

## FREE COMMUNICATION POSTER PRESENTATIONS

### **Ankle, (I, II, IV)**

**P-1-** Altered Postural Control in Dysfunctional Breathers With a History of Lateral Ankle Sprain  
*Masafumi Terada, PhD, ATC, Ritsumeikan University*

**P-2-** Clinical Evaluation Findings in Patients Diagnosed With Deltoid Ligament Ankle Sprains: A Report From the Athletic Training Practice-Based Research Network  
*Haley Toohill, MS, ATC, A.T. Still University*

**P-3-** Talar Cartilage Deformation and Spatiotemporal Gait Patterns in Individuals With and Without Chronic Ankle Instability  
*Kyle Kosik, PhD, ATC, University of Kentucky*

**P-4-** Predicting Recovery From Midportion Achilles Tendinopathy: More Than Just Symptomatology  
*Shawn Hanlon, MS, ATC, CSCS, University of Delaware*

**P-5-** Intra- and Inter-Rater Reliability of Novice Clinician Users of Diagnostic Ultrasound to Assess Anterior Talofibular Ankle Ligament Length  
*Jacqueline Gutierrez, ATC, University of Nebraska at Omaha*

**P-6-** Dynamic Balance Performance is not Associated With Self-reported Function in Young-adults With Chronic Ankle Instability  
*John Goetschius, PhD, ATC, James Madison University*

### **Concussion (I, II, IV)**

**P-7-** Amounts and Sources of Parental Stress are Highly Variable Following Pediatric Concussion  
*Elizabeth Teel, PhD, McGill University*

**P-8-** Attitudes of Headgear Safety Among NCAA Women's Lacrosse Stakeholders  
*Meredith Kneavel, PhD, LaSalle University*

**P-9-** Basilar-Type Migraines With Coma in an Adolescent Female Basketball Player A Case Study  
*Ansley Swann, ATC, University of Kentucky*

**P-10-** Collegiate Athletes' Anxiety-Related Concussion Perceptions  
*Erica Beidler, PhD, ATC, Duquesne University*

**P-11-** Concussion Knowledge and Attitudes in University Students Studying Physical Education and Health Sciences  
*Brice Anderson, MSAT, LAT, ATC, Idaho State University*

**P-12-** Concussion Knowledge of Parents of Youth Athletes  
*Priyanka Mitta, Duquesne University*

**P-13-** Concussion Modifiers Associated With Prolonged Recovery of Sport Concussion  
*Jasmine Monge, University of Virginia*

**P-14-** Examining the Association Between the Brief Sensation Seeking Scale and Head Impact Exposure in Collegiate Football Players  
*Jeremy Ross, ATC, Keller Army Community Hospital*

**P-15-** Factors Associated With Increased Concussion Knowledge in Youth Athletes  
*Ashley Evans, Duquesne University*

**P-16-** Lived Experiences of Student-Athletes Following Multiple Concussions: A Qualitative Exploration  
*Andrea Cripps, PhD, ATC, Bowling Green State University*

**P-17-** You're the Expert! Collegiate Coaches' Perceptions of the Athletic Trainer's Role Regarding Concussion  
*Meredith Madden, EdD, LAT, ATC, University of Southern Maine*

**P-18-** On-Field Characteristics That Influence Head Impact Magnitude in Youth Tackle Football  
*Rachel Le, ATC, University of Georgia*

### **Epidemiology, (I, III)**

**P-19-** Epidemiology of Emergency Medical Services Activations for Sport-Related Injuries  
*Rebecca Hirschhorn, PhD, ATC, NRAEMT, Louisiana State University*

**P-20-** Prevalence of Dysfunctional Breathing Patterns in Youth Female Athletes  
*Yuka Shimozawa, MS, ATC, Ritsumeikan University*

**P-21-** High School Sport Specialization and Young Adult Physical Literacy and Physical Activity  
*Chloe McKay, LAT, ATC, University of Kentucky*

**P-22-** The Effect of Concussion History on Lower Extremity Injury Risk in High School and Collegiate Athletes: A Systematic Review and Meta-Analysis  
*Vanessa Ramirez, MSAT, Old Dominion University*

**P-23-** Digital and Musculoskeletal Health Literacy of Collegiate Student-Athletes  
*Taylor Niles, ATC, University of South Carolina*

