muscular Tenderness in Collegiate Baseball Players**
Brandon Warner, MEd, LAT, ATC, Grand Canyon University

**Dry-Needling of a Powerlifter With Cervicobrachial Pain Syndrome and Subscapular Nerve Impingement: A Level III Case Study**
Grace Mills, Liberty University

**Effectiveness of Talocrural and Fibular Mobilizations With Movement to Increase Ankle Joint Motion in Individuals With Chronic Ankle Instability**
Cynthia Wright, PhD, ATC, Whitworth University

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The Evaluation of Joint Mobilization Dosage on Measures of Motion in Individuals With Decreased Dorsiflexion and a History of an Ankle Sprain
Jennifer Meyer, LAT, ATC, Indiana State University

Conservative Management Improves Functional Movement and Clinical Outcomes in Patients with Nonarthritic Hip Pain
Ryan McGovern, PhD, LAT, ATC, Texas Health Sports Medicine

Effects of Blood Flow Restriction on Ratings of Perceived Exertion During Dynamic Balance Exercises in Individuals With Chronic Ankle Instability
Savannah Monette, MS, Adrian College

Analysis of Pronation in Recreational Runners Treated with Kinesio® Tape
Janell Burkart, ATC, NREMT, North Dakota State University

Changes of Ankle Dorsiflexion Using Compression Tissue Flossing: A Systematic Review
Devin Kielur, LAT, ATC, Indiana State University

On-Demand Oral Presentations

Clinician-Oriented Lower Extremity Assessment, (I, II, IV)
Lower Extremity Musculoskeletal Screening Tool Practices of Athletic Trainers in Collegiate and Secondary School Settings
Megan Fowler, DAT, ATC, Indiana State University

Laura Kehr, Southern Utah University

Intra-Session and Inter-Session Reliability of the Trunk and Hip Strength Measurements Using the Portable Tension Dynamometer
Edgar Garza, University of Texas at San Antonio

The Impact of a Theoretical Leg Length Discrepancy on Normalized Star Excursion Balance Test Reach Distance in Adolescent Patients With Chronic Ankle Instability
Mary Cain, PhD, ATC, University of North Carolina at Chapel Hill

The Relationship Between Human-Rated Errors and Tablet-Based Postural Sway During the Balance Error Scoring System in Military Cadets
Jeremy Ross, MEd, CSCS, University of Kentucky

Functional Balance Measures in Ballet Dancers With Varying Visual Input
Kelley Wiese, MS, LAT, ATC, Indiana University

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Jumping and Landing Biomechanics and Motor Control, (I, IV)
Kyoungyun Park-Braswell, MS, ATC, University of North Carolina at Greensboro

Dual Cognitive-Tactical Performance on Knee Kinematics and Kinetics
Gillian McCarren, ATC, Army West Point Athletic Association

Mental Fatigue Modifies Quadriceps Activation During an Unanticipated Jump Landing Task
Jasmine Cash, MS, Appalachian State University

Movement Control Differs With Age in Children
Emma Zuk, MS, ATC, University of Connecticut

Lower Extremity Joint Loading in Cartilage Health Following Injury, (II, IV)
Craig Garrison, PhD, PT, ATC, Texas Health Sports Medicine

Lower Extremity Joint Loading During Gait Changes From Three Months to Time of Return-to-Sport Following Anterior Cruciate Ligament Reconstruction (ACL-R)
Michelle Boling, PhD, LAT, ATC, University of North Florida

Comparison of Femoral Cartilage Health Between Individuals With and Without Patellofemoral Pain - Ultrasonographic Quality Analysis
Hyunjae Jeon, MS, ATC, University of North Carolina at Charlotte

Talar Cartilage Deformation Following Static Loading Associates With Mechanical and Sensorimotor Variables in Those With Chronic Ankle Instability
Erik Wikstrom, PhD, ATC, University of North Carolina at Chapel Hill

Ultrasonographic Assessment of Acute Talar Cartilage Deformation Following Static and Dynamic Loading in Those With and Without Chronic Ankle Instability
Kyeongtak Song, PhD, ATC, University of North Carolina at Chapel Hill

Auditory Feedback Improves Measures of Plantar Pressure During Functional Tasks in Individuals With Chronic Ankle Instability
Danielle Torp, MS, ATC, University of North Carolina at Charlotte

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Monitoring of Movement and Physical Activity, (I, II, IV)

The Association Between Self-Reported, Accelerometer and Heart Rate-Derived Training Loads in Collegiate Soccer Athletes
Daniel Aube, Highpoint University

Wearable Sensors Identify Interlimb Asymmetries During Return-to-Sport Tests in a Collegiate Downhill Skier After Unilateral ACL Reconstruction
Shane Murphy, PhD, LAT, ATC, University of Montana

