



FINAL PROGRAM

PRiSM
11th Annual Meeting

DISNEYLAND® Hotel
ANAHEIM, CA

Jan 25-27
2024



PRiSM

Pediatric Research in
Sports Medicine Society

LONG LIVE CHILDHOOD



CHOC stays at the forefront of pediatric research to provide high-quality, innovative clinical care to children.

The CHOC Sports Medicine Program offers young athletes unrivaled services for their sport-related needs. We work one-on-one with each patient to develop a unique plan—with an emphasis on preserving future growth and function, and a safe return to play. Research at the CHOC Orthopaedic Institute is vital to advancing clinical care in the field of orthopaedics. We are committed to the pursuit of seminal, cutting-edge discoveries that result in new knowledge and the ongoing improvement of therapeutic treatments, quality of care and provided exceptional outcomes to our patients and their families.

Visit choc.org/sports to learn more.





PRiSM 11th Annual Meeting

DISNEYLAND® Hotel | Jan 25-27
ANAHEIM, CA | 2024

PRISM Mission

The purpose of PRiSM is to lead interdisciplinary research, education and advancement in pediatric and adolescent sports medicine.

Target Audience

The target audience for the PRiSM 11th Annual Meeting includes athletic trainers, physical therapists, mid-level providers, radiologists, sports medicine providers, orthopedic surgeons, orthotists, rehab engineers, kinesiologists, nutritionists, educators, administrators, researchers, and all others concerned with pediatric and adolescent sports medicine.

Annual Meeting Objectives

Upon completion of this activity, participants should be able to:

- Discuss the diagnosis & multidisciplinary management of common pediatric and adolescent sports related injuries.
- Establish treatment guidelines and algorithms for working with childhood athletes and their families.
- Examine multiple evidence based approaches to treating pediatric sports concerns.
- Explore clinical approaches to the injured athlete throughout their continuum of care.
- Evaluate effective ways to improve patient care and reduce lifelong sequelae of sports injuries.

Welcome To Disneyland!

We are delighted to have you join us for the 11th Pediatric Research in Sports Medicine meeting in Anaheim!

This year's scientific program features the presentation of nearly 200 original abstracts as podiums, posters, and ePosters, representing diverse and innovative contributions to important topics in pediatric sports medicine. In addition to extraordinary scientific research sessions, PRiSM's 11th Annual Meeting will feature two outstanding keynote speakers who bring a unique perspective to pediatric sports medicine and unites all disciplines. Aligned with our mission, the Annual Meeting offers the opportunity to strengthen existing relationships and build new connections within our multidisciplinary community with the overarching goal of advancing research and clinical practice, and most importantly, improving outcomes for our pediatric patients. One focus of the planning committee this year was to provide more opportunities for members to network and collaborate, embracing the true multidisciplinary nature of the meeting.

Highlights of the meeting include a new Poster Crawl event to engage poster presenters, two sponsor breaks for attendees to visit exhibits, seven instructional courses, two lunch and learn sessions, and eighty podium abstract presentations. This amazing program kicks off on Thursday with an early morning Fun Run 5k around Downtown Disney followed by an evening Welcome Reception on the Adventure Lawn. Proceedings will be wrapped up on Saturday when conference awards for both last year AND this year are announced at the Business Lunch Meeting!

Our objective in creating the scientific program for the 2024 was to embrace and leverage the diversity in our membership through relationship building to bring the PRiSM membership a step closer to achieving excellence in pediatric sports medicine research. Each year, the quality of the research submitted to the meeting increases and this year was no exception. This meeting would not be possible without all of the hard work, commitment, and enthusiasm to advancing the world of pediatric sports medicine by each of you, and for that, we Thank You! We hope you enjoy the offerings of this year's agenda, develop meaningful and collaborative relationships, and spend some time exploring the magical land of Disney! We truly look forward to seeing you at the meeting!

