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 Mittra, Duquesne University*
Concussion Modifiers Associated With Prolonged Recovery of Sport Concussion
Jasmine Monge, University of Virginia

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

Factors Associated With Increased Concussion Knowledge in Youth Athletes
Ashley Evans, Duquesne University

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

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

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

Epidemiology, (I, III)
Epidemiology of Emergency Medical Services Activations for Sport-Related Injuries
Rebecca Hirschhorn, PhD, ATC, NRAEMT, Louisiana State University

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

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

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

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

General Medicine, (I, II, III, IV)
Examination of Eating Disorder and Depression Risk Across Collegiate Student-Athletes
Samantha Weber, PhD, SCAT, ATC, University of South Carolina

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, MSEd, 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-Ligamental 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 Poalino, Purdue University*

**P-67**- Relationship of a Patient-Reported Outcome Measure at Time of Knee Injury to Days Missed Due to Injury
*Aaron Sciaccia, 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 1 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 Infraction 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*
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