Comparison of Free-Living Step Accumulation Among Adolescent Patients Six Months After ACL Reconstruction and Healthy Controls
Christopher Kuenze, PhD, ATC, Michigan State University

Individuals With ACL Reconstruction Spend Fewer Weekly Minutes in Moderate-to-Vigorous Intensity Step Accumulation Compared to Healthy Participants
Caroline Lisee, MEd, ATC, Michigan State University

Trail Running Surface Does Not Affect Vertical Tibial Acceleration
Micah Garcia, MS, University of Toledo

Influence of Sagittal Trunk Position on Lower Extremity Muscle Activation in Runners
Allison Frymier, MS, ATC, Eastern Michigan University

Neuromuscular Considerations Following ACL Injury, (II, IV)

Research Dominance Definitions May Not Identify Higher Risk Limb for Anterior Cruciate Ligament Injury
Paul Cacolice, PhD, LAT, ATC, Westfield State University

Systematic Review and Meta-Analysis of the Hamstrings Muscles in Individuals With ACL Reconstruction, Part I: Neuromuscular Function
David Sherman, PT, ATC, University of Toledo

Quadriceps Strength Characteristics Do Not Significantly Improve From 6- to 9-months After Anterior Cruciate Ligament Reconstruction
Thomas Birchmeier, MS, ATC, CSCS, Michigan State University

The Influence of Quadriceps Rate of Torque Development on Limb-Symmetry in Knee Moment During Double-Leg Jump Landings in ACL-Reconstructed and Healthy Females
Yu-Lun Huang, PhD, LAT, ATC, University of Wisconsin at Eau Claire

Associations Between Quadriceps Function and Changes in Gait Biomechanics Between Level and Downhill Walking Following Anterior Cruciate Ligament Reconstruction
Derek Dewig, MA, ATC, University of North Carolina at Chapel Hill

Multi-Joint Control Strategies Do Not Differ Between Limbs During Single-Leg Triple Hop Landing in ACL Reconstructed Females
Colin Mulligan, ATC, Oregon State University

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Optimizing Patient Care, (I, II, III, V)
Odds of Having Standing Orders by Employment Provider Type and Status in Secondary School Athletic Trainers
Ayami Yoshihara, MS, LAT, ATC, University of Connecticut

The Perception and Utilization of Student Aides in the Secondary School Athletic Training Setting
Andrea Kovalsky, MS, ATC, Athletico

The Effect of Lacrosse Equipment on Time to First Chest Compression and First Automated External Defibrillator Shock
Megan Murphy, Seton Hall University

Instructor Versus Feedback Manikin Assessment of CPR Skills
Emily Evans, EdD, ATC, University of Lynchburg

The Effect of Lacrosse Protective Equipment on Cardiopulmonary Resuscitation and Automated External Defibrillator Shock
Thomas Bowman, PhD, ATC, University of Lynchburg

Experiences of Athletic Training and Emergency Medical Service Students After Participating in an Interprofessional Mass Casualty Simulation
Kirk Armstrong, EdD, ATC, James Madison University

Psychological Considerations and Physical Function Following Knee Injury, (I, IV)
Kenneth Lam, ScD, ATC, A.T. Still University

Greater Helplessness and Lower Self-Efficacy are Associated With Deficits in Physical Function Across Recovery After ACLR
Julie Burland, PhD, ATC, CSCS, University of Connecticut

Do Patients With Depression or Anxiety Experience Greater Levels of Pain Catastrophizing Before and After ACL Reconstruction?
Megan Simon, MA, LAT, ATC, Emory University

Effects of Psychological Readiness on Biomechanics in Adolescent Athletes During Jump-Landing at Time of Return-to-Sports Following Anterior Cruciate Ligament Reconstruction
Shiho Goto, PhD, ATC, Texas Health Sports Medicine

Do Individuals with Patellofemoral Pain Exhibit Pain Sensitization?: A Meta-Analysis and Systematic Review
Kemery Sigmund, MS, AT, ATC, Concordia University at Wisconsin

The Relationship Between Injury-Related Fear and Physical Activity Levels in Patients with a History of Anterior Cruciate Ligament Reconstruction
Amy Barchek, LAT, ATC, University of Kentucky

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Sports Injury Epidemiology and Surveillance, (I, II, IV)

Epidemiology of Boys’ Club Lacrosse Injuries During the 2018 Summer Lacrosse Season
Ian McGinnis, MS, LAT, ATC, NXT Sports

Kellie Bliven, PhD, ATC, A.T. Still University

The Incidence of Injuries in Youth Mountain Bike Racing
Gregory Jancaitis, DAT, ATC, CSCS, Norwich University

Preparing for the Wildland Fire Season: Understanding Exercise and Injury History of Smokejumpers
Valerie Moody, PhD, LAT, ATC, University of Montana

Epidemiology of Dance-Related Injuries Presenting to Emergency Departments in the U.S., 2014-2018
Joshua Honrado, MS, ATC, CSCS, Harkness Center for Dance Injuries