### **General Medicine, (I, II, III, IV)**

**P-24-** Examination of Eating Disorder and Depression Risk Across Collegiate Student-Athletes  
*Samantha Weber, PhD, SCAT, ATC, University of South Carolina*

**P-25-** Bowel Intussusception in a Collegiate Basketball Player  
*Melissa Long, EdD, LAT, ATC, Abilene Christian University*

**P-26-** POTS Diagnosis and Treatment in a Collegiate Diver  
*Alycia Kingcade, ATC, Liberty University*

**P-27-** Stability of Factors Associated With Well-Being Across Decades of Life in Former National Football League Players  
*Samuel R. Walton, PhD, LAT, ATC, University of North Carolina at Chapel Hill*

**P-28-** Treatment With Tarp Assisted Cooling With Oscillations Compared to Cold Water Immersion Following Exertional Hyperthermia  
*Jenessa Richins, Weber State University*

**P-29-** Vigorous Water Stirring Does Not Improve Cold Water Immersion Cooling Rate  
*Keiona Nance, University at Buffalo*

**P-30-** Clostridium Difficile Infection With Gastroesophageal and Immunological Complications in a Female Division I Collegiate Soccer Player: Level 3 Exploration CASE Study  
*Allison Newsome, ATC, University of Central Florida*

**P-31-** Examination of Eating Disorder Risk Among Collegiate Student-Athletes  
*Nancy Uriegas, ATC, SCAT, University of South Carolina*

**P-32-** Survey of Running Volume, Behaviors and Motives During the COVID-19 Pandemic  
*Alexandra DeJong, MEd, ATC, University of Virginia*

**Healthcare Administration and Professional Development, (I, II, V)**

**P-33-** A Parental Perspective of the Work-Life Interface of College Athletic Trainers: A Descriptive Qualitative Design  
*Alexandrya Cairns, ATC, EMT-B, University of Connecticut*

**P-34-** Athletic Trainers' Perceptions and Frequency of Use of Health Care Core Competencies  
*Daniel Waterman, LAT, ATC, Indiana State University*

**P-35-** Athletic Training Specialty Certifications: Athletic Trainers' Perception and Knowledge  
*Michael Hudson, PhD, LAT, ATC, Missouri State University*

**P-36-** Athletic Training Students' Knowledge and Attitudes of Transgender Athletes  
*Jordan Carmosino, PhD, AT, ATC, Rocky Mountain University*

**P-37-** College/University Independent Medical Care in the COVID-19 Era  
*Benjamin Colletti, LAT, ATC, Indiana State University*

**P-38-** Documentation Behaviors of Athletic Trainers Employed in College/University Clinical  
*Sara Nottingham, EdD, LAT, ATC, University of New Mexico*

**P-39-** Employment Models of Athletic Trainers in Secondary Schools With Title I Support  
*Erica Filep, MEd, LAT, ATC, University of Connecticut*

- P-40-** Hiring Patterns Among Collegiate Athletic Trainers in Leadership Positions  
*Shaniece Jackson, MS, LAT, ATC, Florida International University*
- P-41-** Incorporating the Social Determinants of Health in Health Care Delivery Among Secondary School Athletic Trainers  
*Matthew Drescher, DAT, LAT, ATC, Indiana State University*
- P-42-** Interprofessional and Collaborative Practice for Athletic Trainers in the Secondary School Setting  
*John Meskimen, ATC, Indiana State University*
- P-43-** Job Satisfaction of Athletic Trainers' During the COVID-19 Pandemic  
*Elizabeth Neil, PhD, LAT, ATC, Temple University*
- P-44-** Locus of Control in Athletic Training  
*Brittany James, ATC, North Central College*
- P-45-** Mindfulness Based Stress Reduction as an Intervention for Musculoskeletal Pain: A Systematic Review  
*Elizabeth Cruze, MS, ATC, Community Health Network*
- P-46-** Perspectives of Structured Policies and Organization as Ways to Improve Work-Life Balance: A Critically Appraised Topic  
*Emily Tran, University of Central Florida*
- P-47-** Primary Mental Health Resources Utilized by Student-Athletes as Compared to Their Non-Athlete Peers  
*Ashley Gray, DAT, LAT, ATC, Moravian College*
- P-48-** Secondary School Athletic Trainers' Implementation of Patient Rated Outcome Measures in Practice  
*Micaela Lozano, DAT, LAT, ATC, Indiana State University*
- P-49-** Self-Care Strategies Used by Athletic Trainers  
*Lindsey Eberman, PhD, LAT, ATC, Indiana State University*
- P-50-** Self-Perception of Leadership Styles and Behavior in Secondary School Athletic Trainers  
*Kelly Coleman, PhD, ATC, University of Connecticut*
- P-51-** Standing Order Requirements Increase Odds of State Practice Act Compliance in Secondary School Athletic Trainers  
*Ayami Yoshihara, MS, LAT, ATC, University of Connecticut*
- P-52-** The Effect of Reflective Journaling on Athletic Trainers' Diagnostic Competency: A Pilot Study  
*Shannon Wright, MEd, LAT, ATC, Indiana State University*
- P-53-** Obstacles to Athletic Training Health Care for University Performing Artists  
*Colleen Fussell, MS, AT, Ohio University*

