



## 2017 Free Communication Program

### TUESDAY, JUNE 27, 2017

#### **Free Communication Oral Presentations, 8:00am -9:00am**

##### **Master's Oral Student Award Finalists**

Moderator: Sandra Shultz, PhD, ATC, FNATA, University of North Carolina at Greensboro  
GRBCC, Room 361

8:00am - 8:15am

Short-Term Ankle Immobilization Does Not Alter Nervous System Excitability in Uninjured Individuals  
Alyssa Stirling, MS, ATC, Appalachian State University

8:15am - 8:30am

Epidemiology of Secondary School Boys' and Girls' Basketball Injuries: A Report From the National Athletic Treatment, Injury and Outcomes Network  
Alex Allen, AT, A.T. Still University

8:30am - 8:45am

The Epidemiological Study of Post-Traumatic Ankle Osteoarthritis After Ankle Sprain in the Middle-Aged People Using National Health Insurance Sharing Service 450,000 Cohort Data: Prospective Design  
So Young Lee, BS, CSCS, Yonsei University

8:45am - 9:00am

Implementation of Automated External Defibrillator Policies in Secondary School Athletics  
Andres Almeraya, ATC, University of Connecticut

#### **Free Communication RapidFire Presentations, 8:00am - 9:00am**

##### **Vision & Balance: Implications for Injury Prevention and Management**

GRBCC, Room 371

Relationship Between Ankle Dorsiflexion Range of Motion and Dynamic Postural Control  
Karlee Burns, ATC, California State University at Long Beach

The Existence of Differences in Static and Dynamic Postural Construct Between Korean Male and Female  
Yongmin Chun, MS, CSCS, Yonsei University

Sensory Contributions To Balance In Student Athletes With And Without A History Of Chronic Lower Extremity Injury

Yuki Sugimoto, MS, LAT, ATC, University of North Carolina at Greensboro

Visuomotor Training for Injury Risk Reduction Among College Football Players  
Whitley Williams, MS, ATC, University of Tennessee at Chattanooga

No Changes in Y-Balance Test Performance Following a Competitive Field Hockey Season  
Lauren Welsch, MS, ATC, Old Dominion University

Effectiveness of Balance Training and Strength Training Protocols to Improve Strength and Patient-Reported Outcomes  
Emily Hall, PhD, LAT, ATC, University of South Florida

Lower Extremity Strength, Functional Performance and Limb Symmetry Among Healthy Subjects  
Caroline Lisee, MEd, ATC, University of Virginia

**Free Communication Oral Presentations, 9:15am - 10:15am**

**Doctoral Oral Student Award Finalist**

Moderator: Randy Schmitz, PhD, ATC, University of North Carolina at Greensboro  
GRBCC, Room 361

9:15am - 9:30am

Acute Naproxen Dose on Hydration and Electrolyte Measures During Moderate-Intense Exercise in the Heat  
Dawn Emerson, PhD, ATC, University of South Carolina

9:30am - 9:45am

Walking Gait Asymmetries in Groups of ACL Reconstructed Patients at Sequential Time Frames Post-Surgery  
John Goetschius, PhD, ATC, University of Virginia

9:45am - 10:00am

Meaningful Patient Outcomes Reported by College Athletes Fit the ICF Model: A Report on Recovery Following Lower Extremity Injury  
Tricia Majewski-Schrage, MS, ATC, LAT, University of Northern Iowa

10:00am - 10:15am

Understanding the Role of Secondary School Nurses and Their Collaboration With Athletic Trainers  
Brittany Todaro, DAT, LAT, ATC, Indiana State University

**Free Communication RapidFire Presentations, 9:15am - 10:30am**

**Case Studies of the Head, Neck and Spine**

Moderator: Rob Rehberg, PhD, ATC, NREMT, William Patterson University  
GRBCC, Room 371

Vertebral Artery Dissection in a Division I College Football Player  
Corey Rodrigo, ATC, Jacksonville Jaguars

Atlas Subluxation in a Female High School Basketball Athlete  
Jack Fitzgerald, Marist College

Acute Sinus Infection Progressing to Orbital Cellulitis in a Division I Collegiate Equestrian Athlete  
Caitlyn VanWie, MS, ATC, CSCS, University of Georgia

Maxillofacial and Cranial Bone Fractures in a Male Collegiate Lacrosse Player  
Kiley Buchanan, Capital University

Greater Occipital Nerve Block Following a Concussion in Division One Women's Basketball Player  
Claire Donskey, LAT, ATC, University of Utah

Spine Pain in an Intercollegiate Football Athlete  
Kayla Donovan, Southern Connecticut State University

Traumatic Atypical Low Back Pain With Radiculopathy Following a Failed Cheerleading Dismount: A Case Study  
Raena Steffen, MS, ATC, LAT, Johns Hopkins All Children's Hospital

Chronic Low Back Pain in an Adolescent Athlete  
Sheri McNew, MA, ATC, University of Kentucky Orthopaedics & Sports Medicine

Lumbarization Accompanied by Spina Bifida Occulta in a Female Soccer Player  
Laurie Blunk, MS, LAT, ATC, University of Kentucky

Retrolisthesis of the Lumbar Spine in a Female Multisport High School Athlete: A Case Report  
Olivia Spuler, BA, Lee University

Concussions in a Single Youth Football League: A Case Series  
Kevin MacIntyre, SCAT, ATC, University of South Carolina

**Free Communication Oral Presentations, 9:30am - 10:15am**

**Things That Don't Go Well Together: Ankle Sprains and Quality of Life**

Moderator: Megan Houston, PhD, ATC, Keller Army Hospital  
GRBCC, Room 360

9:30am - 9:45am

Influence of Self-Reported Function and Pain in Differentiating Chronic Ankle Instability and Lateral Ankle Sprain Copers  
Phillip Gribble, PhD, ATC, FNATA, University of Kentucky

9:45am - 10:00am

Test-Retest Reliability, Minimal Detectable Change and Responsiveness of the Quick-FAAM in Individuals With Chronic Ankle Instability  
Johanna Hoch, PhD, ATC, LAT, Old Dominion University

10:00am - 10:15am

Changes in Health-Related Quality of Life in Adolescent Athletes Following an Ankle Sprain Injury: A Report From the Athletic Training Practice-Based Research Network  
Kenneth Lam, ScD, ATC, A.T. Still University

**Free Communication Oral Presentations, 9:30am - 11:00am**

**When Exercise Gets Hot**

Moderator: Lesley Vandermark, PhD, ATC, PES, University of Arkansas  
GRBCC, Room 370

9:30am - 9:45am

Implementation of Heat Acclimatization Policies in Secondary School Athletics  
William Adams, PhD, LAT, ATC, University of Connecticut

9:45am - 10:00am

The Effect of Environmental Heat Stress on Functional Balance in Firefighters  
Zachary Winkelmann, MS, LAT, ATC, Indiana State University

10:00am - 10:15am

Thermoregulatory and Perceptual Effects of a Percooling Garment Worn Underneath an American Football Uniform  
Megan Keen, Central Michigan University

10:15am - 10:30am

Physiological and Perceptual Effects of Repeated Exercise Bouts in Heat  
Riana Pryor, PhD, ATC, California State University at Fresno

10:30am - 10:45am

The Difference in Core Temperature and Heart Rate Between Collegiate American Football Backs and Linemen During Pre-Season  
Beth Poland Ward, LAT, ATC, West Chester University

10:45am - 11:00am

Repeated Exertional Heat Stroke Incidence in a Warm-Weather Road Race  
Rebecca Stearns, PhD, ATC, Korey Stringer Institute

**Free Communication Oral Presentations, 10:30am - 11:30am**

**The PRO's of Knee Function**

Moderator: Johanna Hoch, PhD, ATC, Old Dominion University  
GRBCC, Room 361

10:30am - 10:45am

Physical Activity Levels and Subjective Function in Individuals With and Without Patellofemoral Pain  
Neal Glaviano, PhD, AT, ATC, University of Toledo

10:45am - 11:00am

Differences in Quality of Life Among Patients After Knee Surgery

Rachel Evans, MS, ATC, University of Kentucky

11:00am - 11:15am

Can the IKDC Subjective Patient Outcome Predict Limb Asymmetries in Clinician Reported Outcomes?

Connor Burton, University of Indianapolis

11:15am - 11:30am

Effect of Response Shift on Agreement Between Patient Reported Outcomes and Performance Based Measures in Knee Patients

Shelby Baez, MS, LAT, ATC, Old Dominion University

**Free Communication RapidFire Presentations, 10:45am - 11:45am**

**Injury Prevalence and Interventions in Unique Populations**

GRBCC, Room 371

Athletic Trainer Integration in U.S. Air Force Basic Training

Reid Fisher, EdD, ATC, University of the Incarnate Word

Fatigue Diminishes Static and Dynamic Balance in Firefighters

Kenneth Games, PhD, LAT, ATC, Indiana State University

The Prevalence, Risk and Rate of Musculoskeletal Injuries and Sudden Illnesses in Marching Band and Color Guard Members: A Systematic Review

Alissa Rhode, Saginaw Valley State University

Injury History, Severity and Medical Care for Athletes Participating in Brazilian Jiu-Jitsu

Hirokichi Usuki, ATC, Upper Iowa University

Epidemiological Characteristics of Musculoskeletal Injuries in Thoroughbred Horse Racing

Carolina Quintana, ATC, University of Kentucky

A Retrospective Analysis of Jockey Injuries in the United States

Jed Crots, ATC, University of Kentucky

Emerging Setting: Athletic Trainers Positively Impact Orthopaedic Trauma Patients' 12-Week Functional and Perceived Functional Outcomes

Laura Zdziarski, LAT, ATC, University of Florida

**Free Communication Oral Presentations, 11:15am - 12:45pm**

**Lower Extremity Mechanics, Function and Overuse Injury**

Moderator: Scott Ross, PhD, ATC, University of North Carolina at Greensboro

GRBCC, Room 370

11:15am - 11:30am

Trunk and Lower Extremity Movement Patterns and Stress Fracture Risk Factors Influence Biomarkers of Bone Turnover During Cadet Basic Training

Timothy Mauntel, PhD, ATC, Walter Reed National Military Medical Center

11:30am - 11:45am

Influence of Anterior Knee Pain With/Without Structural Patellar Tendon Damage on Arthroscopic Muscle Inhibition

Steven Davi, MS, ATC, University of Connecticut

11:45am - 12:00pm

The Effect of a Four-Week Short-Foot Exercise on Gait Characteristics in Patients With Stage Two Posterior Tibial Tendon Dysfunction

Jinah Kim, MS, PT, CSCS, Yonsei University

12:00pm - 12:15pm

Relationship of Running Biomechanics With Hip Strength and Trunk Endurance

Megan Beard, PhD, ATC, Capital University

12:15pm - 12:30pm

Achilles Tendon Cross Sectional Area Changes Over a NCAA Division I Cross Country Season

Justin Rigby, PhD, ATC, Texas State University

12:30pm - 12:45pm

Analysis of Plantar Fasciitis Risk Factors Among Intercollegiate and Recreational Runners: A Matched Case-Control Study

Matthew McNamee, MS, ATC, LAT, St. Edward's University

**Free Communication Oral Presentations, 11:45am - 12:45pm**

**Concussion in the Tactical Athlete**

Moderator: Rob Lynall, PhD, ATC, University of Georgia

GRBCC, Room 360

11:45am - 12:00pm

Concussion Disclosure Knowledge, Attitudes, Beliefs and Behaviors Among First Year Service Academy Cadets: The BANK Study