Reported Symptom Type and Time to Symptom Resolution Among Football Athletes in the Ivy League-Big Ten Epidemiology of Concussion Study
Bernadette D’Alonzo, MPH, University of Pennsylvania

Poster Presentations

Assessment of Overhead Athletes, (I, II, III)
Assessment of Upper Extremity and Trunk Neuromuscular Control in Throwing Athletes
Drue Stapleton, PhD, ATC, CSCS, Rider University

Comparison of Arm Positions for Exercise of the Teres Minor Muscle During a Quadruped Position With Horizontal Abduction
Masaaki Tsuruike, PhD, ATC, San Jose State University

Concurrent Validity of an Electronic Version of the Kerlan-Jobe Orthopedic Clinic Overhead Athlete Shoulder and Elbow Score in Overhead College Athletes
Dan Tarara, EdD, ATC, LAT, High Point University

Determination of Kerlan-Jobe Orthopedic Clinic Scores in Competitive Tennis Players
Alexis Walker, LAT, ATC, Lee Health-Lee School District

Inter-Rater Reliability of a Novel Movement Assessment Performed on Overhead Throwing Athletes
Richard Boergers, PhD, ATC, Seton Hall University

Muscle Strength of Scapular Stabilizers in College Baseball Players With and Without a History of UCL Injury
Andy Waldhelm, PhD, PT, ATC, University of South Alabama

Relationship of a Novel Movement Assessment and Athletic Performance Tests in Softball Athletes
Johnny Rodriguez, ATC, CFSC, Union High School

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Upper Extremity Muscle Activation and Perceived Fatigue During Simulated Baseball Game Pitching
Katsumi Takeno, MS, ATC, University of Toledo

**Balance, (I, II, IV)**
Abductor Hallucis Fatigue Influences Dynamic Balance Depending on Foot Type
Leif Madsen, PhD, ATC, Indiana University

Change in Baseline BESS Performance Among High School Athletes Following Sport-Related Concussion
Erin Baker, LAT, ATC, New Hampshire Musculoskeletal Institute

Relationships Between Direction-Specific Center of Pressure Outcomes and Lower Extremity Injury History in D-I Athletes
Stephen Glass, PhD, Radford University

The Effect of the TayCo External Ankle Brace on Dynamic Balance, Motion and Performance in Collegiate Athletes
Steven Smith, DAT, AT, ATC, University of Michigan

The Evidence for the Use of External Support to Control Subtalar Motion is Strong, but Outdated. A Systematic Review with Meta-Analysis
Jennifer Medina McKeon, PhD, ATC, CSCS, Ithaca College

The Investigation of Static and Dynamic Balance Among Levels of Joint Mobility
Lauren Cox, DAT, ATC, Indiana State University

Visual Reweighting Using Stroboscopic Vision in Healthy Individuals
Jaeho Jang, MA, ATC, University of North Carolina at Chapel Hill

**Concussion Assessments and Insights from Stakeholders, (I, II, V)**
Assessing Influencers of Perceived School-Level Concussion Care and Support Among Collegiate Student-Athletes
Christine Callahan, MS, University of North Carolina at Chapel Hill

Associations Between Contact/Collision Sport Participation and Key Concussion Care-Seeking Behaviors Among First-Year Collegiate Student-Athletes: The BANK Study
Johna Register-Mihalik, PhD, LAT, ATC, University of North Carolina at Chapel Hill

Concussion Care Process Model Decreases Head CT Orders Among Providers in a Primary Care Setting
Joshua Owen, MHS, LAT, ATC, Mission Hospital

Development of Vasovagal Syncope Following Sport Related Concussions in Collegiate Volleyball Player: Level Four Case Study
Rock Lee, University of Central Arkansas

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Emergency Medical Technicians’ Beliefs and Knowledge on Impact Related Concussions and Athletic Trainers’ Duties
Stephanie Keator, University of Lynchburg

Exploring the Relationship Between Premorbid Depression or Anxiety and Baseline King-Devick Performance
Danae Delfin, ATC, CSCS, CES, University of Alabama

Factors Influencing Energy Expenditure and Energy Balance in Acute Sport Concussion
Samuel Walton, PhD, LAT, ATC, University of North Carolina at Chapel Hill

Identifying Effects of Concussion on Behavioral and Hemodynamic Changes Using Functional Near-Infrared Spectroscopy
Allyssa Memmini, MS, ATC, University of Michigan

Intentions for Stakeholders to Intervene Following a Suspected Concussion in Collegiate-Sport Athletes
Melissa Anderson, MS, University of Georgia

Long-Term Test-Retest Reliability of the BESS Test Using C3 Logix Platform in High School Athletes
Melissa Hango, ATC, New Hampshire Musculoskeletal Institute