**P-54-** Telemedicine Use by Athletic Trainers During the COVID-19 Pandemic  
*Gabrielle Griffin, ATC, SCAT, University of South Carolina*

**P-55-** Perceived Social Support Given by Athletic Trainers to Injured Collegiate Athletes  
*Darby McCauley, MS, ATC, Illinois State University*

**Hip, (I, II, III)**

**P-56-** Labral Injury or Reproductive Complication? Hip Pain in an Adolescent Female Athlete  
*Kevin Fleming, MBA, AT, ATC, Henry Ford Allegiance Health Sports Medicine*

**P-57-** Isolated Hip Arthroscopy Versus a Combined Arthroscopy and Periacetabular Osteotomy For the Treatment of Hip Dysplasia  
*Katherine Suelter, The Steadman Clinic*

**P-58-** Self-Efficacy and Previous Activity Level are Associated With Self-Reported Hip Function in Patients Presenting to a Hip Preservation Clinic  
*Kate Jochimsen, PhD, ATC, West Virginia University*

**Knee, (I, II, IV)**

**P-59-** Identifying Neural Activity Associated With Kinesiophobia After Anterior Cruciate Ligament Reconstruction  
*HoWon Kim, MS, AT, Ohio University*

**P-60-** Anterior Cruciate Ligament Reconstruction of a College Student With a Prosthetic Limb: A Level 4 CASE Study  
*Sara Zilvetti, Purdue University*

**P-61-** Chronic Anterior Knee Pain in a Professional Hockey Player: Level 3 Case Study  
*Jennifer Payne, MS, LAT, ATC, The Steadman Clinic*

**P-62-** Knee Pain in a High School Wrestler  
*David Jacobs, ATC, University of Kentucky*

**P-63-** Multi-Lig Knee Injury With Acute Patellar Dislocation in a Football Player  
*Jantzen Merriman, MS, LAT, ATC, University of Kentucky, Orthopaedic Surgery and Sports Medicine*

**P-64-** Multi-Ligament Tibiofemoral Dislocation in a 15-Year-Old Softball Shortstop: A Level 3 CASE Study  
*Andrew Schweitzer, LAT, ATC, University of Central Florida*

**P-65-** Psychological Readiness Predicts Reduced Physical Activity Level 6 Months After ACL Reconstruction  
*Michelle Walaszek, PT, DPT, MS, Michigan State University*

**P-66-** Recurrent Patellofemoral Instability in a Collegiate Wrestler: A Level 4 CASE Study  
*Gabriela Poolino, Purdue University*

**P-67-** Relationship of a Patient-Reported Outcome Measure at Time of Knee Injury to Days Missed Due to Injury  
*Aaron Sciascia, PhD, ATC, PES, Eastern Kentucky University*

**P-68-** Removal of Medial Plica in College Volleyball Athlete  
*Mia Zullo, Florida International University*

**P-69-** Side-To-Side Differences in Squat Symmetry After ACL-Reconstruction  
*Amelia Bruce, MS, University of Virginia*

**P-70-** Test-Retest Reliability of Clinician-Based Outcomes in Individuals With History of ACL Reconstruction  
*Rachel Kleis, ATC, University of Kentucky*

**P-71-** Tibial Spine Avulsion Fracture With Surgical Screw-Fixation in a High School Basketball Player: Level 3 Clinical Case Study  
*Morgan Duggan, Moravian College*

**P-72-** Assessment of a Knee injury in a Men's Basketball Player  
*Isabella Sterling, Ithaca College*

**P-73-** Blood Flow Restriction Use For Knee Pathologies to Address Knee Extensor Strength and Function  
*Matthew Zaremba, LAT, ATC, George Mason University*