Johna Register-Mihalik, PhD, LAT, ATC, University of North Carolina at Chapel Hill

12:00pm - 12:15pm

The Influence of Self-Reported Tobacco Use on Baseline Concussion Assessments Among Service Academy Cadets

Sean Roach, LAT, ATC, CSCS, Keller Army Hospital

12:15pm - 12:30pm

Reference Values for the Balance Error Scoring System in Military Cadets  
Megan Houston, PhD, ATC, Keller Army Hospital

12:30pm - 12:45pm

Factors Associated With Delayed Concussion Reporting in Military Academy Cadets  
Stephanie Carminati, LAT, ATC, CSCS, Keller Army Hospital

**Free Communication Oral Presentations, 11:45am - 1:00pm**

**Diversity and Inclusion Considerations in Athletic Training**

Moderator: Dani Moffit, PhD, ATC, Idaho State University  
GRBCC, Room 361

11:45am - 12:00pm

Perceptions of Race and Ethnic Diversity on Athletic Training Clinical Practice  
Kelly Coleman, MS, ATC, University of Connecticut

12:00pm - 12:15pm

The Experiences of Women Athletic Trainers Providing Medical Care to Male Sports Teams  
Jessica Barrett, MEd, ATC, University of Connecticut

12:15pm - 12:30pm

Providing Medical Care to Male Sports Teams: Attractors to Employment for Female Athletic Trainers  
Alicia Pike, MS, ATC, University of Connecticut

12:30pm - 12:45pm

Athletic Trainers' Perception and Self-Perceived Competence Working With Athletes With Disabilities  
Eric Aurelien, LAT, ATC, Temple University

12:45pm - 1:00pm

Clinical Integration: How Minority Athletic Training Students Compare to Nonminority Students  
Kristine Ensign, PhD, LAT, ATC, Ohio University

**Free Communication RapidFire Presentations, 12:00pm - 1:00pm**

**Measuring Functional Performance**

Moderator: Janet Simon, PhD, ATC, Ohio University  
GRBCC, Room 371

Validation of the Sport Fitness Index for Quantification of Injury Effects on Functional Status  
Carrie Baker, PhD, ATC, University of Tennessee at Chattanooga

Performance Tracking Over a Single Season in Male Collegiate Soccer Players  
Chris Donner, MEd, ATC, University of Virginia

Screening Ballet Dancers Using the Functional Movement Screen  
Alyssa McPherson, MS, LAT, ATC, Indiana University

Recreational and Competitive Athletes' Perceptions of Functional Activity Limitations Using the Patient-Specific Functional Scale Following Orthopedic Injury

Alison Snyder Valier, PhD, AT, FNATA, A.T. Still University

Functional Performance Measures Increase During a High School Sports Season

Todd Sabol, ATC, Ohio University

The Comparative Effects of Ankle Bracing on Functional Performance

Thomas Newman, MEd, LAT, ATC, Pennsylvania State University

Prophylactic Ankle Bracing Corrects Lower Extremity Alignment Without Decreasing Functional Performance

Garrett Hueber, MS, ATC, St. Vincent Sports Performance

## **WEDNESDAY, JUNE 28, 2017**

### **Free Communication Oral Presentations, 7:00am -8:15am**

#### **Emergency Management of the Broken Heart**

Moderator: Ron Courson, ATC, PT, NRAEMT, University of Georgia

GRBCC, Room 361

7:00am - 7:15am

Division I Men's Soccer Player With History of a Cardiac Condition: A Case Report

Adam Wesche, ATC, LAT, University of Central Florida

7:15am - 7:30am

An Examination of Emergency Planning of Secondary School Athletics Programs in District Four of the National Athletic Trainers' Association

Jennifer Popp, EdD, LAT, ATC, Ball State University

7:30am - 7:45am

Evaluation of College Students Performing Compression-Only Cardiopulmonary Resuscitation With High-Fidelity Equipment

Katie Lyman, PhD, ATC, NREMT, North Dakota State University

7:45am - 8:00am

Skill of Athletic Trainers Performing Two Rescuer CPR

Mark Cashin, Seton Hall University

8:00am - 8:15am

The Ability to Provide Quality Chest Compressions Over Lacrosse Shoulder Pads to Initiate CPR

Thomas Bowman, PhD, ATC, Lynchburg College

### **Free Communication Oral Presentations, 7:00am -8:00am**

#### **Successes and Failures of Injury Prevention**

Moderator: Gary Wilkerson, EdD, ATC, FNATA, University of Tennessee at Chattanooga



GRBCC, Room 370

7:00am - 7:15am

Healthy Females Demonstrate Retention of Lower Extremity Biomechanical Changes Following a 4-Week Feedback Intervention Program  
Hayley Ericksen, PhD, ATC, Northern Kentucky University

7:15am - 7:30am

Effects of External Focus Feedback on Drop Landing Mechanics Transfer and Retention in Female Athletes  
Kelly Leonard, MS, ATC, Ohio University

7:30am - 7:45am

Considerations for Implementing Injury Prevention Exercises in U.S. Marine Corps Training  
Carolyn Dartt, MEd, ATC, Henry M. Jackson Foundation for the Advancement of Military Medicine

7:45am - 8:00am

Athletic Trainers' Injury Prevention Practice Strategies and Barriers in Secondary Schools  
Caroline Guindon, LAT, ATC, Indiana State University

**Free Communication Oral Presentations, 7:15am -8:00am**

**Considerations for Secondary School Athletic Trainers'**

Moderator: Kelly Pagnotta, PhD, ATC, Temple University  
GRBCC, Room 360

7:15am - 7:30am

Employment of Athletic Trainers In Secondary Schools: The ATLAS Project  
Sarah Attanasio, ATC, University of Connecticut

7:30am - 7:45am

Secondary School Athletic Trainers' Perceptions, Practices and Barriers to the Use of Patient-Rated Outcome Measures  
Brian Coulombe, MS, LAT, ATC, Texas Lutheran University

7:45am - 8:00am

Implementation of Emergency Action Plan Policies in Secondary School Athletics  
Samantha Scarneo, MS, ATC, University of Connecticut

**Free Communication RapidFire Presentations, 8:00am - 8:45am**

**Lower Extremity Symmetry Following ACL Reconstruction**

Moderator: Brian Pietrosimone, PhD, ATC, University of North Carolina at Chapel Hill  
GRBCC, Room 371

Inter-Limb Comparison of Knee Mechanics During Running Following ACL Reconstruction  
Derek Pamukoff, PhD, California State University at Fullerton

Hip Strength, Pelvis Kinematic Asymmetries, Knee Injury and Osteoarthritis Outcome Score in Competitive Female Basketball Players After Anterior Cruciate Ligament Reconstruction: A Pilot Study  
Hidetomo Suzuki, PhD, ATC, CSCS, Niigata University of Management

Landing Error Scoring System Symmetry in Individuals With and Without a History of ACL Reconstruction  
Adam Kelly, MS, ATC, Michigan State University

Participants at Return to Sport After Anterior Cruciate Ligament Reconstruction Demonstrate Differences in Lower Extremity Energy Absorption Contribution and Limb Symmetry Index Compared to Healthy Controls  
Marian Abowd, MS, LAT, ATC, Texas Health Ben Hogan Sports Medicine

Comparison of Unilateral and Symmetry-Based Outcomes in Patients with ACL Reconstruction and Those with Meniscus Pathology  
Christopher Kuenze, PhD, ATC, Michigan State University

**Free Communication Oral Presentations, 8:30am - 9:30am**

**Faculty Development and Transition to Higher Education**

Moderator: Jeff Konin, PhD, ATC, FNATA, University of Rhode Island  
GRBCC, Room 361

8:30am - 8:45am

Perceptions of Tenure and Promotion Guidelines and Criteria Among Athletic Training Doctoral Students  
Thomas Bowman, PhD, ATC, Lynchburg College

8:45am - 9:00am

Transition From Student to Faculty: Socialization Facilitators and Barriers Among Junior Faculty  
Brienne Kilbourne, EdD, ATC, Emory & Henry College

9:00am - 9:15am

Finding Work-Life Balance Among Junior Athletic Training Faculty  
Stephanie Mazerolle, PhD, ATC, FNATA, University of Connecticut

9:15am - 9:30am

Effective Formal Mentoring in Higher Education: Perspectives From Participants of the NATA Research & Education Foundation Research Mentor Program  
Sara Nottingham, EdD, ATC, Chapman University

**Free Communication RapidFire Presentations, 9:00am -10:00am**

**This is Your Brain on Ankle Sprains: CNS Alterations CAI Patients**

Moderator: Alan Needle, PhD, ATC, Appalachian State University  
GRBCC, Room 371

Effects of Acute Ankle Sprain on Spinal Excitability of Lower Leg Muscles During Upright Standing  
Kyung-Min Kim, PhD, LAT, ATC, University of Miami

Reliability & Responsiveness of Sensory-Reweighting Strategies in Those With Chronic Ankle Instability  
Erik Wikstrom, PhD, LAT, ATC, University of North Carolina at Chapel Hill

Non-Linear Analysis of Postural Stability Under Dual-Task Conditions in Patients With Chronic Ankle Instability, Copers and Controls  
Melanie McGrath, PhD, LAT, ATC, University of Montana

Sensory Organization Testing in Individuals With Chronic Ankle Instability  
Kyeongtak Song, MS, ATC, CSCS, University of North Carolina at Chapel Hill

The Association of Corticospinal Excitability and Inhibition with Ankle Kinematics in Chronic Ankle Instability Individuals  
Colin Drinkard, MS, ATC, LAT, University of Kentucky

Visual and Neurocognitive Function in Individuals With Chronic Ankle Instability  
Nikki Jackson, MS, ATC, Ohio University

Cortical Activity Relates to Injury Severity in Chronic Ankle Instability Patients  
Christopher Burcal, MSc, LAT, ATC, University of North Carolina at Charlotte

Neurocognitive Function is Related to Perceived Disability in Individuals With Chronic Ankle Instability  
Adam Rosen, PhD, ATC, University of Nebraska at Omaha

**Free Communication Oral Presentations, 9:30am -10:30am**

**Function and Performance in Baseball Players**

Moderator: Charles Thigpen, PhD, PT, ATC, ATI Physical Therapy  
GRBCC, Room 360

9:30am - 9:45am

Relationship Between Throwing Velocity and Physical Characteristics in Adolescent Baseball Players  
Elizabeth Hibberd, PhD, ATC, University of Alabama

9:45am - 10:00am

Associations of Baseball Pitching Technical Errors at Stride Foot Contact, Maximal External Rotation and Ball Release  
Brett Pexa, MA, ATC, LAT, University of North Carolina at Chapel Hill

10:00am - 10:15am

Analysis of Trunk Movement During Pitching Using Inertial Measurement Unit  
Sakiko Oyama, PhD, ATC, University of Texas San Antonio

10:15am - 10:30am

Responsiveness of the Functional Arm Scale for Throwers© (FAST) in Injured Baseball Players  
R. Curtis Bay, PhD, A.T. Still University

**Free Communication Oral Presentations, 9:30am -10:45am**

### **Breaking it Down: Loading, Degeneration and Osteoarthritis**

Moderator: Jeffrey Driban, PhD, ATC, CSCS, Tufts Medical Center  
GRBCC, Room 370