Parents’ Emotions and Perception of the Long-Term Implications of Concussion in Youth Sport
Sara Brenner, Duquesne University

Prefrontal Cortex Activation During Neurocognitive Test Using Functional Near-Infrared Spectroscopy (fNIRS) in Division-I Athletes Following Sports-Related Concussion
Hyung Rock Lee, PhD, LAT, ATC, University of Central Arkansas

Pupillary Responses Indicate Neurocognitive Processing Differences in Working Memory Following Concussion
Christina Vander Vegt, MS, LAT, ATC, University of North Carolina at Chapel Hill

Whole-Body Reactive Agility Testing Reveals Modifiable Impairments Among Elite Athletes With Self-Reported History of Sport-Related Concussion
Tyler Perry, MS, University of Tennessee at Chattanooga

Comparison of HRQL Across Recovery Following Sport-Related Concussion or Acute Ankle Injury: A Report From the Athletic-Training Practice-Based Research Network
Justin DiSanti, PhD, A.T. Still University

Concussion History is Associated with Elevated Physical and Psychological Symptomology in Former Collegiate Football Players
Avinash Chandran, PhD, University of North Carolina at Chapel Hill

Effects of Concussion History on Baseline Balance and Vestibular/Ocular Motor Assessment
Haleigh Gray, ATC, University of Alabama

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Interleukin-6 Concentrations are Not Affected by Concussion History, Lifetime Incidence, or Recency in Special Operations Forces Combat Soldiers
Jamie DeCicco, University of North Carolina at Chapel Hill

Sport-Related Concussion Recovery Trajectories Among Men’s and Women’s Collegiate Sports
Abigail Bretzin, PhD, ATC, University of Pennsylvania

The Effect of Sex on Length of Recovery from Sport Concussion in Collegiate Athletes
Holly Carrington, University of Virginia

Dance, Band and Performing Arts, (I)

Body Composition Measures and Injury Rates Within Collegiate Acrobatics and Tumbling Athletes
Ashlyne Vineyard, MAT, LAT, ATC, Baylor University

Collegiate Dancers’ Aerobic Fitness Remains Similar Across their Collegiate Careers
Victoria Fauntroy, ATC, George Mason University

Examination of Eating Disorder Risk Among University Marching Band Artists
Nancy Uriegas, MS, SCAT, ATC, University of South Carolina

Self-Reported Injury History and Health-Related Quality of Life in Competitive, Collegiate Baton Twirlers
Breanna Dufour, ATC, Halifax County High School, Rehab Associates of Central VA

Upper Body Strength-Endurance and Power Norms in Healthy Collegiate Dancers: A 10-year Prospective Study
Sarah Coogan, MS, ATC, VATL, George Mason University

Impact of Turnout Variance on Static Balance in Collegiate Classical Ballet Dancers
Marissa Ramos, MS, LAT, ATC, Indiana University

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Athletic Training Perceptions of Community Service and Civic Engagement Following a Service-Learning Experience
Kelli Snyder, EdD, ATC, University of Northern Iowa

Developing, Validating and Establishing Reliability of a Standardized Patient Evaluation Tool to Measure Healthcare Core Competency
Lindsey Eberman, PhD, ATC, Indiana State University

Educator and Preceptor Roles in Athletic Training Student Development
Gary Cohen, ATC, Old Dominion University

Perceived Stress and Coping Skills in Professional Master’s Level Athletic Training Students
Emily Madrak, MS, ATC, LAT, Oklahoma State University

Practice-Based Research Experiences of Doctor of Athletic Training Degree Graduates
Matthew Rivera, DAT, LAT, ATC, Indiana State University

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Preceptors’ Leadership Behavior Frequency Changes With Years of Experience
Brandy Clemmer, EdD, LAT, Wingate University

Recruiting and Retaining Racially Minoritized Students into Professional Post-Baccalaureate Athletic Training Programs
Kimberly White, MA, LAT, ATC, Indiana State University

Standardized Patient Encounters Impact Teaching Pedagogy and Programmatic Improvements
Jamie Frye, PhD, LAT, ATC, James Madison University

Emerging Modalities, (I, III, IV)
A Systematic Dry Needling Treatment Supports Recovery Post-Training for Division I Ice Hockey Athletes: Level 2 Exploration Case Series
Brian Brewster, MAT, AT, ATC, A.T. Still University

Intramuscular Heating Rates of a Chattanooga Intelect Legend XT® Therapeutic Ultrasound with a 3 MHz Frequency and 1.0 W/cm² Intensity at Three Depths up to 2.5 cm.
Meghan Smith, ATC, North Dakota State University

Practical Blood Flow Restriction Rehabilitation in Patients With Acute Musculoskeletal Injury: A Case Series
Destiny Lalaguna, Montana State University at Billings