**P-74-** Complicated ACL and Meniscus Tear in a Division I Wrestler  
*Jordan Sheppard, MS, LAT, ATC, Campbell University*

**P-75-** Presence of a Symptomatic Ligamentum Mucosum in an International Recreational Soccer Player  
*Nicolette Harris, DAT, LAT, ATC, Florida International University*

**P-76-** The Clinical Utility of Multiple Patient-Reported Outcomes in People With History of ACL Reconstruction  
*Johanna Hoch, PhD, ATC, University of Kentucky*

**P-77-** Relationship of Intra-Individual Pain Variability and Subjective Function in Individuals With Patellofemoral Pain  
*Neal Glaviano, PhD, ATC, University of Connecticut*

**Lower Extremity, (I, II, III, IV)**

**P-78-** Novel M-Mode Ultrasound Synchronization Method of Gluteal Muscle Activation: Intra-Rater Reliability and Agreement  
*L. Colby Mangum, PhD, ATC, University of Central Florida*

**P-79-** A Novel Sprinting Progression Following a Distal Fibular Stress Fracture in a Division I Track and Field Athlete

*Shane Fitzpatrick, ATC, CES, University of Illinois*

**P-80-** Acute Thrombophlebitis Management and Return-to-Activity in a NCAA Division I Pole Vaulter

*Jackson Brunner, LAT, ATC, University of Illinois*

**P-81-** Anterior Compartment Hematoma With Impending Compartment Syndrome Caused by Heterotopic Ossification of the Femur in a Collegiate Football Player

*Gabriella Arancio, MS, ATC, Louisiana State University*

**P-82-** Bone Density Loss in a High School Cross-Country Runner Due to Accutane: Level 4

*Jessica Waters, Mercer University*

**P-83-** Freiberg's Infracture Present in an Active 15-year-old Male: A Level 2 Case Study

*Roxanne Maslikowski, LAT, ATC, OTC, Vail Summit Orthopaedics Foundation*

**P-84-** Gunshot Wound With Associated Tibial Fracture and Acute Compartment Syndrome in a College Football Athlete

*Kelley Henderson, EdD, LAT, ATC, University of West Florida*

**P-85-** Sesamoidectomy in a Female High Jumper With Ehlers-Danlos Syndrome: A Case Report

*Jordyn Stewart, LAT, ATC, University of Texas at Tyler*

**P-86-** Sport Affects Overall Score on a Clinical Lower Extremity Movement Screening Tool

*Eric Shumski, University of Georgia*

**P-87-** Systematic Review of Common Lower Extremity Movement Assessment Rubrics

*Erin Lally, MS, ATC, University of Wisconsin at Milwaukee*

**P-88-** The Effect of Blood Flow Restriction on Muscle Hypertrophy and Tendon Thickness in Healthy Adults Distal Lower Extremity: A Critically Appraised Topic

*Daniel Post, Moravian College*

**P-89-** Hardware Removal and Postoperative Tightrope Fixation Complications in a Male Collegiate Football Player: Level 3 Exploration CASE Study

*Victoria Simpson, University of South Carolina*

**P-90-** Dynamic Ankle Immobilization Alters Proximal Joint, But Not Ankle Fronto-Transverse Kinematics After Three Days of Use

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

**P-91-** Dynamic Postural Stability Declines When Initiated by a Choice Reaction Task

*Matthew Hoch, PhD, ATC, University of Kentucky*

**P-92-** Dynamic Postural Stability Index is Not Altered During Dual-Task Single-Leg Landing in Healthy Participants

*Rachel Johnson, MS, ATC, University of Georgia*

**P-93-** Balance Training: Does Anticipated Balance Confidence Correlate With Actual Balance Confidence for Different Unstable Objects?