9:30am - 9:45am

Differences in Functional Capacity and Subjective Symptoms Related to Joint Degeneration in Those With and Without Chronic Ankle Instability  
Kyle Kosik, MEd, ATC, University of Kentucky

9:45am - 10:00am

Greater Loading of the Reconstructed Leg is Associated With Better Patient-Related Outcomes in Patients With Anterior Cruciate Ligament Reconstruction  
Benjamin Goerger, PhD, ATC, Georgia State University

10:00am - 10:15am

Comprehensive Ultrasonographic Assessment of Femoral Cartilage in Individuals With an Anterior Cruciate Ligament Reconstruction  
Matthew Harkey, MS, ATC, University of North Carolina at Chapel Hill

10:15am - 10:30am

Chronicity of Quadriceps Function in ACL Reconstructed Patients With and Without Knee Osteoarthritis  
Grant Norte, PhD, ATC, CSCS, University of Toledo

10:30am - 10:45am

Effects of Proprioception Training on Patient Outcomes for Knee Osteoarthritis: Systematic Review and Meta-Analysis  
Hee Seong Jeong, Yonsei University

### **Free Communication Oral Presentations, 9:45am -11:15am**

#### **Head Impacts Biomechanics: More Than Just Football**

Moderator: Julianne Schmidt, PhD, ATC, University of Georgia  
GRBCC, Room 361

9:45am - 10:00am

Peak Resultant Linear Acceleration Agreement Between Common Head Impact Sensor Devices  
Kody Campbell, MS, University of North Carolina at Chapel Hill

10:00am - 10:15am

A Helmetless Tackling Training Intervention to Decrease Head Impacts in American Football: Year Two  
Erik Swartz, PhD, ATC, FNATA, University of New Hampshire

10:15am - 10:30am

Subconcussive Impact Dependent Increase in Plasma S100B Expression in Collegiate Football Players  
Keisuke Kawata, PhD, ATC, Indiana University

10:30am - 10:45am

Concussive Head Impact Biomechanics in Women's Lacrosse and Soccer Athletes

Hallie Sayre, Lynchburg College

10:45am - 11:00am

Assessment of Youth Football Helmet Fitting Quality  
James Scifers, DScPT, LAT, ATC, Moravian College

11:00am - 11:15am

Training Alone May Not Lead to Meaningful Change: Coaches' Implementation of the USA Football  
"Heads Up Football" Educational Program  
Zachary Kerr, PhD, MPH, University of North Carolina at Chapel Hill

**Free Communication RapidFire Presentations, 10:15am -11:15am**

**Concussion Outcomes: The Acute Stage**

Moderator: David Howell, PhD, ATC, Boston Children's Hospital  
GRBCC, Room 371

Post-Concussion Symptom Reporting: Is Gender a Factor in the Adolescent Population?  
Jessica Dunne, MS, LAT, ATC, Northwest Orthopedics and Sports Medicine

Examination of Anxiety and Willingness to Return to Play in Injured Athletes  
Lauren Stephenson, MA, ATC, Stony Brook University

Adolescent Athletes' Perceptions of Activity Limitations Following Sport-Related Concussion  
Tamara Valovich McLeod, PhD, ATC, FNATA, A.T. Still University

The Use of Academic Adjustments Following Concussion Among Adolescent Athletes  
Cailee Welch Bacon, PhD, ATC, A.T. Still University

Concussion Education Associated With Teachers' Increased Familiarity With and Recommendation of  
Academic Adjustments for Adolescents Post-Concussion  
Tricia Kasamatsu, PhD, ATC, California State University at Fullerton

High School Principals' Perception of Concussion and Return-to-Learning Accommodations  
Kristyn Tekulve, MD, St. Vincent Sports Performance

The Effects of Concussion on Energy Expenditure in Adolescents  
Candace Bernitt, MEd, ATC, University of Virginia

**Free Communication RapidFire Presentations, 5:00pm – 6:00pm**

**Gait and Running Mechanics**

Moderator: Jay Hertel, PhD, ATC, FNATA, University of Virginia  
GRBCC, Room 361

Ankle Kinematics and Kinetics During Walking Before and After Exercise  
Revy Corbett, MS, ATC, PES, University of Virginia

Step-Down Task Identifies Differences in Ankle Frontal Plane Kinematics During Walking in Recreationally Active Adults

Luke Donovan, PhD, ATC, University of North Carolina at Charlotte

Combined High-Intensity Strength Training and Gait Retraining Improves Strength, But Not Walking Biomechanics in Individuals With Anterior Cruciate Ligament Reconstruction: A Case Series

Brittney Luc-Harkey, MS, ATC, University of North Carolina at Chapel Hill

The Effects of Nine-Week Cadence Training on Biomechanics in Novice Runners

Naoko Aminaka, PhD, ATC, University of Wisconsin at La Crosse

Stride Frequency and Lower Extremity Injury in Collegiate Distance Runners

Addam Kitchen, LAT, ATC, Indiana State University

Validation of a Wearable Sensor for Measuring Running Biomechanics

Rachel Koldenhoven, MEd, ATC, University of Virginia

Gait Mechanics as Measured by a Wearable Sensor While Running at Two Speeds on Different Surfaces

Christina Hollis, MEd, ATC, University of Virginia

**Free Communication Oral Presentations, 5:00pm - 6:15pm**

**Learning Practices in Athletic Training Education**

Moderator: Stacy Walker, PhD, ATC, Ball State University

GRBCC, Room 360

5:00pm - 5:15pm

Simulated Patients Are Predominately Used to Teach and Evaluate Athletic Training Student's Skills: A 10 Year Follow-Up Study

Kirk Armstrong, EdD, ATC, LAT, Indiana State University

5:15pm - 5:30pm

Student Perceptions of Standardized Patient Use in Athletic Training Education

Allison Gardiner, ATC, Old Dominion University

5:30pm - 5:45pm

Examining the EBP Process in Clinical Education: What Drives EBP and How are the Prongs of EBP Utilized?

Thomas Dodge, PhD, ATC, CSCS, Springfield College

5:45pm - 6:00pm

Network Analysis of Clinical Placement of Athletic Training Students

Michael Miller, PhD, ATC, FNATA, Western Michigan University

6:00pm - 6:15pm

Learner Centeredness in Athletic Training Clinical Education Experiences

Laura Kunkel, EdD, ATC, PES, Texas Wesleyan University

**Free Communication Oral Presentations, 5:00pm - 6:15pm**

**Lower Extremity Movement Screening and Injury Prevention**

Moderator: Darin Padua, PhD, ATC, University of North Carolina at Chapel Hill  
GRBCC, Room 370

5:00pm - 5:15pm

Prediction of Core and Lower Extremity Injuries Among High School Football Players  
Marisa Colston, PhD, ATC, University of Tennessee at Chattanooga

5:15pm - 5:30pm

Functional Movement Screen and Overuse Injuries in Collegiate Club Sport Athletes  
Cathleen Brown Crowell, PhD, ATC, Oregon State University

5:30pm - 5:45pm

Intra- and Inter-Rater Reliability of the Selective Functional Movement Assessment in Healthy Subjects  
Justin Stanek, EdD, ATC, Illinois State University

5:45pm - 6:00pm

The Effect of a Preventative Training Program on Neuromuscular Control in Elite Adolescent Athletes  
During Double- and Single-Limb Functional Tasks  
Eleanor Beltz, MS, ATC, CSCS, University of Connecticut

6:00pm - 6:15pm

High Intensity Functional Movement Protocol Improves Movement Pattern Efficiency and Overall Work  
Capacity in an Offensive Lineman With an Arm Length Discrepancy  
Scott Dietrich, EdD, ATC, CF-L2, East Stroudsburg University

**Free Communication RapidFire Presentations, 5:00pm – 6:15pm**

**Prevention and Management of Emergent Conditions**

Moderator: David Berry, PhD, ATC, Saginaw Valley State University  
GRBCC, Room 371

Effectiveness of Different Airway Management Devices at Providing Quality Ventilations in Different  
Helmet Conditions

Richard Boergers, PhD, ATC, Seton Hall University

Epidemiology of Injuries Requiring Emergency Transport Among College and High School Student  
Athletes

Rebecca Hirschhorn, MS, ATC, SCAT, University of South Carolina

Factors That Affect Removal Time of the Riddell Speed Flex Face Mask

Thomas Henrie, Idaho State University

Bilateral Shoulder Dislocations Following a Motocross Accident

Heidi Schroepfer, MS, ATC, OTC, The Steadman Clinic at Steadman Philippon Research Institute

Usability and Tolerability of Novel Brain Injury Prevention Device Used in High School Football  
Kim Barber Foss, MS, ATC, LAT, Cincinnati Children's Hospital

The Association Between Chest Compression Fraction to Survival at Discharge Following Out-of-Hospital Sudden Cardiac Arrest Events: A Systematic Review  
Riley Bell, Saginaw Valley State University

Opinions of Medical Professionals on the Effectiveness of Three Spine Immobilization Techniques in a Gymnastics Pit  
Jeffrey Bonacci, DA, ATC, University of Arkansas

## **THURSDAY, JUNE 29, 2017**

### **Free Communication Oral Presentations, 7:00am – 7:45am**

#### **Pain in the Backside: Low Back Pain**

Moderator: Craig Denegar, PhD, ATC, FNATA, University of Connecticut  
GRBCC, Room 360

7:00am - 7:15am

Risk Factors of Low Back Pain in Female Collegiate Rowers  
Sophia Gonzalez, DPT, SCS, ATC, Princeton University

7:15am - 7:30am

Subjective Disability Improvements Following Interventions Among Athletes With Low Back Pain  
Mark Sutherlin, PhD, ATC, CSCS, State University of New York College at Cortland

7:30am - 7:45am

Mechanical and Electrical Evaluation of Muscle Activity During Exercise in Individuals With and Without Low Back Pain  
L. Colby Mangum, MEd, ATC, University of Virginia

#### **Lateral Ankle Sprain Treatment: Do It Because It Works**

Moderator: Thomas Kaminski, PhD, ATC, FNATA, University of Delaware  
GRBCC, Room 370

7:00am - 7:15am

Athletic Training Services in the Treatment of Ankle Sprains Sustained During High School Athletics  
Janet Simon, PhD, AT, Ohio University

7:15am - 7:30am

Secondary School Athletic Trainers' Documentation Strategies and Clinical Management of Acute Lateral Ankle Sprains  
Robert Vallandingham, MS, LAT, ATC, Indiana State University



7:30am - 7:45am

Lack of Treatment From a Medical Professional After an Acute Lateral Sprain

Tricia Hubbard-Turner, PhD, ATC, FNATA, University of North Carolina at Charlotte

**Free Communication RapidFire Presentations, 7:00am – 7:45am**

**Injury Surveillance and Epidemiology**

Moderator: Zachary Kerr, PhD, MPH, University of North Carolina at Chapel Hill

GRBCC, Room 371

The Epidemiology of Musculoskeletal Coxofemoral Injuries in the National Athletic Treatment Injury and Outcomes Network, 2011-2012 to 2013-2014 Academic Years

Sara Dalton, MEd, LAT, ATC, Datalys Center for Sports Injury Research and Prevention

Epidemiology of Low Back Injuries Sustained by Secondary School Athletes: A Report From the National Athletic Treatment, Injury, and Outcomes Network