The Effects of Blood Flow Restriction Training on Upper Body Strength of Collegiate Softball Athletes
Stephen Cage, MEd, ATC, LAT, University of Texas at Tyler

Treatment of a Collegiate Soccer Player Following Multi-Compartment Fasciotomies With Dry Needling: A Case Report
Diana Gallegos, ATC, University of Texas at Tyler

Environmental Stressors, (I, III)
Effect of Forearm Ice Towels on Cooling Rates Following Exercise-Induced Hyperthermia
William Adams, PhD, ATC, University of North Carolina at Greensboro

Influence of Physical Characteristics on Thermoregulation and Predicted Heat Safety in Runners
Rachel Katch, MS, LAT, ATC, University of Connecticut

Hydration and Physiological Measures of Heat Stress in High School Football Preseason Practice in the Heat
Rebecca Lopez, PhD, LAT, ATC, University of South Florida

Heat Tolerance Test Results Following A Runners First and Second Exertional Heat Stroke Episodes
Rebecca Stearns, PhD, ATC, University of Connecticut

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Gait, (II, IV)
Altered Lower Extremity Biomechanics Exhibited in Walking, Not Running Following Anterior Cruciate Ligament Reconstruction
Katherine Collins, MS, Michigan State University

Hamstrings-to-Quadriceps Strength Imbalance Associates With Coactivation During Walking Gait in Healthy Females
Grant Norte, PhD, ATC, CSCS, University of Toledo

Longitudinal Changes in Tandem Gait in Healthy Football Players During Single and Dual Task
Tonya Parker, PhD, AT, ATC, Grand Valley State University

General Medicine, Trunk, Head and Face, (I, II, III, IV)
Apophysitis of the Left Anterior Superior Iliac Spine in High School Golf Athlete
Andre Figueroa, Florida International University

Assessing the Readability of Metered-Dose Inhaler and Epinephrine Auto-Injector Pinterest Pins: A Content Analysis
Elizabeth Holmes, Saginaw Valley State University

Atypical Presentation of a Coccyx Dislocation in a High School Football Player
Quentin Archuleta, ATC, Marshall University

Evaluation and Treatment of a Closed Temporal Fracture With Subsequent Hearing Loss in a Division II Collegiate Baseball Player
Anne McGrath, University of South Florida

Incarcerated Umbilical Hernia in a Female Volleyball Athlete
Marissa Sciabarra, LAT, ATC, Virginia Military Institute

Management of Collegiate Volleyball Player With Functional Scoliosis Caused by Leg Length Discrepancy: A Case Report
Marc Eilers, MS, ATC, Grand Canyon University

Management Of Lumbar Disc Herniation In A Division I Women’s Basketball Player With Congenital Conjoined L5-S1 Nerve Roots-Level 4 Clinical Case Report
Claudia Simpson, Georgia Southern University

Nicotine Overdose in a High School Football Athlete
Levi Roberts, ATC, Marshall University

Pulmonary Contusion and Enlarged Spleen in a Collegiate Football Player
Kyle Daly, Kean University

Pulmonary Emboli in a Collegiate Male Basketball Player: A Chronic Occurrence
Marae Watkins, MS, LAT, ATC, Southern Arkansas University

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Retinal Neovascularization in Collegiate Football Player: Level 4 Case Study
Courtney Miller, MS, LAT, ATC, Jacksonville University

Right Lower Quadrant Pain in a Women’s Soccer Player
John Mosier, Ithaca College

Septic Bursitis in Competitive Cyclists: A Case Series
Adam Thompson, PhD, LAT, ATC, Indiana Wesleyan University

Vocal Cord Dysfunction in Women’s Soccer
James Keddy, Kean University

Orbital Blowout and Maxillary Sinus Fractures With Nerve Entrapment in a Semi-Professional Soccer Goalkeeper – Level 4 Clinical Case Report
Sarah O’Connor, Georgia Southern University

Chronic Idiopathic Urticaria and Angioedema in a Division I Long Jumper
Haley Holz, ATC, University of Illinois

Lyme Disease in a Women’s Basketball Athlete
Karli Dill, MA, ATC, Emory University

Return-to-Sport Following Bowel Perforation in a High School Athlete
Maureen Burke, MS, LAT, ATC, Coordinated Health-Dunmore High School

Injury Epidemiology, (I, II, IV, V)
Demographic Characteristics and Their Association with Instantaneous Lower Extremity Injury Risk in a Division I Athletic Population
Jennifer Hogg, PhD, ATC, University of Tennessee at Chattanooga

Exploring Time between Primary and Subsequent ACL Reconstructions: A Preliminary Analysis
Brooke Torres, ATC, Emory University

Patient, Injury and Treatment Characteristics of Hip Injuries Presenting to Athletic Training Clinics: A Report From the Athletic Training Practice-Based Research Network
Lusmer Quintana, ATC, A.T. Still University