*Scott Cheatham, PhD, DPT, ATC, California State University at Dominguez Hills*

**P-94-** Sex Influences the Relationship Between Hamstrings-to-Quadriceps Strength Imbalance and Co-Activation During Walking Gait

*Samantha Smith, MS, AT, ATC, University of Toledo*

**Pedagogy, (I, II, III, IV, V)**

**P-95-** Curricular Practice of Patient Reported Outcome Measures

*Emily Hildebrand, PhD, LAT, ATC, Towson University*

**P-96-** Pre-Athletic Training Students' Confidence, Skills and Anxiety With Ankle Simulation Models: A Pilot Study

*Megan Brady, EdD, LAT, ATC, Drake University*

**P-97-** Assessing Athletic Training Students' Attitudes and Knowledge of Lesbian, Gay, Bisexual and Transgender Health Care

*Suzanna Sylcox, MS, AT, Ohio University*

**P-98-** Athletic Training Students' Exposure to, Comfort With and Perceptions of High Fidelity Patient Simulation Manikins in Athletic Training Education: A Pilot Study

*Richelle Williams, PhD, ATC, Drake University*

**P-99-** Challenges to and Support for Interprofessional Education in Athletic Training

*Sarah Manspeaker, PhD, ATC, Duquesne University*

**P-100-** Cornerstone Activities and Opportunities for Developing Interprofessional Education in Athletic Training

*Jessica Kirby, EdD, ATC, Western Carolina University*

**P-101-** Influence of Preceptor-Student Gender Bias on the Implementation of Core Competency Professional Behaviors During Clinical Experience: A Report From the AATE Research Network

*Julie Cavallario, PhD, ATC, Old Dominion University*

**P-102-** Sociocultural and Demographic Factors Associated With the Future Educational Goals of Athletic Training Students

*Melissa Kay, PhD, LAT, ATC, University of Southern Mississippi*

**P-103-** The Educational Experiences of Professional Program Directors and Athletic Training Students Regarding Patient-Centered Care

*Gillian Shaughnessy, MS, ATC, University of South Carolina*

**P-104-** Students' Perceptions of Standardized Patient Encounters in Professional Education

*Heather Adams, PhD, LAT, ATC, Indiana State University*



**Prevention, (I, IV)**

**P-105-** Attitudes Towards Participation in the Dynamic Integrated Movement Enhancement Program Worsen After Participation

*Emily Gabriel, PhD, LAT, ATC, Mercer University*

**P-106-** Coaches', Athletes' and Athletic Trainers' Impressions of the Therapeutic Effects of Tart Cherry Juice

*Natasha Blakley, University of Lynchburg*

**P-107-** Collegiate Athletes Demonstrate a Positive Association Between Self-Reported Sleep and Stress

*Daniel Aube, High Point University*

**P-108-** Current Barriers and Facilitators of Warm-Up Practices in Secondary Schools

*Lauren Sheldon, MS, LAT, ATC, University of Connecticut*

**P-109-** External Load in Men's Division III Lacrosse Athletes

*John Wise, CSCS, University of Lynchburg*

**P-110-** Interrater Reliability of the FMS Among Novice Raters and Certified Clinicians Testing Adolescent Athletes

*Jessica Emlich-Jochum, PhD, LAT, ATC, University of Indianapolis*

**P-111-** Knowledge, Attitudes and Beliefs Toward Noise, Hearing Loss and Protective Equipment Usage Among Professional and Collegiate Athletic Trainers

*Scott Goodwin, Moravian College*

**P-112-** Match and Practice Demands of NCAA Division III Women's Soccer Athletes

*Sarah Tooley, University of Lynchburg*

**P-113-** Subjective Measures of Well-Being is Influenced by Amount of Play During Competitive Soccer Games

*Brett Pexa, PhD, ATC, High Point University*

**P-114-** The Effects of Hand and Ocular Dominance: Implications for Rehabilitation

*Mikaela Boham, EdD, LAT, ATC, Texas A&M University at Corpus Christi*

**Spine, (II, IV)**

**P-115-** Unilateral Pedicle Stress Fracture in the Lumbar Spine of a Collegiate Basketball Athlete

*Scott Freer, PhD, LAT, ATC, Barry University*

**P-116-** Low Back Pain Disability Improved Consistently Regardless of Stabilization or General Exercise Comparison: A Critically Appraised Topic

*Barbara Umpleby, University of Central Florida*

**P-117-** Lumbar Disc Injury From a Sneezing Mechanism in a Collegiate Rower

*Jessica von Kessel, Marist College*

### **Tactical Athletes, (I, IV)**

**P-118-** Associations Between History of Ankle Sprains and Future Ankle Sprain During a One-Month Military Training Course

*Carolyn Dartt, MEd, ATC, Consortium for Health and Military Performance*

**P-119-** Musculoskeletal Injuries During an Overseas Training Exercise: Do Sustainment Brigade Soldiers Seek Care?

*Kayla Smith, LAT, ATC, Moravian College*

**P-120-** Perceptions, Practices and Barriers of Military Athletic Trainers' Using Patient-Reported Outcome Measures in Their Clinical Practice