Luke Beermann, ATC, Brophy College Preparatory

Differences in Time Loss and Non-Time Loss Injury Rates by Division Across National Collegiate Athletic Association Football

Erin Wasserman, MD, Datalys Center for Sports Injury Research and Prevention

Comparison of Injury Rates by Exposure Type in Collegiate Men's Soccer, 2011-2012 to 2015-2016 Academic Years

Aristarque Djoko, MS, Datalys Center for Sports Injury Research and Prevention

Descriptive Epidemiology of Injuries in U.S. High School Girls' and NCAA Women's Basketball: 2004-2005-2013-2014

Daniel Clifton, MEd, ATC, Ohio State University

The Epidemiology of Baseball-Related Eye Injuries Among Youth Athletes in Japan

Kinji Kusumoto, ATC, CSCS, PES, National Institute of Advanced Industrial Science and Technology

**Free Communication Thematic Poster Presentations, 7:30am – 8:45am**

**Concussion Policy and Legislation**

Moderator: Jacob Resch, PhD, ATC, University of Virginia

GRBCC, Room 361

1. Implementation of Concussion Policies in Secondary School Athletics

Kelsey Rynkiewicz, LAT, ATC, NREMT, University of Connecticut

2. Clinical Presentation, Concussion Management and Return-to-Play Practices of Secondary School Athletic Trainers Between 2013-2015

Krista Hixson, AT, ATC, A.T. Still University

3. The Impact of Athletic Trainer Access on School Counselors' Perceptions of Academic Adjustments for Concussed Student Athletes in the Secondary School Setting

Rachel Johnson, ATC, A.T. Still University

4. Presence of Athletic Trainers, Emergency Action Plans and Emergency Training at the Time of Sudden Death in Secondary School Athletics

Robert Huggins, PhD, LAT, ATC, Korey Stringer Institute at University of Connecticut

5. Assessment of Implementation of the Dylan Steigers Protection of Youth Athletes Act: A Descriptive Study

Valerie Moody, PhD, LAT, ATC, University of Montana

6. An Examination of Concussion Legislation in the United States

Kelly Potteiger, PhD, ATC, LAT, Northern Illinois University

**Free Communication RapidFire Presentations, 8:00am – 9:00am**

**Shoulder Pain: Clinical Presentation and Management**

Moderator: Jason Scibek, PhD, LAT, ATC, Duquesne University

GRBCC, Room 371

Tennis Serve Volume and its Relationship to Injury in Professional Women's Tennis Players

Gabrielle Sombelon, MS, ATC, University of Kentucky

Clinical Evaluation Findings in Patients Diagnosed With Impingement or Shoulder Pain: A Report From the Athletic Training Practice-Based Research Network

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

Observational Scapular Dyskinesia: Prevalence in Individuals With and Without Shoulder Pain

Hillary Plummer, PhD, ATC, CES, University of Southern California

Significantly Increased Odds of Reporting Previous Shoulder Injury in Females Based on Larger Magnitude Shoulder Rotator Side-to-Side Strength Differences

Shawn Eagle, ATC, CSCS, University of Pittsburgh

Effects of Compex® as a Warm-Up for Glenohumeral Range of Motion

Melissa Ericson, LAT, ATC, Indiana State University

Effects of Six-week Open Kinetic Chain and Closed Kinetic Chain Resistance Exercise Programs on Scapular Upward Rotation

Steven Tucker, PhD, ATC, University of Central Arkansas

Let Them Play! Conservative Management of the High School Athlete's Unstable Shoulder Results in High Return to Sport

Ellen Shanley, PhD, PT, OCS, ATI

**Free Communication Oral Presentations, 10:45am – 11:45am**

## **Interprofessional and Collaborative Practice**

Moderator: Sara Brown, MS, ATC, Boston University  
GRBCC, Room 360

10:45am - 11:00am

Collegiate Athletic Trainers' Perceptions of Interprofessional and Collaborative Practice  
Dorice Hankemeier, PhD, LAT, ATC, Ball State University

11:00am - 11:15am

Changes in Confidence and Understanding of Interprofessional Values and Teamwork Following an Ethics Workshop  
Sarah Wallace, PhD, CCC-SLP, Duquesne University

11:15am - 11:30am

Effects of an Interprofessional Living Learning Community with Athletic Training, Dietetics, Exercise Science and Nursing Students on Their Attitudes Toward College  
Melissa Snyder, PhD, LAT, ATC, Western Carolina University

11:30am - 11:45am

Perceived Drawbacks, Benefits and Resources for Interprofessional and Collaborative Practice: Perspectives of Collegiate Athletic Trainers  
Sarah Manspeaker, PhD, ATC, Duquesne University

## **Free Communication Thematic Poster Presentations, 10:45am – 12:00pm**

### **Factors Influencing Function Following ACL Reconstruction**

Moderator: Grant Norte, PhD, ATC, CSCS, University of Toledo  
GRBCC, Room 361

1. Bilateral Lower Extremity Energy Absorption Patterns and Muscle Strength in Adolescent Males and Females During Jump-Landing at Return to Sport Following Anterior Cruciate Ligament Reconstruction  
Shiho Goto, PhD, ATC, Texas Health Ben Hogan Sports Medicine
2. Comparison of Quadriceps Rate of Torque Development and Sagittal Plane Knee Kinematics During Two Jump Tasks Between ACL Reconstructed and Healthy Females  
Yu-Lun Huang, MS, ATC, Oregon State University
3. Sagittal Plane Knee Mechanics in Those Who Pass or Fail a Functional Test Battery  
Eunwook Chang, PhD, ATC, LAT, Inha University, South Korea
4. Patients With Anterior Cruciate Ligament Reconstructive Surgery Demonstrate Reduced Ability to Contract Transverse Abdominis but No Difference in Balance  
Rebecca Ban, MS, ATC, Georgia State University
5. Comparisons of ACL Laxity, Size and Intrinsic Properties Between ACLR and Healthy Individuals  
Hsin-Min Wang, PhD, China Medical University
6. Comparison of Aerobic Capacity in Healthy and Surgically Repaired Anterior Cruciate Ligament Legs in Recreationally Active Individuals

Morgan Bagley, PhD, AT, ATC, Kent State University

7. Relationships of Muscle Function and Subjective Knee Function in Chronic ACL-Reconstructed Patients  
Stephan Bodkin, MEd, ATC, University of Virginia

8. Physical Activity Influences the Relationship Between Lower Extremity Function and Fear of Movement After ACL Reconstruction  
Haley Solaas, MEd, ATC, University of Virginia

**Free Communication Oral Presentations, 10:45am – 12:00pm**

**Workplace Concepts in Athletic Training Practice Settings**

Moderator: Tory Lindley, MA, ATC, Northwestern University  
GRBCC, Room 370

10:45am - 11:00am

Initial Validation of a Multilevel Model of Job Satisfaction and Career Intentions Among Collegiate Athletic Trainers

Christianne Eason, PhD, ATC, Lasell College

11:00am - 11:15am

Athletic Trainers' Perceptions of Organizational-Professional Conflict in Athletic Training Practice Settings

William Pitney, EdD, ATC, FNATA, Northern Illinois University

11:15am - 11:30am

Formal Work-Life Balance Practices in College and University Athletic Training Settings

Lindsey Eberman, PhD, LAT, ATC, Indiana State University

11:30am - 11:45am

Burnout in Athletic Trainers: A Systematic Review of the Literature

Leslie Oglesby, MS, LAT, ATC, Baylor University

11:45am - 12:00pm

Factors Influencing the Decision of Athletic Trainers to Leave the Profession and Enter a Different Allied Health Profession

Craig Voll, Jr., PhD, LAT, ATC, University of Indianapolis

**Free Communication RapidFire Presentations, 10:45am – 12:00pm**

**Health Care Consideration in the Female Athlete**

Moderator: Tori Torres-McGehee, PhD, SCAT, ATC, University of South Carolina  
GRBCC, Room 371

Role of Hand Placement at Initial Contact on Peak Ground Reaction Force During a Back Handspring on Balance Beam

Saskia Richter, MS, ATC, Ohio State University

Comparison of Traditional and Smartphone Goniometers for Elbow Motion in Female Gymnasts  
Laura Boucher, PhD, ATC, Ohio State University

Competitive Gymnasts' Perceptions of Activity Limitations Using the Patient Specific Functional Scale Following Orthopedic Injury  
Carlie Elmer, AT, ATC, A.T. Still University

Nested Case-Control Study of Injury Risk Factors Among Youth Volleyball Players  
Mikiko Nakajima, EdD, ATC, California State University at Long Beach

Pre-Season Patellar Tendon Structure and Self-Reported Function Are Not Associated in Division I Collegiate Female Volleyball Athletes  
Laura Stanley, PT, DPT, SCS, University of North Carolina at Chapel Hill

Prospective Study of Golf-Related Injuries in Korean Female Professional Golfers, 2016 Season  
Sae Yong Lee, PhD, ATC, Yonsei University

Comparison of Lower Extremity Range of Motion, Strength and Power in Collegiate Female Athletes  
Anne Bae, ATC, Stony Brook University

Balance Performance Differs Across Females From Different Physical Activity Concentrations  
Emily Hartley, MS, ATC, Old Dominion University

A Decade of Web-Based Injury Surveillance: The Epidemiology of High School Girls' and College Women's Volleyball, 2004/05-2013/14  
Thomas Dompier, PhD, ATC, University of North Carolina at Chapel Hill

**Free Communication Oral Presentations, 12:00pm – 1:15pm**

**Injury and Health Care Considerations in the Tactical Athlete**

Moderator: Tim Mauntel, ATC, Walter Reed National Military Medical Center  
GRBCC, Room 360

12:00pm - 12:15pm

Time-Related Changes in Musculoskeletal, Balance and Physiological Characteristics in Naval Special Warfare Operators

Karen Keenan, PhD, ATC, University of Pittsburgh

12:15pm - 12:30pm

Personal Protective Equipment Diminishes Static and Dynamic Balance in Firefighters

Alexander Csiernik, MS, LAT, ATC, La Grange College

12:30pm - 12:45pm

Impact of Previous Injury on Musculoskeletal and Physiological Characteristics in Naval Special Warfare Operators and Students

Katherine Perlsweig, MS, ATC, CSCS, University of Pittsburgh

12:45pm - 1:00pm

An Examination of the Triple Hop for Distance as a Predictor of Lower Extremity Performance in Firefighter Equipment  
Sean Rogers, LAT, ATC, Indiana State University

1:00pm - 1:15pm

Examination of Sports Nutrition Knowledge and Prevalence of Disordered Eating Among ROTC Cadets  
Spencer Connell, ATC, University of South Carolina

**Free Communication Oral Presentations, 12:15pm – 1:00pm**

**Successful Transition into Clinical Practice**

Moderator: Thomas Bowman, PhD, ATC, Lynchburg College  
GRBCC, Room 370

12:15pm - 12:30pm

Challenges Associated With Transition to Practice of Newly Credentialed Athletic Trainers  
Ashley Thrasher, EdD, LAT, ATC, Western Carolina University

12:30pm - 12:45pm

Exploring Socialization of Athletic Trainers in Emergent Practice Settings in Athletic Training  
Misty Sax, MS, LAT, ATC, Lenoir-Rhyne University

12:45pm - 1:00pm

Transition to Practice for Graduate Assistant Athletic Trainers Providing Medical Care in the Secondary School Setting  
Jessica Kirby, MEd, ATC, LAT, Ball State University