Lower Extremity, (I, II, III, IV)
Utilization of the Landing Error Scoring System-Real Time (LESS-RT) to Detect Kinematic Changes Following Three Different Functional Exercise-Induced Muscle Damage Protocols
Justin Goins, PhD, ATC, CSCS, University of South Carolina

A Non-Contact Femur Fracture in a High School Football Player: A Case Study
Victoria Hunt, Texas A&M University

A Unique ACL Tibial Avulsion Without Bony Fragment in an Adolescent Football Player
Chelsea Richardson, ATC, OTC, Emory Healthcare

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Cellulitis in Women’s Soccer Preseason  
Gabrielle Gonzalez, Kean University

Conservative Treatment of a Fibular Torus Fracture in a Collegiate Football Player  
Jaclyn Ouellette, Florida International University

Cyclops Lesion Accompanied by Pigmented Villonodular Synovitis in a Collegiate Baseball Athlete  
Scott Freer, PhD, LAT, ATC, Barry University

Gluteal Activation and Discomfort During the Superimposed Burst Technique Between Healthy Males and Females  
Neal Glaviano, PhD, ATC, University of Toledo

Iliac Crest Apophysitis in a Female Collegiate Distance Runner  
Nicolas Merritt, DAT, ATC, Furman University

Leg Pain in a High School Athlete  
David Jacobs, ATC, University of Kentucky

Minimally Depressed Fracture Involving the Anterolateral Margin of the Lateral Tibial Plateau with Marrow Edema in a High School Football Player  
Teresse Rehwoldt, Florida International University

Multiligament Knee Injury with Capsular Avulsion in a Collegiate Football Player  
James Galdieri, MS, LAT, ATC, East Stroudsburg University

Mysterious Presentation of Mid-Shaft Femoral Fracture  
Emily Malinak, Boston University

Non-Contact Femoral-Tibial Dislocation With Peroneal Nerve Palsy in a High School Football Linebacker  
Mason Briles, MS, LAT, ATC, Emory Healthcare

Non-Contact Total Knee Dislocation of the Posterolateral Corner in a College Football Player  
Kayli Rudd, Florida International University

Non-Operative Treatment of an Unstable Acetabulum Fracture in a Collegiate Football Player: A Case Report  
Cody Oliver, LAT, ATC, University of Texas at Tyler

Non-Surgical Treatment for Medial Ankle Sprain with Avulsion Fracture  
Mark Perez, Florida International University

Post-Surgical Complications Following Hip Labral Tear Repair in Professional Hockey Player: A Level 4 Clinical Case Report  
McKenzie Makar, LAT, ATC, Old Dominion University

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The Development of Achilles Tendinopathy and Medial Tibial Stress Syndrome in Two Runners During an Experimental Transition to Maximal Running Shoes
Andrew Traut, MS, ATC, CSCS, Oregon State University

Tibial Tubercle Avulsion Fracture in Two Different High School Athletes
Jenne DeAngelis, ATC, University of Kentucky

Torque Complexity of Maximal Knee Extensor Isometric Contraction in Individuals Following ACL Reconstruction
Stephan Bodkin, MEd, ATC, University of Virginia

Traumatic Intramuscular Hematoma of the Vastus Medialis Oblique and Vastus Intermedius in a High School Softball Player
Lauryn Lanzer, LAT, ATC, University of Kentucky

Two-Stage Revision Anterior Cruciate Ligament Reconstruction in a Professional Football Player
Ricardo Squillantini, MSAT, ATC, OTC, The Steadman Clinic

Current Dynamic Warm-Up Practices in Secondary Schools
Lauren Sheldon, MS, ATC, University of Connecticut

Individuals With Previous Exposure to Injury Prevention Programs Have More Positive Attitudes Towards Participating in Injury Prevention Programs than Those With No Previous Exposure
Elisha Scott, Mercer University

Influence of Rating of Perceived Exertion on Collegiate Cross-Country Athletes’ Running Biomechanics
Alexandra DeJong, MEd, ATC, University of Virginia

Neuromuscular Characteristics Are Altered in Female Soccer Athletes Following 9-Weeks of Elevated Training Load
Elena D’Argenio, ATC, University of North Carolina at Chapel Hill

Preventive Training Programs Implemented During a Non-Traditional Season Provide Retention of Motor Control Improvements in Collegiate Soccer Athletes
Eleanor Beltz, PhD, ATC, CSCS, Emory & Henry College School of Health Sciences

Sprinters Report Poorer MTSS Outcomes Compared to Endurance Runners over the Course of a Competitive Track Season
Leah Balsamo, MS, LAT, ATC, West Chester University

The Relationship Between Lower Extremity Strength and Drive Leg Rate of Force Development in Softball Pitchers
Erin Pletcher, PhD, ATC, CSCS, Rowan University