Your 2024 Scientific Program Committee Chairs,
Sophia Ulman, PhD & John Schlechter, DO

Meeting at a Glance

THURSDAY, JANUARY 25, 2024	
7:00 – 8:00 AM	Fun Run
9:00 AM – 12:00 PM	Precourse: Developing a complete research team: Findings from the voices from PRISM members
12:00 – 1:00 PM	Committee Meetings Awards; Communications; Diversity; Education; Membership; Research
1:00 – 2:00 PM	RIGs Meeting 1
2:00 – 3:00 PM	RIGs Meeting 2
3:00 – 4:00 PM	RIGs Meeting 3
4:00 – 5:00 PM	RIGs Meeting 4
5:15 - 6:15 PM	Welcome Reception
FRIDAY, JANUARY 26, 2024	
7:00 – 8:00 AM	Team Up to Crack the Case with Breakfast
8:00 – 8:15 AM	Welcome and Sponsor Highlight: Children’s Hospital of Orange County
8:15 – 9:00 AM	Research Interest Group (RIG) Update Session
9:00 – 9:45 AM	Scientific Session 1: Trainee Travel Grant Awards Session
9:45 – 10:00 AM	Break
10:00 – 11:00 AM	Instructional Course 1: Sex? Gender? Do these words influence ACL Injury Management?
	Instructional Course 2: Avengers Assemble: Identifying Superheroes to Elevate Standards of Care
11:00 – 11:45 AM	Scientific Session 2: Surgical Treatments and Outcomes Award Session
11:45 AM – 12:00 PM	Grab Lunch
12:00 – 12:45 PM	Lunch & Learn 1: Who Teaches the Teachers? Innovations in Sports Medicine Education
	Lunch & Learn 2: Upper Extremity Return-to-Play Evaluation: Why have we not caught up to ACL?
11:00 AM - 12:00 PM	Poster Presentation
12:45 – 1:00 PM	Break
1:00 – 2:00 PM	Keynote Presentation: Tom Farrey
2:00 – 2:45 PM	Scientific Session 3: Injury Prevention and Motion Analysis Award Session
	Scientific Session 4: Mental Health and Wellness Award Session
2:45 – 3:15 PM	Exhibit/Sponsor Break
3:15 – 4:00 PM	Scientific Session 5: Diagnosis, Treatment, Management of Medical Conditions Award Session
4:00 – 4:45 PM	Scientific Session 6: Patellofemoral Instability
	Scientific Session 7: Concussion
4:45 – 5:15 PM	Scientific Session 8: Female Athlete
	Scientific Session 9: Rehabilitation
5:30 – 6:30 PM	Poster Crawl Reception

SATURDAY, JANUARY 27, 2024	
7:00 – 8:00 AM	Poster Viewing with Breakfast
8:00 – 9:00 AM	Instructional Course 7: Pediatric vs. Adult Musculoskeletal Ultrasound: What’s the difference?
	Research Interest Group (RIG) Update Session
9:00 – 9:45 AM	Scientific Session 10: Health Disparities
	Scientific Session 11: ACL
9:45 – 10:00 AM	Break
10:00 - 10:45 AM	Scientific Session 12: Motion Analysis
	Scientific Session 13: Mental Health and Self-Reported Outcomes
10:45 - 11:45 AM	Instructional Course 3: Return to Play Across the Spectrum: How to Get Everyone Back Safely in Any Setting
	Instructional Course 4: If You Build it (Right), They Will Come: An Evidence-Based Approach to Injury Prevention Program Design, Implementation, and Evaluation
11:45 AM – 12:00 PM	Grab Lunch
11:45 AM - 12:45 PM	Business Meeting and Awards Ceremony
1:00 – 2:00 PM	Keynote Presentation: Nichol Whiteman
2:00 – 2:30 PM	Exhibit/Sponsor Break
2:30 – 3:15 pm	Scientific Session 14: Treatment Outcomes
	Scientific Session 15: Injury Prevention and Epidemiology
3:15 – 4:15 PM	Instructional Course 5: Smarter not harder: Train the brain strategies to prevent injury and optimize return to play
	Instructional Course 6: Implementing best practices into concussion care: An update from the Amsterdam Consensus Meeting