**Free Communication RapidFire Presentations, 12:15pm – 1:15pm**

**Concussions are a Downer: Mental Health After Injury**

Moderator: Tamera Valovich McLeod, PhD, ATC, FNATA, A.T. Still University  
GRBCC, Room 371

A Longitudinal Examination of Perceived Stress and Depressive Symptomology in Concussed and Healthy Collegiate Athletes

Robert Daigle, ATC, South Dakota State University

Influence of Concussion History on Depression, Anxiety and Stress in Collegiate Athletes

Sarah Hontz, MEd, ATC, University of Virginia

The Association of Sport-Related Concussions and Symptoms of Depression in High School Athletes

Allison Schwarz, LAT, UW Health Sports Medicine

The Emotions, Coping and Social Support Perceived by NCAA Division I Athletes During Concussion Recovery

Paige Wells, MS, ATC, Georgia Southern University

No Personality Trait Differences Between Collegiate Student Athletes With and Without a History of Sport-Related Concussion

Erica Beidler, PhD, LAT, ATC, Duquesne University

The Impact of Multiple Sport-Related Concussions on the Health-Related Quality of Life in High school Athletes

Jerod Keene, MS, ATC, University of Wisconsin at Madison

Age-Related Differences on Initial Post-Concussion Measures and One-Month Quality of Life Outcomes

Kristen Phillips, MEd, LAT, ATC, Carolina Family Practice & Sports Medicine

The Impact of Concussion on Health-Related Quality of Life as Measured by the Patient Reported Outcome Measures Information Systems in Adolescent Athletes

Richelle Williams, PhD, ATC, A.T. Still University

**Free Communication Thematic Poster Presentations, 12:15pm – 2:00pm**

**It's All in the Hips**

Moderator: Yum Nguyen , PhD, ATC, High Point University

GRBCC, Room 361

1. Periacetabular Osteotomy for Hip Dysplasia in a Division I Female Water Polo Athlete: A Case Report

Henry Pai, MA, ATC, CATC, San Jose State University

2. Calculation of Resistive Loads for Elastic Resistive Hip Exercises

Tim Uhl, PhD, ATC, FNATA, University of Kentucky

3. Influence of Hip Strength and Activation on Lower Extremity Landing Biomechanics in Female Soccer Players

Emma Zuk, High Point University

4. Influence of Isokinetic Hip Strength Measures on Landing Biomechanics During Double and Single Leg Landings

Connor Whicker, High Point University

5. Plantar Foot Pressures in Those With and Without a Lateral Hip Shift During an Overhead Squat

Erin Lally, ATC, MS, Colorado Mesa University

6. Neuromechanical Differences During a Single-Leg Forward Landing in Females With High and Low Hip Internal Rotation Range of Motion

Jennifer Hogg, MA, ATC, University of North Carolina at Greensboro

7. Electromyography and Ultrasound Imaging Measures of Gluteal Muscle Activity During Nine Exercises

Kyle Murray, MEd, ATC, University of Virginia

8. Muscle Activation Patterns of Lumbo-Pelvic-Hip Complex During Walking Gait Before and After Fatiguing Exercise

Mihyang Chang, MEd, ATC, University of Virginia

9. Treating Patients Reflexively: The Effects of a Novel Approach on Patients Classified With a Grade 1 Hamstring Strain

Lucas Bianco, MS, ATC, CSCS, Georgia Southwestern State University

10. Lower Extremity Muscle Activation Patterns During Running Tasks Between Individuals With and Without a Previous Hamstring Injury

Jessica Mutchler, PhD, LAT, ATC, Georgia Southern University

**Free Communication Oral Presentations, 1:30pm – 2:30pm**

**Influence of Injury on Psychosocial Factors**

Moderator: James Mensch, PhD, ATC, University of South Carolina  
GRBCC, Room 360

1:30pm - 1:45pm

Injuries Are Such a Downer: A Review of Depressive Symptoms Among Collegiate and Professional Athletes

Kristina Amrani, MS, LAT, ATC, Baylor University

1:45pm - 2:00pm

Pain Severity, Pain Interference and Athlete Fear Avoidance are Related to Acute Injury Rehabilitation Time in Athletes

Erica Porter, BSc, CAT(C), Concordia University

2:00pm - 2:15pm

The 6-Month Progression of Pain Catastrophizing in an Acute ACL Population

Kate Jochimsen, MS, LAT, ATC, University of Kentucky

2:15pm - 2:30pm

Fear of Re-Injury Remains High in Adolescent Female Athletes Following Anterior Cruciate Ligament Reconstruction and Full Return to Sport

Rebecca Begalle, PhD, ATC, Illinois State University

**Free Communication RapidFire Presentations, 1:30pm – 3:00pm**

**Case Studies: Pathologies of the Knee and Hip**

Moderator: Barton Anderson, DHSc, ATC, A.T. Still University  
GRBCC, Room 371

Morel-Lavallee Lesion in Collegiate Softball Athlete

M. Kyle Smoot, MD, University of Kentucky

Ganglion Cyst of the Anterior Cruciate Ligament in a 5-year-old Female Gymnast

Sharon Frank, MS, LAT, ATC, Cincinnati Children's Hospital Medical Center

Asymptomatic Bucket Handle Tear in a Professional Soccer Athlete

Kahlia Williams, Florida Gulf Coast University

Returning a Division I Hurdler to Sport After Multiple Knee Ligament Injury

Xavier Thompson, ATC, LAT, University of Kentucky

Non-Traumatic Meniscal Cyst in a Collegiate Distance Runner: Clinical Case Report



Adam Thompson, PhD, LAT, ATC, Indiana Wesleyan University

A Tumor Indicating Fibrodysplasia Found Secondary to an Initial Injury of a Patella Subluxation of the Patients Right Knee

Caitlyn Hart, SCAT, ATC, Newberry High School

Acute Knee Pain in an Interscholastic Football Player

Krystal Williams, Southern Connecticut State University

Simultaneous Bilateral Femoral Stress Reactions in a Healthy Adolescent Female Runner

Erin Krogh, North Dakota State University

Insidious Onset of a Grade III Femoral Stress Fracture in a Division I Male Cross Country Athlete

Allyssa Memmini, ATC, University of Kentucky

**Free Communication Thematic Poster Presentations, 2:15pm – 3:30pm**

**Instrument-Assisted Therapeutic Modalities**

Moderator: Phillip Vardiman, PhD, ATC, Kansas State University

GRBCC, Room 361

1. The Immediate Effects of Graston Technique® on Hamstring Flexibility Compared to a Control  
Sara Boyer, MS, ATC, IU Health Bloomington
2. Compressive Versus Decompressive Soft Tissue Therapy on Acute Hamstring Flexibility and Pain in Male Athletes With Perceived Hamstring Tightness  
Kristen Barger, MS, ATC, Oklahoma State University Center for Health Sciences
3. Instrument-Assisted Soft Tissue Mobilization Graston Technique® Treatment of Dance Injuries  
Joshua Honrado, MS, ATC, Harkness Center for Dance Injuries
4. Massage and Instrument-Assisted Soft Tissue Mobilization Acutely Increase Hamstring Flexibility  
Carolyn Hampton, LAT, ATC, Indiana State University
5. A Comparison of Instrument-Assisted Soft Tissue Mobilization and Dry Cupping and Their Effect on Shoulder Range of Motion  
Christopher Gregory, ATC, Marist College
6. Treatment Outcomes of Myofascial Decompression (Cupping Therapy) on Hamstring Pathology  
Aric Warren, EdD, ATC, Oklahoma State University Center for Health Sciences

**Free Communication Oral Presentations, 2:30pm – 3:30pm**

**Put a Cap on Chronic Knee Pain**

Moderator: Neal Glaviano, PhD, ATC, University of Toledo

**GRBCC, Room 370**

2:30pm - 2:45pm

Clinical Measures and Their Contribution to Dysfunction in Individuals With Patellar Tendinopathy  
Hyunjae Jeon, MS, ATC, University of North Carolina at Charlotte

2:45pm - 3:00pm

Relationships Among Patient-Reported, Demographic and Clinical Baseline Measurements In  
Patellofemoral Pain Patients

Jennifer Earl-Boehm, PhD, ATC, FNATA, University of Wisconsin, Milwaukee

3:00pm - 3:15pm

Lower Extremity Strength, Kinematics and Activation During a Drop Vertical Jump in Individuals With and  
Without Patellofemoral Pain

Andrea Baellow, MEd, ATC, University of Virginia

3:15pm - 3:30pm

Comparison of Lumbopelvic Hip Muscle Activity Between Individuals With and Without Patellofemoral  
Pain

Rahul Katbamna, MEd, ATC, University of Virginia

**Free Communication Oral Presentations, 3:00pm – 4:30pm**

**Acute Injuries of the Ankle and Foot**

Moderator: Phillip Gribble, PhD, ATC, FNATA, University of Kentucky  
GRBCC, Room 360

3:00pm - 3:15pm

A Case of Morel Lavallée Lesion of the Lower Leg: A Case Report

Erin Macaronas, North Dakota State University

3:15pm - 3:30pm

A Proximal Tibial Metaphyseal Stress Fracture in a Collegiate Distance Runner: A Case Report

Parin Majewski, ATC, University of Texas at El Paso

3:30pm - 3:45pm

A Unique Lisfranc Dislocation in a Collegiate Football Player

Jennifer Hyde, MS, ATC, LAT, Ochsner

3:45pm - 4:00pm

Acute Lateral Ankle Pain in an Intercollegiate Volleyball Player

Alexandra Krouch, Southern Connecticut State University

4:00pm - 4:15pm

Syndesmotic (High Ankle) Sprains in a College Football Athlete

Kyle Sellers, Florida Gulf Coast University

4:15pm - 4:30pm

Delayed Onset of Lower Extremity Edema After a Soccer Match

Alex Warne, ATC, LAT, University of Central Florida

**Free Communication Thematic Poster Presentations, 3:45pm – 4:45pm**

**Weeble Wobbles: CAI and Postural Stability**

Moderator: Matthew Hoch, PhD, ATC, Old Dominion University  
GRBCC, Room 361

1. The Difference Between Y Balance Test Scores in a Cohort of Collegiate Athletes With or Without Chronic Ankle Instability  
Bethany Wisthoff, MS, ATC, University of Delaware
2. The Relationship Between Center of Pressure Measures and Reach Distance While Performing the Star Excursion Balance Test in Individuals With and Without Chronic Ankle Instability  
Jupil Ko, PhD, ATC, Northern Arizona University
3. Reliability and Responsiveness of Time-to-Boundary in Those With a History of Lower Extremity Injury  
Patrick McKeon, PhD, ATC, CSCS, Ithaca College
4. Novel Postural Stability Assessments in Individuals With Chronic Ankle Instability Using Engineering Control Theory  
Masafumi Terada, PhD, ATC, Ritsumeikan University
5. Using Control Theory Techniques to Assess Dynamic Ankle Stability in Individuals With Chronic Ankle Instability  
Kristin Morgan, Ritsumeikan University
6. The Effects of Visual Feedback and Ankle Laxity on Dynamic Balance in Trained Ballet Dancers  
Hannah Miller, Appalachian State University

**Free Communication Oral Presentations, 3:45pm – 4:45pm**

**What the Brain Wants, the Knee Does**

Moderator: Abbey Fenwick, PhD, ATC, University of North Carolina at Charlotte  
GRBCC, Room 370