Toe Out Angle During Squatting is Associated With Lower Extremity Structural Alignment
Jeremiah Tate, PhD, East Tennessee State University

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Management of a Proximal Femoral Stress Reaction Utilizing Incremental Running and Cyclical Bone Strengthening in a DI Track and Field and Cross Country Athlete
Jackson Brunner, LAT, ATC, University of Illinois

Sex Differences and Hip Muscle Strength After ACL-Reconstruction
Amelia Bruce, MS, University of Virginia

The Effects of Virtual Reality Immersion on Drop Landing Biomechanics
Philip Brazalovich, MS, LAT, ATC, Memorial Hospital of Union County

Anticipation of Jump Task Impacts Lower Extremity Biomechanics During A Jump-Cut Maneuver
Zachary Ripic, MS, University of Miami

Mental Fatigue Impacts Ankle Joint Biomechanics During Anticipated and Unanticipated Jump-Stop Manuevers
Elisa Godoy, MS, Appalachian State University

The Effect of Anterior Cruciate Ligament Reconstruction on Circulating Biomarkers of Muscle Hypertrophy and Atrophy
Jae Hui Park, PhD, LAT, ATC, Inha University

Neither Sensory Nor Motor Threshold Transcutaneous Electrical Nerve Stimulation Alters Proprioception After Exercise-Induced Muscle Damage
Alan Needle, PhD, ATC, CSCS, Appalachian State University

Dis-inhibitory Interventions for Chronic Ankle Instability: A Systematic Review and Meta-Analysis
Kyung-Min Kim, PhD, LAT, ATC, University of Miami

Perceptions and Psychological Behavior, (I, IV)
A Comparison of Hardiness Between Athletes and Non-Athletes in a Collegiate Setting
Leah Kilchrist, LAT, ATC, MSAT, Texas State University

Effectiveness of In Vivo Exposure Therapy on Decreasing Injury-Related Fear in Patients Post ACL Reconstruction: An Exploratory Study
Shelby Baez, PhD, ATC, Michigan State University

Perceptions and Beliefs on Preventative Training Programs Amongst Female Collegiate Gymnasts
Ja’Naya Alexander, MS, LAT, ATC, Thomas Jefferson University

Physical Activity and Quality of Life in Women With Current Injury: A Report From the Active Women’s Health Initiative
Johanna Hoch, PhD, ATC, University of Kentucky

Sexual Behaviors of Collegiate Student-Athletes
Amanda Flanscha, SCAT, ATC, University of South Carolina
Differences in Perceived Sport Demands and Sport Specialization During High School Athletics in Male and Female Athletes
Amanda Fenton, University of Wisconsin at Madison

Professional Practice, (I, II, III, IV, V)
Brianne Kilbourne, EdD, ATC, Emory & Henry College

Assessing Healthcare Professional’ Knowledge of the Female Athlete Triad: A Pilot Study
Allison Smith, MS, SCAT, ATC, University of South Carolina

Assessment of Leadership Education Through Graduates of Doctorate in Athletic Training Programs
Elena Robinson, LAT, ATC, Indiana State University

Association Between Work Activities and Situations and Work-Related Injuries and Symptoms Among Athletic Trainers
Kristen Kucera, PhD, LAT, ATC, University of North Carolina at Chapel Hill

Athletic Trainer Services by Locale and Employment Provider in the Secondary School Setting: The Athletic Training Locations and Services Project 2019 Update
Kelly Coleman, MS, ATC, University of Connecticut

Athletic Trainers’ Attitudes, Beliefs and Use of Patient-Reported Outcome Measures Vary by Educational Background
Jennifer Howard, PhD, LAT, ATC, Appalachian State University

Athletic Trainers’ Perceptions of Accessibility to Healthcare Delivery Resources for Those Working Per Diem Services
Ellis Mair, ATC, Indiana State University

Athletic Trainers’ Perceptions of Accessibility to Informatics Resources for Those Working Per Diem Services
Tara Armstrong, ATC, Indiana State University

Athletic Trainers’ Perceptions of Accessibility to Legal Resources for Those Working Per Diem Services
Alisha Pennington, MS, ATC, The ATvantage

Athletic Training and Wildland Fire: Providing Athletic Training Services to Smokejumpers
Isabella Callis, MS, LAT, ATC, Missoula Bone and Joint

Auditing Medical Documentation: A Quality Improvement Project
Elizabeth Neil, PhD, ATC, Xavier University

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Body Composition and Iron-Related Biomarkers are Influenced by Years of Cross-Country Collegiate Participation
Danielle McCormick, Weber State University

Clinical Utility of Mental Toughness Measures: A Systematic Review of Measurement Properties
James Farnsworth, PhD, LAT, ATC, Texas State University

Delegation of Medical Authority from Supervising Physicians to Athletic Trainers in Texas
Kristen Sims-Koenig, ATC, Christus Trinity Mother Frances