Continuing Education (CE) Language

PEDIATRIC RESEARCH IN SPORTS MEDICINE SOCIETY – 11TH ANNUAL MEETING

Live: January 25 – 27, 2024

Enduring: January 28, 2024 – January 28, 2025

Anaheim, CA

JOINT ACCREDITATION STATEMENT



In support of improving patient care, this activity has been planned and implemented by Amedco LLC and Pediatric Research in Sports Medicine (PRISM). Amedco LLC is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Amedco Joint Accreditation #4008163.

PHYSICIANS (ACCME) CREDIT DESIGNATION

Amedco LLC designates this live activity for a maximum of **14.75 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Amedco LLC designates this enduring material for a maximum of **22.75 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

NURSES (ANCC) CREDIT DESIGNATION

Amedco LLC designates this activity for a maximum of **14.75 live activity/ 22.75 enduring material ANCC contact hours**.

ATHLETIC TRAINERS (BOC) CREDIT DESIGNATION

Amedco (BOC AP#: 4008163) is approved by the Board of Certification, Inc. to provide continuing education to Athletic Trainers (ATs). This program is eligible for a maximum of **14.75 live activity/ 22.75 enduring material** Category A hours/CEUs. ATs should claim only those hours actually spent in the educational program.

PHYSICAL THERAPY BOARD OF CALIFORNIA (CA PT)

This activity has been submitted for review.

NEW JERSEY STATE BOARD OF PHYSICAL THERAPY EXAMINERS (NJ PT)

This activity has been submitted for review.

OHIO OCCUPATIONAL THERAPY, PHYSICAL THERAPY AND ATHLETIC TRAINERS BOARD (OTPTAT)

This activity has been submitted for review.

PENNSYLVANIA STATE BOARD OF PHYSICAL THERAPY (PA PT)

This activity has been submitted for review.

TEXAS PHYSICAL THERAPY ASSOCIATION (TX PT)

This activity has been submitted for review.

States with reciprocity with Texas Physical Therapy Association: AL, AK, AZ, CT, DE, GA, HI, ID, IN, IA, KS, KY, LA, ME, MA, MI, MN, MO, MS, NE, NH, NC, ND, OR, RI, SC, SD, TN, UT, VT, VA, WA, WI, WY

Acknowledgements

The Pediatric Research in Sports Medicine Society would like to thank the following organizations for their generous support of PRISM and the 11th Annual Meeting.



Exhibitors

We would like to thank all of the companies for exhibiting at PRISM's 11th Annual Meeting. Exhibits are located in South Exhibit Hall. These companies and organizations help to make our Annual Meeting possible, and we encourage you to visit the exhibits. A listing of all exhibitors will be provided on-site.

Announcements

CELL PHONES

As a courtesy to others, please silence your mobile devices during all presentations.

INTERNET ACCESS

Complimentary internet is available throughout the conference center and hotel.

MEALS

Breakfasts will be provided Friday and Saturday in the exhibit hall and foyer on the Lower Level.

Lunches will be provided Friday and Saturday in the foyer outside the Magic Kingdom Ballroom on the Upper Level.

WELCOME RECEPTION – THURSDAY, JANUARY 25

The Welcome Reception will take place on the Adventure Lawn.

POSTER CRAWL RECEPTION – FRIDAY, JANUARY 26

The Poster Crawl Reception will be held in the South Exhibit Hall on the Lower Level. Participants will have a chance to speak with colleagues, exhibitors and poster presenters.

FUN RUN – THURSDAY, JANUARY 25

The Fun Run will take place around the parks. The starting point will be at the back of the Adventure Tower.