3:45pm - 4:00pm

Immediate Effects of Transcranial Alternating Current Stimulation on Quadriceps Corticospinal Excitability and Voluntary Activation

Ariel Zaleski, MA, LAT, ATC, University of North Carolina at Chapel Hill

4:00pm - 4:15pm

Brain Functional Connectivity of Knee Extension Exercise Differs During External and Internal Foci of Attention

Randy Schmitz, PhD, ATC, FNATA, University of North Carolina at Greensboro

4:15pm – 4:30pm

Altered Cortical Activation Patterns Following Anterior Cruciate Ligament Reconstruction During Joint Loading

Yong Woo An, PhD, ATC, New Mexico State University

4:30pm - 4:45pm

Brain Motor Network Plasticity Associated With Proprioception After Anterior Cruciate Ligament Reconstruction

Dustin Grooms, PhD, ATC, CSCS, Ohio University

## **NATA Foundation Free Communication Poster Presentations**

**George R. Brown Convention Center, Hall C**

**Posters are Displayed: Exhibit Hall:** Tuesday, June 27, 10:00am -5:00pm

Wednesday, June 28, 10:00am –5:00pm

Thursday, June 29, 10:00am -1:00pm

**Authors Present: Tuesday, June 27:** Student Exchange Posters - #150 - #188 - 10:00am -10:30am  
Peer Review Authors-Last Name A thru M -10:30am -11:15am  
Peer Review Authors –Last Name N thru Z, 11:15am -12:00pm

## **NATA Foundation Free Communication Poster Presentations**

**George R. Brown Convention Center, Hall C**

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**Authors Present: Tuesday, June 27:** Student Exchange Posters - #151 - #189 - 10:00am -10:30am  
Peer Review Authors-Last Name A thru M -10:30am -11:15am  
Peer Review Authors –Last Name N thru Z, 11:15am -12:00pm

### **Biomechanical Properties of Head Impacts**

1. Effects of Protective Headgear on Neurocognitive Function and Injury Risk and Rate in Soccer: A Systematic Review

Cody Forbes, Saginaw Valley State University

2. Comparison of Head Impact Frequency and Magnitude in Collegiate Lacrosse Athletes Between In-Season and Postseason Contests

Jose Soto, Lynchburg College

3. Differences in Relative Neck Strength and Time to Peak Torque Among Male and Female Division III Soccer Athletes

Julia Lovely, ATC, Springfield College

4. Differences in Regular Season and Postseason Head Impacts of Women's Soccer Athletes

Elizabeth Oden, Lynchburg College

5. Impact Attenuating Capabilities of An American Football Helmet Across a Partial Season of College Football

Trenton Gould, PhD, ATC, University of Southern Mississippi

6. Analyzing Magnitude and Frequency of Head Impacts in Relation to Impact Location in Collegiate Soccer Athletes

Sarah Coronel, Lynchburg College

7. Intercollegiate Soccer Athlete Head Impacts Across Field Locations

Patrick Sullivan, Lynchburg College

8. The Association Between Cervical Neck Strength and Head Impact Biomechanics in Male and Female Adolescent Hockey Players

Grant Cabell, University of North Carolina at Chapel Hill

### **Chronic Ankle Instability: Impairments and Treatments**

9. Pre-Landing Lower Extremity Kinematic Patterns Among Chronic Ankle Instability Patients, Ankle Sprain Copers and Healthy Controls

S. Jun Son, MS, ATC, LAT, Brigham Young University

10. Ankle Strength Deficits in a Cohort of Collegiate Athletes With Chronic Ankle Instability and Mechanical Laxity

Shannon Mathany, MS, ATC, LAT, University of Delaware

11. Running Mechanics During 1600-Meter Track Runs in Young Adults With and Without Chronic Ankle Instability

Mark Colapietro, MEd, ATC, University of Virginia

12. Examining the Differences in Ligament Laxity Through the Use of an Instrumented Ankle Arthrometer

Gabrielle Stubblefield, University of Evansville

13. Following Changes in Ligament Laxity Through the Healing Phases After an Ankle Sprain

Kathy Liu, PhD, ATC, University of Evansville

14. The Influence of Hip Strength on Landing Kinematics in Individuals With Chronic Ankle Instability

Ryan McCann, MEd, ATC, CSCS, University of Kentucky

15. Effects of Prophylactic Ankle Bracing/Taping Compared to Balance Training in Reducing the Incidence of Acute Lateral Ankle Sprains in Adolescent Athletes: A Systematic Review

Kaylyn Schiemann, Saginaw Valley State University

16. Increased Hip Strength Following a 4-Week Comprehensive Ankle Rehabilitation Program in Persons With Chronic Ankle Instability

Matthew Hoch, PhD, ATC, Old Dominion University

17. Effect of Six Weeks Rehabilitation on Ankle Neuromechanic Patterns in Subjects With Chronic Ankle Instability

Hyunsoo Kim, PhD, ATC, West Chester University

18. Decreased Injury-Related Fear Following a 4-Week Comprehensive Intervention for Those With Chronic Ankle Instability  
Cameron Powden, PhD, ATC, LAT, Indiana State University

**Evaluation and Treatment of Lower Extremity Injuries**

19. The Relationship Between Foot Posture, Dorsiflexion Range of Motion and Lower Extremity Biomechanics During a Drop-Landing Task  
Kathleen Hogan, MSAT, ATC, Old Dominion University

20. The Effects of Athletic Floor Surfaces on Lower Extremity Kinematics During Cutting and Drop Vertical Jump Performance in Female Athletes  
Susan Stevens, EdD, AT, ATC, University of Findlay

21. Strength Training Progression Effectiveness Using a Load Cell  
Kelsey Picha, MS, ATC, University of Kentucky

22. The Use of the Lever Sign for the Diagnosis of Anterior Cruciate Ligament Ruptures: Preliminary Results for Diagnostic Accuracy  
Christine Nelson, MS, ATC, A.T. Still University

23. The Effectiveness of the Elmslie-Trillat Procedure Versus Lateral Release in Patients With Patellar Instability: A Systematic Review  
Michael Musial, Southern Connecticut State University

**\*Master's Poster Award Finalist\***

24. Clinical Presentations at the Point-of-Care of Common Sport-Related Knee Injuries: A Report From the Athletic Training Practice-Based Research Network  
Matthew Hussey, ATC, A.T. Still University

**\*Doctoral Poster Award Finalist\***

25. A Randomized Controlled Trial Investigating the Effects of Ankle Rehabilitation Programs on Self-Reported Outcomes in Patients With Chronic Ankle Instability  
Mary Cain, MS, ATC, Georgia State University

**\*Doctoral Poster Award Finalist\***

26. Landing Biomechanics Influence Physiological Markers of Muscle Tissue Loading in Response to High-Intensity Exercise  
Barnett Frank, PhD, ATC, The University of North Carolina at Chapel Hill

**\*Doctoral Poster Award Finalist\***

27. Sensory Disconnect and Force Control Deficits Following Hamstring Strain Injuries  
Andrea DiTrani Lobacz, MS, ATC, Neumann University

**\*Undergraduate Poster Award Finalist\***

28. Landing Energetics and Trunk Position for Patellofemoral Pain Patients Can Differ Based on Quadriceps Central Activation Ratio  
Jordan Read, Brigham Young University

29. Insidious Talus Fracture in a Collegiate Football Player  
Robert Casmus, MS, LAT, ATC, Catawba College

### **Concussion Knowledge**

30. The Influence of Prior Concussion History on Teachers' Knowledge and Confidence in the Secondary School Setting  
Margaret Ha, ATC, California State University at Fullerton

31. The Influence of Institutional Stakeholders on Division I Student Athlete Concussion Reporting Behaviors  
Julianne Schmidt, PhD, ATC, University of Georgia

32. Influence of Prior Concussion Education on Club Swim Coaches' Perceived Importance, Knowledge and Confidence Regarding Sport-Related Concussion  
Katrina Ritter, ATC, A. T. Still University

33. Sport-Related Concussion Knowledge and Reporting Behaviors Among Collegiate Club Sport Athletes  
Abigail Bretzin, MS, ATC, Michigan State University

### **Concussion Test Efficacy**

34. Measurement Properties of the Balance Error Scoring System Component of the C3 Logix Concussion Assessment Battery  
Katelyn Metzger, ATC, New Hampshire Musculoskeletal Institute

35. Validity and Reliability of Select Neurocognitive Tests of the C3 Logix Concussion Assessment Battery  
Madeline Simon, ATC, Northwestern Medicine

36. Repeat Administration of the SWAY Balance Mobile Application Elicits a Practice Effect  
Erika Lee, Ohio University

37. Are Institutionally-Based Normative Values for ImPACT Scores Different Than Manufacturer-Provided Normative Values?  
Samuel Walton, MEd, ATC, University of Virginia

38. Evaluation of Domain and Factor Structure of CNS Vital Signs  
Cassie Ford, PhD, University of North Carolina at Chapel Hill

39. Test-Retest Reliability of a Computerized Measure of Postural Stability in High School Athletes  
Nicholas Erdman, MS, ATC, University of Virginia

40. A Comparison of King-Devick Test Baseline Scores Between English-Speaking and Spanish-Speaking High School Athletes

Nathan D'Amico, MS, ATC, University of Arkansas

41. Test-Retest Reliability and the Effects of Exercise on the King-Devick Test

Ryan Eddy, MEd, ATC, University of Virginia

### **Factors Influencing Concussion Baselines**

42. Influence of Self-Reported Fatigue and Sex on Concussion Baseline Assessment Scores

Patricia Combs, MEd, ATC, University of North Carolina at Chapel Hill

43. Association Between Baseline Symptom Severity and Sensory Organization Function in College Athletes With and Without a Concussion History

Christina Vander Vegt, MS, ATC, University of North Carolina at Chapel Hill

44. The Reliability and Concurrent Validity of the kBESS

Catherine Donahue, MEd, ATC, University of Virginia

45. The Reliability of Dynamic Visual Acuity Testing in Normal, Healthy Young Adults

Andrea Cripps, PhD, ATC, Bowling Green State University

46. Caffeine Alters Reaction Time of ImpACT, But Not the King-Devick Test

Noelle Selkow, PhD, ATC, Ohio University

47. Head Impact Exposures and Neurologic Function in College Football and Soccer Players

Chelsea Best, MS, LAT, ATC, University of Delaware

48. The Effect of Sex and History of Concussion on King-Devick Baseline Performance

Ryan Moran, PhD, LAT, ATC, North Dakota State University

49. C3 Logix and Measuring Stick Drop Test Correlation of Clinical Reaction Times and Predictors of Concussion

Tony Boucher, PhD, PT, ATC, Texas A&M University

### **Post-Concussion Performance**

50. Functional Reaction Time Following Concussion

Robert Lynall, PhD, ATC, University of Georgia

51. The Relationship Between Sway Balance and Self-Reported Symptoms Following a Sports-Related Concussion

Tiffany McGuffin, MS, ATC, LAT, Ben Hogan Sports Medicine Concussion Center

52. Association Between Symptom Severity and Number of Symptoms Post-Injury and Symptom Resolution and Return to Participation Following Concussion

Steven Malvasi, ATC, Keller Army Community Hospital

53. Influence of Self-Reported Learning Disabilities, Dyslexia and Attention Deficit Hyperactivity Disorder on Symptom Presentation at Baseline and Post-Concussion