Educators’ Perceptions of Student Competence in Athletic Training Education: A Report from the Athletic Training Clinical Education Network
Alicia Lacy, PhD, ATC, A.T. Still University

Emotional Intelligence Among Athletic Trainers
Ashley Harris, PhD, ATC, CSCS, Aurora University

Examination of Energy Needs and Dietary Prolifer Among Male and Female Athletic Trainers
Kacey Ohlemeyer, SCAT, ATC, University of South Carolina

Incoming Cadets Perception of Athletic Training
Kristin Cunningham, Tarleton State University

Indian Secondary School Athletic Directors Perceptions of Athletic Training Services and Influences on Hiring Athletic Trainers
Thomas Greffly, LAT, ATC, Indiana State University

Investigating the Relationship Between Self-Efficacy and Cardiopulmonary Resuscitation Quality in Certified Athletic Trainers
Lucas Lammert, LAT, ATC, NREMT, North Dakota State University at Fargo

Knowledge and Perception of Cannabis Amongst Health Care Students
Anne Skjoldahl, Florida International University

Perceived Leadership Self-Efficacy in Athletic Trainers
Matthew Drescher, LAT, Indiana State University

Routine and Crisis Mental Health Policy Reviews in NCAA Affiliated Institutions
Kelcey Granger, MS, Indiana State University

The Collegiate Student-Athletes’ View of Patient-Centered Care in Athletic Training Services
Ansley Redinger, LAT, ATC, Indiana State University

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Work-Family Conflict Among Athletic Trainers Who are Parents in the Collegiate and Secondary School Settings
Kelsey Rynkiewicz, MS, NREMT, ATC, University of Connecticut

Work-Family Conflict Experienced by Collegiate Certified Strength and Conditioning Specialists
Taylor Hoekwater, ATC, EMTB, Central Michigan University

Investigation of Athletic Trainers Self-Reported Uses of Electronic Medical Records Systems in the Collegiate Settings
Kendall Dennison, ATC, Indiana State University

**Reaction Time-Decision Making, (I, II)**

Association of Visual-Cognitive-Motor Integration With Core and Lower Extremity Injury in College Football
Katherine Rogers, MS, ATC

**Clinical vs. Functional Reaction Time Assessments Under a Dual-Task Paradigm: Implications for Post-Concussion Management**
Landon Lempke, MEd, ATC, University of Georgia

The Reliability of an Upper-Extremity and Lower-Extremity Visuomotor Reaction Time Task
Caitlin Brinkman, ATC, University of Kentucky

The Role of Task Demands on Decision Making in Dynamic Environments
Jeromy Alt, MS, ATC, University of Cincinnati

**Upper Extremity Case Studies, (II, IV)**

Carpometacarpal Joint Fusion for Severe Post-Traumatic Arthrosis in a Professional Football Player
Haley Simmons, MS, LAT, ATC, The Steadman Clinic

Chronic Inflammatory Demyelinating Polyradiculoneuropathy in a Division II Baseball Pitcher
Bryce Lawson, MS, ATC, CSCS, Phoebe Putney Memorial Hospital

Chronic Type IV Acromioclavicular Joint Separation in a 25-Year-Old Recreational Ski Athlete
Emma Young, LAT, ATC, The Steadman Clinic

Clinical Case Study: Ulnar Nerve Injury at the Wrist with Isolated Motor Symptoms
Michael Donohue, ATC, OTC, Vail-Summit Orthopaedics and Neurosurgery

Conservative Treatment of Inferior Labral Tear, Chondral Defect and Non-Displaced Clavicular Fracture Following a Traumatic Shoulder Dislocation: A Case Report
Lauren Simard, University of South Florida

Isolated Intramuscular Tear of the Triceps Medial Head in a Collegiate Football Athlete
Kevin Rojas, Florida International University

Isolated Scapular Body Fracture in a High School Football Player
Robert Casmus, LAT, ATC, Novant Health Sports Medicine

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Parsonage-Turner Syndrome in a Female Collegiate Track Athlete
Kelly Bachmann, Capital University

Return-to-Professional Football Following Latarjet
Natalie Reynolds, ATC, CSCS, The Steadman Clinic

Scaphoid Lunate Advanced Collapse Wrist in a Collegiate Rugby Player
Debbie-Ann Garricks, Florida International University

Traumatic Thoracic Injury in a Ninja/Parkour Athlete: A Level 4 Rare Events Case Study
Ann Francis, Western Carolina University

Blood Biomarkers for Bone Remodeling are Expressed Differently Between Collegiate Cross-Country Athletes With and Without a History of Lower Extremity Stress Fracture
Ryosuke Sakai, Weber State University

Vitamin D3 Supplementation May Spare Bone Mineral Density In Athletes During Periods of Intense Training
Jeffrey Parr, PhD, LAT, ATC, University of Southern Mississippi

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