REGISTRATION DESK HOURS – LOWER LEVEL BALLROOM FOYER

Wednesday, January 24	5:00pm – 7:00pm
Thursday, January 25	6:30am – 5:00pm
Friday, January 26	6:00am – 5:00pm
Saturday, January 27	6:30am – 12:00pm

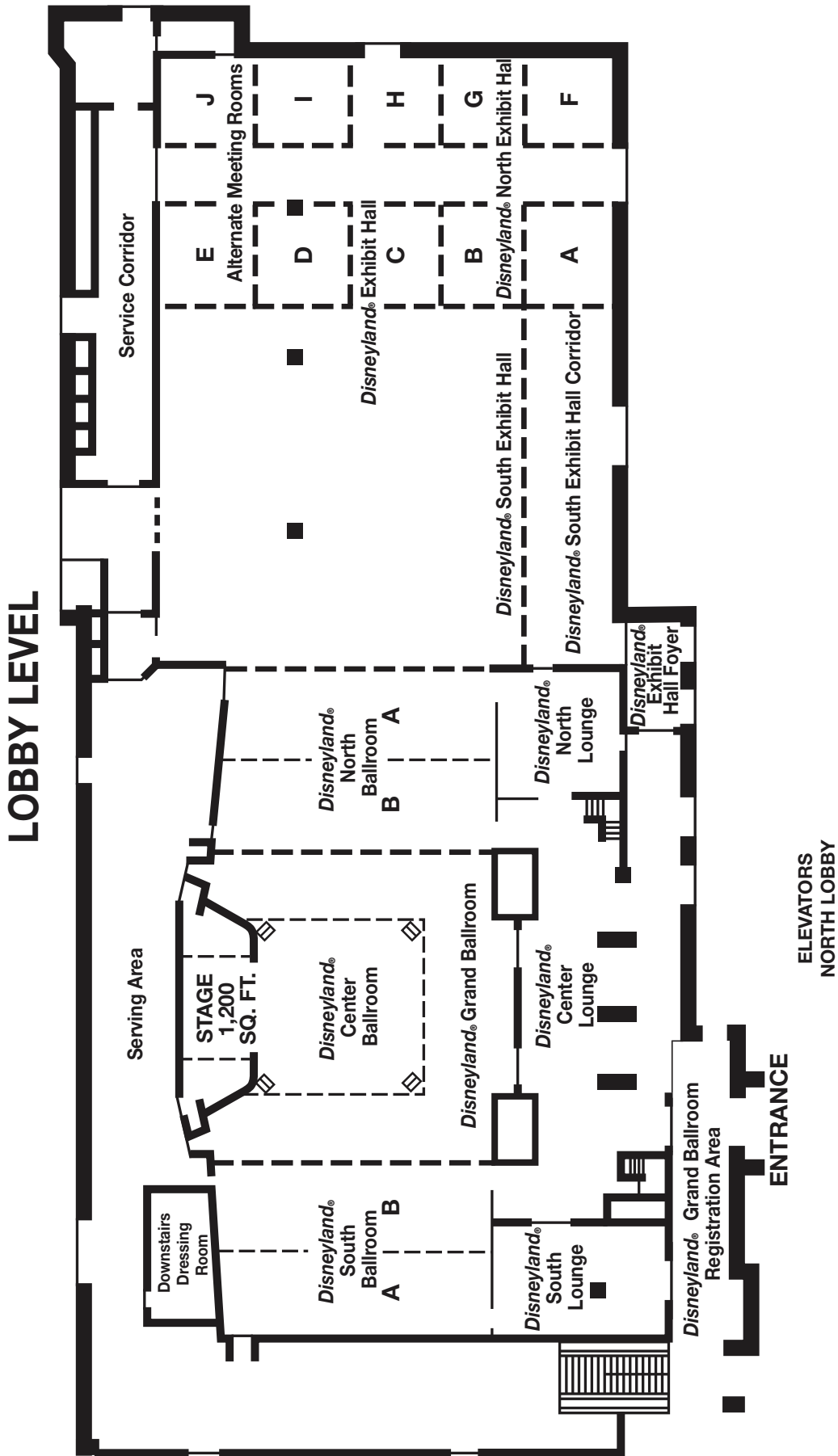
OTHER MEETINGS*

ROCK-ROCKET

Wednesday, January 24	6:00am – 9:30 pm
Thursday, January 25	8:00am – 12:00 pm

Location: Castle Room

*Meetings are not affiliated with PRISM



7:00 - 8:00 AM

FUN RUN

9:00 AM – 12:00 PM

PRE-COURSE: DEVELOPING A COMPLETE RESEARCH TEAM: FINDINGS FROM THE VOICES FROM PRISM MEMBERS

Center/North

A multidisciplinary and multi-center discussion on how to effectively engage in translational research as a clinician in the pediatric sports medicine setting. This course will highlight common barriers and facilitators of research activities.

Translating evidence into clinical practice is critically important to advancement in the field of pediatric sports medicine. Clinician-scientists are considered key personnel in the evidence based practice model, however, downward trends in research activities in clinician-scientists have been reported. Time, availability of research personnel, leadership support, lack of authority to implement findings into clinical settings, and funding have been reported as the top barriers to research among sports medicine physicians and allied health practitioners (physical therapists and athletic trainers). Understanding these barriers and developing practical strategies to overcome them is an important first step to optimizing research engagement.

In contrast, understanding factors that facilitate research activities are equally important and need to be explored and leveraged. Research mentoring has been identified as a key facilitator of engagement by both sports medicine physicians and allied health practitioners. Mentor and mentee relationships are mutually beneficial if they are chosen carefully but they are not always easy to master.

This course will explore these areas and highlight practical solutions to re-igniting clinician-scientist driven research in the field of pediatric sports medicine.

Lauren Butler, DPT; Kevin Latz, MD; Joseph Janosky, DrPHc LSc PT AT; Dai Sugimoto, PhD ATC; and Sophia Ulman, PhD