Lindsey Shepherd, MS, ATC, CSCS, A.T. Still University

54. Comparison of Concussion Symptoms and Injury-Related Characteristics in Student Athletes Based on Time to Report to Clinic

Stephen Bunt, EdD, ATC, LAT, Texas Health Ben Hogan Sports Medicine

55. Clinical Postural Control Assessments and Health-Related Quality of Life in Individuals with a History of Concussion

Nicole Curry, ATC, Old Dominion University

### **Cryotherapy Treatments**

56. A Single Bout of Cryotherapy Does Not Alter the Transcriptome or Metabolome of Human Skeletal Muscle

Dylan Sarver, ATC, University of Michigan

57. Effect of Cold Water Immersion on Metabolic Rate in Humans

Austin Greenwood, University of Wisconsin-La Crosse

58. A Comparison of Cryotherapy and Heat Therapy and Their Effect on Muscle Recovery Following Exercise

Harry Brenkert, ATC, Marist College

59. Effect of Cold Water Immersion or Contrast Water Therapy On Muscle Soreness After Exercise

Christine Lauber, EdD, LAT, ATC, University of Indianapolis

### **General Medical Conditions: A Case Series**

60. Testicular Torsion in a Collegiate Male Soccer Player

Lora Fuhrmann, SCAT, AT, University of South Carolina

61. Acute Left Cerebrovascular Accident in Division I Collegiate Football Player: A Case Report

Amanda DeKanick, Texas A&M University

62. Surgical Treatment of Wolff-Parkinson-White Syndrome in a Collegiate Track Athlete

Dana Friske, LAT, ATC, University of Utah

63. Bilateral Pulmonary Emboli in a Collegiate Softball Payer: A Case Report

Kassiann Landin, MS, ATC, CKTP, University of Texas at El Paso

64. Multiple Kidney Lacerations In a Male Collegiate Football Player

Jonathan McMurtrie, LAT, ATC, University of Kentucky

65. Cystic Gastrointestinal Stromal Tumor in a Collegiate Athlete

Alan Heller, LAT, ATC, Rowan University

66. Splenic Rupture in Division III Football Player with Undiagnosed Mononucleosis

Margaret Pelton, LAT, ATC, Centre College

67. Primary Cortisol Resistance in a Division III Female Basketball Athlete  
Autumn Overhiser, LAT, ATC, University of Kentucky

68. Management of a Collegiate Softball Player With Congenital Adrenal Hyperplasia: A Case Study  
S. Andrew Cage, MEd, ATC, LAT, University of Texas at Tyler

69. Diagnosis and Management of Acute Posterior Multifocal Placoid Pigment Epitheliopathy in a Collegiate Baseball Player: A Case Study  
Tiffany Fiesler, University of Texas at Tyler

70. Competitive Anxiety Leading to Recurrent Vomiting in a Middle School Football Player  
Bianca Grimshaw, LAT, ATC, University of Kentucky

71. Idiopathic Thrombocytopenic Purpura in a Male High School Basketball Player  
Michael Lynch, University of Indianapolis

72. Graves' Disease in a 17-year-old Football Player  
Madison Foust, Louisiana State University

73. Malaria - Treatment and Athletic Performance Considerations in a Division I Track and Field Athlete  
Shane Fitzpatrick, MS, ATC, NASM-CPT, University of Texas at El Paso

74. Lipdystrophy and Diabetes in Women's Collegiate Soccer Player  
Katherine Wall, Florida Gulf Cost University

75. Exertional Rhabdomyolysis and Return to Sport in a NAIA Collegiate Men's Soccer Athlete  
Ariel Allman, ATC, CSCS, University of Kentucky

76. Prevalence of Exercise-Induced Bronchoconstriction in Collegiate Women's Basketball  
Molly Jennings, MA, ATC, LAT, Marist College

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77. Epidemiology of Sudden Cardiac Death in American Youth Sports  
Brad Endres, ATC, CSCS, Korey Stringer Institute

**Hydrate the Healthy Way**

78. Effectiveness of a Hydration Educational Intervention on Semi-Professional Female Tackle Football Players  
Rebecca Lopez, PhD, ATC, CSCS, University of South Florida

79. Dietary Sodium Intake and Sweat Sodium Losses in Division II Collegiate Football Players During Pre-Season Training Camp  
Emily Bradley, LAT, ATC, West Chester University

80. The Relationship of Thirst to Hydration Markers Before and After Exercise

Lesley Vandermark, PhD, ATC, PES, University of Central Arkansas

**Implications of Sports Participation**

81. The Association of Competition Volume, Club Sports and Sport Specialization With Previous Lower Extremity Injury in High School Athletes

Eric Post, MS, ATC, University of Wisconsin at Madison

82. Validity of Twelve Physical Fundamental Movement Skills in Assessing Physical Literacy

Richard DeMont, PhD, ATC, Concordia University

83. Classroom Brain-Breaks Improve Neuromuscular Control and Physical Fitness Measures in Urban Youth

Julie Burland, MS, ATC, CSCS, University of Connecticut

84. Sport Participation Characteristics Between Suburban and Rural High School Athletes

David Bell, PhD, ATC, University of Wisconsin at Madison

85. A Comparison of the Impact of Sport Specialization on Lower Extremity Injury Rates in Male and Female Adolescent Athletes

Timothy McGuine, PhD, ATC, University of Wisconsin at Madison

86. Effect of Preoperative Sport Participation on Postoperative Outcomes in Patients Undergoing Knee Cartilage Surgery

Caitlin Whale Conley, MS, LAT, ATC, University of Kentucky

87. History of Major Lower Extremity Injury Associated With Subsequent Injury in Collegiate Club Sport Athletes

Christine Samson, MS, ATC, University of Georgia

88. College Baseball Pitchers Have Increased Glenohumeral External Rotation and Total-Arc Range of Motion Compared to Non-Pitchers

Samuel Wilkins, ATC, University of Nebraska Omaha

**\*Master's Poster Award Finalist\***

89. The Epidemiology of Overuse Conditions in Youth Football and High School Football

Kevin Morris, MS, ATC, Ohio University

**\*Undergraduate Poster Award Finalist\***

90. Effectiveness of Preparticipation Physical Exams in Screening for Mental Health Disorders in Secondary School Athletes

Kelcey Holcomb, LAT, ATC, Moravian College

**Injuries of the Upper Extremity Complex**

91. UCL Sprain With Associated Radial Head Fracture in a Collegiate Softball Player

Mekaela Byker, Lee University

92. Unilateral Rhabdomyolysis of the Forearm in a Collegiate Tennis Player: A Case Study  
Brandon Warner, MEd, AT, ATC, University of Texas at Tyler
93. Posteriorly Displaced Mid-Body Scapular Fracture in a Football Player  
Lauren Allas, Slippery Rock University
94. Conservative and Surgical Treatment of an Acute Traumatic Extensor Carpi Ulnaris Tendon Subluxation in a Collegiate Tennis Player: A Case Report  
Jennifer Werner, MS, ATC, University of Michigan
95. Distal Humeral Fracture and Radial Nerve Palsy in a High School Football Player  
Courtney Cox, Texas Wesleyan University
96. Nerve Pain Following Surgical Procedures in College Bowling Athlete  
Keelan Mullins-Zugelder, Florida Gulf Coast University
97. Conservative Treatment of a Posterior Labrum Tear in a College Football Athlete  
Maia Brooks, Florida Gulf Coast University
98. Latissimus Dorsi Tear With Surgical Repair in a Professional Baseball Pitcher: A Case Report  
Emily Skipper, Lee University
99. Cervical Spinal Stenosis Presenting as Shoulder Pain and Upper Extremity Paresthesia in an Adolescent Athlete  
Emma Gay, ATC, University of Kentucky
100. Percutaneous Ultrasonic Tenotomy of the Common Extensor Tendon Origin  
Kile Skrobacki, Florida Gulf Coast University
101. Non Ossifying Fibroma in a High School Athlete  
Cody Begley, LAT, ATC, University of Kentucky
102. A Unique Acromioclavicular Joint Separation in a Collegiate Basketball Player  
Christopher Welch Bacon, ATC, University of North Dakota
103. Avulsed Upper Trapezius from Distal Clavicle in a Collegiate Football Player  
Kallie Schmit, North Dakota State University
104. Enchondromatosis in the Hand of a Division I Lacrosse Athlete  
Emily Nowicke, MA, ATC, OTC, Steadman Clinic, Steadman Philippon Research Institute
105. First Carpometacarpal Joint Dislocation in a Division I Football Athlete  
Stephanie Snow, MS, LAT, ATC, University of Utah

**Instrumentation Reliability/Validity**

106. Reliability of Kinect-Based Markerless Motion Capture During Lower Extremity Tasks  
Ashley Marshall, MEd, ATC, University of Virginia

107. Reliability of an Ankle Arthrometer With External Strain Gauge for Quantifying Plantar Flexor Stiffness

Maurice McAlister, ATC, Appalachian State University

108. A Biomechanically-Based Observational Tennis Serve Analysis Method is Reliable and Valid

Natalie Myers, MS, ATC, PES, University of Kentucky

109. Measuring Humeral Torsion with Ultrasound Using a One-Person Technique Is a Reliable and Valid Technique

Daniel Hannah, MA, LAT, ATC, Duquesne University

110. Intrarater and Interrater Reliability of Diagnostic Ultrasound Measurements

Sarah Daniels, ATC, LAT, Old Dominion University

111. Factor Analysis of the KOOS Does Not Indicate the Existence of Five Unique Subscales

Jennifer Howard, PhD, LAT, ATC, Appalachian State University

112. Landing Mechanics During a Drop Vertical Jump (DVJ) Can Be Reliably Captured Across a Sports Season Using 2-Dimensional (2D) Motion Capture

Jennifer Medina McKeon, PhD, ATC, CSCS, Ithaca College

113. Correlations Between Arthrometer-Measured Plantarflexor Stiffness, Ligamentous Laxity and Range-of-Motion at the Ankle

Alan Needle, PhD, ATC, CSCS, Appalachian State University

### **Kinesio Tape**

114. The Effect of Kinesio Tape® on Intramuscular Tissue Temperature Change During a 20-Minute Cryotherapy Application

Michael McCrone, ATC, LAT, CKTP, North Dakota State University

115. Kinesio Tex Tape Does Not Improve Sensorimotor Function in Participants With Chronic Ankle Instability

Jason Cline, MS, ATC, University of North Carolina at Charlotte

116. Alpha Motoneuron Excitability of the Soleus Following Application of Kinesiology Tape to the Calf

Leif Madsen, MS, ATC, Indiana University

117. Efficacy of Kinesiology Taping as an Adjunct Treatment of Shoulder Impingement Syndrome: A Systematic Review

Caroline Fitch, AT, ATC, Steadman Clinic, Steadman Philippon Research Institute

### **Knowledge and Perceptions in Athletic Training**

118. Student Athlete Knowledge of Athletic Trainers' Scope of Practice

Jessica Pearson, Georgia Southern University

119. Is There a Correlation Between Preceptor Modeling of Spiritual Therapeutics and Athletic Training Student Actions?

Mike Ediger, Whitworth University

120. Perceptions of Athletic Trainer Abilities to Perform Skills Outlined in the BOC Practice Analysis

Mark Knoblauch, PhD, LAT, ATC, University of Houston

121. Athletic Trainers' Perceptions and Experiences of Withholding Athletes From Participation

Melissa Kay, MS, LAT, ATC, University of North Carolina at Chapel Hill

122. Roles and Responsibilities of Individuals Within the Academic Setting Who Hold the Doctor of Athletic Training Degree