*Nicole Lee, ATC, Indiana State University*

**P-121-** The Examination of Access and Experience With Health Care Providers For ROTC Members

*Mary Avey, MS, ATC, University of South Carolina*

### **Therapeutic Exercise, (I, IV)**

**P-122-** Kinesiology Tape: A Descriptive Survey of Health Care Professionals in the U.S.

*Rusty Baker, PhD, DAT, ATC, University of Idaho*

**P-123-** Management of Osteitis Pubis in the Soccer Athlete: A Case Report

*Joshua Bell, University of Texas at Arlington*

**P-124-** Muscle Activation, Median Frequency and Perceived Exertion During the Sport Specific Endurance Plank Test

*Kallie Hannon, MS, ATC, CSCS, Campbell University*

**P-125-** Muscle Activation and Reason for Termination in the Lumbopelvic-Hip Complex During the Prone Bridge Plank and V-Sit

*Luk Devorski, MS, LAT, ATC, University of Central Florida*

**P-126-** The Usage of Active Video Games Among Athletic Trainers in a Clinical Setting, Part One: Examining the Constructs of the Theory of Planned Behavior

*Sabrina Deans, PhD, ATC, Rocky Mountain University of Health Professions*

### **Therapeutic Modalities, (I, IV)**

**P-127-** Dry Cupping Therapy Application Procedures for Treating Musculoskeletal-Related Pain: A Systematic Review

*Stephanie Stephens, MS, LAT, ATC, University of Virginia*

**P-128-** The Efficacy of Low-Level Laser Therapy in the Treatment of Type I Complex Regional Pain Syndrome

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

**P-129-** The Effect of Dynamic Compression on Recovery of Performance and Self-Reported Function After an Intense Bout of Plyometric Exercise  
*Melissa M. Montgomery, PhD, ATC, California State University, Fullerton*

**Upper Extremity, (I, II, III, IV)**

**P-130-** Upper Extremity Injury History Impacts Current Health-Related Quality of Life in Collegiate Baseball and Softball Athletes  
*Kelsey Picha, PhD, ATC, A.T. Still University*

**P-131-** Muscle Synergy Adaptations in Overhead Athletes  
*Morgan Wambold, MS, LAT, ATC, Temple University*

**P-132-** The Effects of Fatigue on Muscle Synergies in the Shoulders of Baseball Players  
*Ryan Paul, CSCS, Rothman Orthopaedic Institute*

**P-133-** Demographics and Associated Comorbidities of Patients Presenting to an Outpatient Sports Medicine Clinic With Calcific Tendinitis of The Shoulder  
*Jessica Mateer, MS, LAT, ATC, University of Miami Sports Medicine Institute*

**P-134-** A Case of a Galeazzi Fracture in a High School Soccer Athlete: A Level 4 Rare Events Case Study  
*Melissa Snyder, PhD, LAT, ATC, Western Carolina University*

**P-135-** Parsonage-Turner Syndrome in a Female Middle/High School Cheerleader  
*Dale Blair, MS, ATC, CSCS, Wenatchee High School*

**P-136-** Possible Prediction of Throwing Arm Injuries With the Scapular Dyskinesis Test During the Course of Collegiate Baseball Seasons  
*Masaaki Tsuruike, PhD, ATC, San José State University*

**P-137-** Posterior Shoulder and Upper Back Pain in a Competitive Tennis Player  
*Matthew Brewer, MS, LAT, ATC, Children's Hospital Colorado*

**P-138-** Relationships Between Hip, Thoracolumbar and Glenohumeral Ranges of Motion in Division I Collegiate Baseball Players  
*Lee Matthews, ATC, New Hampshire Musculoskeletal Institute*

**P-139-** Shoulder Muscle Activation Before and After a Lumbopelvic-Hip Complex Fatigue Protocol  
*Jordan Jacobson, MS, AT, ATC, University of Toledo*

**P-140-** Strength and Range of Motion Differences at the Hip, Thoracolumbar and Glenohumeral Joints Between Division I and Division III Baseball Players  
*Elizabeth Lewis, ATC, New Hampshire Musculoskeletal Institute*

**P-141-** Coracoid Stress Fracture Secondary to Biceps Tenodesis: A Level 4 CASE Study  
*Kimberly Buckholts, LAT, ATC, NREMT, University of Kentucky*