AGENDA

Introduction

Lauren Butler

Why are clinician-scientists important in evidence based practice

Barriers and facilitators of research in pediatric sports medicine practitioners

Dai Sugimoto

Overview: background and development of Barriers and Facilitators project.

Findings: the top reported barriers and facilitators amongst pediatric sports medicine physicians

Findings: the top reported barriers and facilitators amongst allied health practitioners

How to overcome barriers to research participation amongst allied health practitioners

Lauren Butler

Real life of busy clinician-scientist on my own case.

Practical strategies to maximize time and funding

How to overcome barriers to research participation amongst pediatric sports medicine physicians

Kevin Latz

Gaining leadership support

Leveraging limited research personnel

Implementing research into clinical practice

Joseph Janosky

Differentiate between clinical and translational research

Opportunities to incorporate research activities in the clinic and in the community

Mastering the mentor and mentee relationship

Sophia Ulman

What works well

What doesn't work well

Discussion and Panel Q&A 15 min

Thursday, January 25, 2024

All Committee and RIG meetings will take place in the Exhibit Hall on the Lower Level.

THURSDAY, JANUARY 25, 2024

12:00 – 1:00 PM	COMMITTEE MEETINGS Awards Communications Diversity Education Membership Research	Section F Section G Section B Section H Section D Section C
1:00 – 2:00 PM	RESEARCH INTEREST GROUPS MEETINGS Rehabilitation Spine/Spondylolysis Injury Prevention Meniscus	Section B Section C Section G Section H
2:00 – 3:00 PM	RESEARCH INTEREST GROUPS MEETINGS Shoulder Instability Bone Stress Motion Analysis Tibial Spine	Section B Section C Section G Section H
2:00 – 3:00 PM	RESEARCH INTEREST GROUPS MEETINGS Female Athlete Ultrasound Hip Disorders Sports Specialization	Section B Section C Section G Section H
4:00 – 5:00 PM	RESEARCH INTEREST GROUPS MEETINGS Concussion Patellofemoral Instability Elbow Multi-Ligament Knee	Section B Section C Section G Section H
5:15 – 6:15 PM	WELCOME RECEPTION	Adventure Lawn