Stephanie Clines, MS, LAT, ATC, Old Dominion University

123. Employability of Individuals in Academe Who Hold the Doctor of Athletic Training Degree

Bonnie Van Lunen, PhD, ATC, FNATA, Old Dominion University

124. Changes in Knowledge, Skills and Integration of the Core Competencies During Post-Professional Education

Barton Anderson, DHSc, AT, ATC, A.T. Still University

125. Characteristics of Positive Clinical Experiences in Post-Professional Education

Gary Cohen, MS, AT, ATC, A.T. Still University

126. Current Preceptors Have Confusion and Uncertainty Regarding Athletic Training Degree Level Transition

David Boyd, MS, LAT, ATC, Indiana State University

127. The Perception of Trust Between Athletic Trainers and Musical Performing Artists

Jenna Chinburg, MA, ATC, San Jose State University

**\*Undergraduate Poster Award Finalist\***

128. Attractors to Faculty Positions Within Higher Education Institutions for Women in Athletic Training

Leah Sampson, University of Connecticut

**Low Level Laser Therapy Modalities**

129. Electrical Point Stimulation on Myofascial Trigger Points in the Upper Back and Neck Muscles

Blaine Long, PhD, AT, ATC, Central Michigan University

130. Effects of Neuromuscular Electrical Stimulation Frequency on Markers of Skeletal Muscle Growth in Humans

Joni Mettler, PhD, ATC, CSCS, Texas State University

131. The Effect of Multipath Current Distribution on NMES-induced Torque Production

Cody Bremner, PhD, LAT, ATC, Southern Utah University

132. The Effect of Low-Level Laser Therapy on Delayed Onset Muscle Soreness When Delivered Pre- and Post-Eccentric Exercise

Lisa Custer, PhD, ATC, Kent State University

133. Athletes' Perceived Confidence to Return to Sport Pre- and Post- Sequential Pulse Compression: A Practice-Based Assessment

Kelly Brock, LAT, ATC, Indiana State University

134. Pain Reduction and Increased Function in Patients With Low Back Pain Treated With a Low Level Laser: A Stratified Randomized, Blinded, Placebo Controlled Trial

Kelly Lumpkin, PhD, ATC, FMSC, Lee University

135. The Effects of ThermoStim Instrument-Assisted Soft Tissue Mobilization and Superficial Heat on Range of Motion of the Hamstrings and Perceived Patient Comfort

Heather Bates, MS, LAT, ATC, Valley City State University

#### **Myofascial Release and Stretching on Flexibility**

136. The Effects of Myofascial Release on Ankle Range of Motion and Hamstring Flexibility

Kacey Carter, ATC, Marist College

137. The Acute Effects of Different Foam Rolling Timing Durations on Hamstring Flexibility

Chloe Kipnis, MS, LAT, ATC, Marlborough School

138. The Effect of Deep Oscillation Therapy on Hamstring Flexibility

Ethan Roberts, LAT, ATC, Indiana State University

139. The Immediate Effects of Hold-Relax Stretching on Hamstring Flexibility Compared to Control

Jessica Novack, MS, ATC, Indiana University

140. Acute Static or PNF Stretching Does Not Decrease Cramp Susceptibility in Cramp-Prone Humans

Kevin Miller, PhD, AT, ATC, Central Michigan University

#### **Therapeutic Heat Applications**

141. The Effects of Heat on Ligament Laxity of the Ankle in Healthy Individuals

Stacey Chen, University of Evansville

142. Immersion Ultrasound Treatment: Should Intensity Be Increased for Therapeutic Heating?

Kara Gange, PhD, ATC, LAT, North Dakota State University

143. A Comparison of Blood Flow Changes in Tissues Treated with Therapeutic Ultrasound and Neuro-Muscular Electrical Stimulation

Ryanne McDaniel, MS, LAT, ATC, St. James Healthcare

144. The Effect of Wavelength Properties and Thermal Gradient of Various Thermal Modalities on Distal Quadriceps Intramuscular Temperature

Cynthia Trowbridge, PhD, ATC, LAT, University of Texas at Arlington

### **Treat the Heat**

145. The Effect of Microclimates on Assessing Risk for Thermal Stress During Athletic Participation in Hawaii

Marissa Sumida, ATC, University of Hawaii, Manoa

146. Sex-Based Comparison of Exertional Heat Stroke Incidence in a Warm-Weather Road Race

Luke Belval, MS, ATC, CSCS, University of Connecticut

147. Cold Water Immersion in the Treatment of Exertional Heat Stroke Remains the Gold Standard at the Falmouth Road Race

Rachel Katch, MS, LAT, ATC, University of Connecticut

148. Cooling Rates of Hyperthermic Humans Wearing American Football Uniforms When Cold-Water Immersion is Delayed

Grace Katt, Central Michigan University

### **\*Master's Poster Award Finalist\***

149. Implementation of Wet Bulb Globe Temperature Policies in Secondary School Athletics

Alexandra Finn, ATC, NREMT, University of Connecticut

### **\*Doctoral Poster Award Finalist\***

150. Thermoregulatory and Circulating Stress Responses to an Intermittent Exercise-Heat Exposure Protocol to Sustain Heat Acclimation Adaptations

J. Luke Pryor, PhD, ATC, CSCS, California State University - Fresno

### **Student Exchange Track Presentations**

151. Effect of Pectoralis Minor Stretching on Internal and External Rotation in Collegiate Baseball Players  
Trev Muth, LAT, ATC, Central Washington University

152. The Effects of Kinesio® Tape Applied to Forward Shoulder Posture as Observed and Quantified by Diagnostic Ultrasound

Taylor Ashcraft, ATC, LAT, CKTP, North Dakota State University

153. The Reliability of Measures of the Width of the Medial Elbow Joint Space Using Sonography

Andrew DeMoss, ATC, Marshall University

154. Does Fatigue of the Flexor Pronator Mass Affect Medial Elbow Stability During a Valgus Stress Test

Nathaniel Millard, ATC, Marshall University

155. A Retrospective Study of the Effectiveness of a Corrective Exercise Program for Movement Dysfunction in High School Football Athletes

Mario Venezio, Seton Hall University



156. Rate of Temperature Rise and Decay With 3-MHz Therapeutic Ultrasound Using Different Intensities  
Jung Ha Lee, Weber State University
157. Effect of Ferritin on Circulating Hemoglobin in Division I Cross Country Runners  
Joseph Ferguson, Weber State University
158. Accuracy of Bioelectrical Impedance Device Measurements of Body Composition as Compared to Skinfold  
Alicia Fish, Seton Hall University
159. Detecting Movement Errors in Chronic Ankle Instability Patients Using Fusionetics  
Julie Harriss, LAT, ATC, University of North Carolina at Chapel Hill
160. Is the Thermostim an Effective Heating and Cooling Modality?  
Danvirg Breton, Weber State University
161. The Effects on Hamstring Range of Motion Using Instrumented-Assisted Soft Tissue Mobilization  
Lindsey Knapp, Missouri State University
162. Voodoo Band Increases Perception of Flexibility  
K Tivemer, Missouri State University
163. Loading Rates Do Not Differ Between Hamstring and Patellar Tendon Graft Types During Walking Gait Following Anterior Cruciate Ligament Reconstruction  
Christopher Johnston, University of North Carolina at Chapel Hill
164. Comparison of Gait Kinematics and Kinetics Between ACL Reconstruction Graft Types  
Jonathan Goodwin, University of North Carolina at Chapel Hill
165. Reliability and Utility of Acceleration Plethysmograms From Noninvasive Finger Arterial Pressure Monitoring After Concussion  
Reginald Richardson, Seton Hall University
166. Outcomes of a Biphasic, Clinical Outcome-Based Anterior Cruciate Ligament Reconstruction Program  
Karen Kline, ATC, Mountain River Physical Therapy
167. Movement Profile Influences Biomechanical Resilience to High Training Loads  
Daniel Womble, The University of Alabama
168. Effects of a Five-Week Supervised Core Training Program on Core Endurance, Dynamic Balance and Static Balance in Subjects With Chronic Ankle Instability (CAI)  
Kendra Gilmore, Weber State University
169. Comparison of the Tongue Blade Test to Ultrasound in Identifying Mandibular Fractures  
Tyler Schwartz, Grand Valley State University

170. Comparative Values of Post-Concussive Assessments: Baseline Data vs. Normative Data, and the Effects of a Valid Baseline: A Systematic Review  
Hannah Gray, Grand Valley State University
171. Does Oculomotor Therapy Reduce Symptoms and Time Loss From Sport in Athletes Who Sustained a Concussion?  
Kayla Schaunaman, South Dakota State University
172. Effectiveness of Short-Term and Long-Term Therapeutic Interventions on Scapular Kinematics and Disability in Individuals With Subacromial Impingement: A Systematic Review  
Katsumi Takeno, MS, AT, ATC, University of Toledo
173. The Effects of High Intensity Warm-ups on Athletes With Diagnosed Exercise Induced Asthma: A Critically Appraised Topic  
Emily Nelson, Duquesne University
174. Effect of Serum Electrolyte Levels on Exercise Associated Muscle Cramps: A Critically Appraised Topic  
Marissa Pazik, Duquesne University
175. Effectiveness of Vestibular Rehabilitation Therapy for Treatment of Concussed Adolescents with Persistent Symptoms of Dizziness and Imbalance  
Kyoungyoun Park, Universtiy of North Carolina Greensboro
176. Rest and Concussion Recover. What is the Best Solution?  
Thomas Ksiazek, South Dakota State University
177. Interval Cryotherapy Has a Positive Effect on Open Kinetic Chain Activities in Adult Males: A Critically Appraised Topic  
Margaret Oberst, Duquesne University
178. Perceived Muscle Soreness Is Improved By Post Exercise Compression Garments: A Critically Appraised Topic  
Shane Milford, Duquesne University
179. A Qualitative Study of Perceived Barriers for Adopting the New Clinical Guidelines for Appropriate Care of the Spine Injured Athlete  
Nicole Sgherza, Seton Hall University
180. Certified Athletic Trainers' Use of Cervical Testing to Differentiate Symptomology Following a Suspected Concussion  
Kelly Cheever, MS, ATC, Temple University
181. Student Motives for Pursuing a Doctor of Athletic Training Degree  
Evan Mulder, LAT, ATC, Aurora Health Care
182. Swimming to Live: A Case Study of a Collegiate Swimmer with Cystic Fibrosis  
Nicole Koniarz, Indiana State University

183. National Study on High School Athletic Practice/Event Emergency Action Plans (EAP)  
Micah Stall, East Stroudsburg University

184. Interprofessional Education in CAATE Accredited Athletic Training Programs  
Sarah Wright, Seton Hall University

185. Knowledge and Opinion of Athletic Training Degree Change  
Cameron Deckett, Missouri State University

186. Improvement Needed in Collegiate Athlete Dietary Supplement Knowledge  
Julia Roundtree, ATC, Missouri State University

187. Training Modifications Related to Injury Incidence in Collegiate Distance Runners  
Nicolas Merritt, Indiana State University

188. Descriptive Analysis of Injuries Sustained by Wildland Firefighters  
Taylor Purchio, University of Montana

189. Assessment of Concussion Knowledge in Youth Sports Participants and Their Parents  
Samantha Riordan, University of Montana