7:00 - 8:00 AM	<p>TEAM UP TO CRACK THE CASE WITH BREAKFAST</p> <p>I've Got Your Back: A Missed Sacrum Fracture Resulting in SI Joint Dysfunction <i>Elspeth Hart, DScPAS PA-C MPAS ATC LAT; Pierre D'hemecourt, MD; Alyssa Herrera-Set, DPT SCS NCPT; Kerry Bair, RD; and Ariana Leblanc, LMHC</i></p> <p>Wait versus Weight: When to Take Action in the Sports Clinic <i>Jannah Mann, MD FRCSC MHCDS; Bianca Edison, MD Ms FAAP; Alaina Vidmar, MD; and Jeremy Wong, MD</i></p>	Center/North
8:00 - 8:15 AM	<p>WELCOME AND SPONSOR HIGHLIGHT: CHILDREN'S HOSPITAL OF ORANGE COUNTY</p>	Center/North
8:15 - 9:00 AM	<p>RESEARCH INTEREST GROUP (RIG) UPDATE SESSION</p>	Center/North
9:00 - 9:45 AM	<p>SCIENTIFIC SESSION 1: TRAINEE TRAVEL GRANT AWARD SESSION</p>	Center/North
9:00 - 9:06 am	<p>Moderator <i>David Howell, PhD</i></p>	
9:06 - 9:12 am	<p>EVALUATION OF SCREEN TIME AMONG ACUTELY INJURED CONCUSSION PATIENTS DURING THE INITIAL STAGES OF RECOVERY <i>Abel Mathews, PhD</i></p>	
9:12- 9:18 am	<p>CHARACTERISTICS AND OUTCOMES OF OPERATIVELY TREATED DISCOID LATERAL MENISCUS IN PEDIATRIC PATIENTS: A MULTI-CENTER STUDY <i>Jennifer Sheasley, MD</i></p>	
9:18 - 9:24 am	<p>EFFECT OF KINESIOPHOBIA ON SLEEP BEHAVIORS OF YOUTH ATHLETES <i>Jessica Garcia, PhD</i></p>	
9:24 - 9:30 am	<p>SLEEP DISTURBANCES IN ADOLESCENT FOOTBALL ATHLETES: A SOCIOECOLOGICAL PERSPECTIVE <i>Mary Margaret Williamson, ATC LAT MS</i></p>	
9:30 - 9:36 am	<p>IMPACT OF PRIOR CONCUSSION HISTORY ON THE PRESENTATION AND SEVERITY OF CONCUSSION SYMPTOMS AT BASELINE IN AN UNDERREPRESENTED POPULATION <i>Taia MacEachern. MS</i></p>	
9:36 - 9:45 am	<p>Discussion <i>David Howell, PhD</i></p>	
9:45 - 10:00 AM	<p>BREAK</p>	
10:00 - 11:00 AM	<p>INSTRUCTIONAL COURSE 1: SEX? GENDER? DO THESE WORDS INFLUENCE ACL INJURY MANAGEMENT</p> <p>This course will discuss gender bias in the context of ACL injury incidence and management. From the weight room to the rehabilitation clinic, even in preventive interventions and research, gendered environments may influence more than we think! The majority of the literature surrounding ACL injury surveillance, rehabilitation, and risk reduction has followed a traditional medical model, focusing on biological, anatomical, and movement-based factors. Surprisingly, despite high levels of evidence outlining higher predisposition to primary ACL injury and increased risk for poor outcomes after ACL reconstruction among females, minimal research has sought to examine the role of environmental and contextual factors related to gender on ACL injury rehabilitation. Given that females already experience lower levels of sport participation, reduced rates of generalized physical activity, and larger percentages of early sport drop out, identifying and eliminating additional barriers within this population is an important public health issue. In this course, we will explore the ways in which gender may influence the care and recovery of ACL injured youth athletes. The panel will summarize existing and ongoing research within this emerging area of study and empower attendees to consider the impact of gender influence on patient experience and post-operative recovery.</p> <p><i>Lauren Butler, DPT; Sophia Ulman, PhD; Joseph Janosky, DrPHc MSc PT AT; Alexa Martinez, DPT and Elliot Greenberg, PhD DPT</i></p>	Center/North

FRIDAY, JANUARY 26, 2024

10:00 – 11:00 AM	<p>INSTRUCTIONAL COURSE 2: AVENGERS ASSEMBLE: IDENTIFYING SUPERHEROES TO ELEVATE STANDARDS OF CARE</p> <p>The growth and expansion of a multi-disciplinary sports medicine program can allow for a higher level of care for both patients and the community. As sports medicine programs grow, challenges arise to ensure that standards of practice are met across the system while empowering the clinician to practice autonomously. Once standards of practice are adopted throughout an institution, clinical research needs to be integrated continuously to re-evaluate current sports medicine practices. This course will demonstrate a step-by-step approach to updating standards of practice with the collaboration of an inter-disciplinary team, culminating with integrating research initiatives. The audience will leave this session with a framework to implement a plan of action to create meaningful change for clinicians and patients alike.</p> <p><i>Scott McKay, MD; Nicole Melfi PT DPT SCS ATC CSCS; Nick Purcell PT DPT SCS CSCS and Adam Saloom, PT DPT SCS</i></p>	South
11:00 – 11:45 AM	<p>SCIENTIFIC SESSION 2: SURGICAL TREATMENTS AND OUTCOMES AWARD SESSSION</p>	Center/North
11:00 – 11:06 am	<p>Moderator Emily Niu, MD</p>	
11:06 – 11:12 am	<p>TWO-YEAR PATIENT-REPORTED OUTCOMES AND GRAFT RUPTURE FOLLOWING ACL RECONSTRUCTION IN SKELETALLY IMMATURE ATHLETES: RESULTS FROM THE PLUTO (PEDIATRIC ACL: UNDERSTANDING TREATMENT OPTIONS) PROSPECTIVE COHORT STUDY Mininder Kocher, MD MPH</p>	
11:12 – 11:18 am	<p>VARIABLE GUIDELINES FOR PEDIATRIC MEDIAL PATELLOFEMORAL LIGAMENT RECONSTRUCTION REHABILITATION EXISTS ACROSS PRISM MEMBER ORGANIZATIONS Elliot Greenberg, DPT PhD</p>	
11:18 – 11:24 am	<p>OUTCOMES FOLLOWING OPERATIVE VS. NON-OPERATIVE TREATMENT OF COMPLETELY DISPLACED MIDSHAFT CLAVICLE FRACTURES IN ADOLESCENT BASEBALL PLAYERS AND OTHER OVERHEAD ATHLETES Eric Edmonds, MD</p>	
11:24 – 11:30 am	<p>ARTHROSCOPIC BANKART REPAIR FOR ANTERIOR GLENOHUMERAL INSTABILITY IN 488 ADOLESCENTS BETWEEN 2000-2020: RISK FACTORS FOR REVISION STABILIZATION Jeffrey Kay, MD</p>	
11:30 – 11:36 am	<p>RETURN TO ACTIVITY FOLLOWING PATELLOFEMORAL OSTEOCHONDRAL FRACTURE IN PEDIATRIC PATIENTS: A COMPARISON OF METALLIC SCREW AND BIOABSORBABLE FIXATION Kevin Orellana, BS</p>	
11:36 - 11:45 am	<p>Discussion Emily Niu, MD</p>	
11:45 AM – 1:00 PM	<p>LUNCH</p>	Magic Kingdom Foyer

12:00 – 12:45 PM

**LUNCH & LEARN 1: WHO TEACHES THE TEACHERS?
INNOVATION IN SPORTS MEDICINE EDUCATION**

Magic Kingdom 2-3

Musculoskeletal (MSK) and sports medicine (SM) complaints are the most common reason to visit outpatient departments and second only to upper respiratory illness as reason to visit the emergency department in pediatrics and adolescents. However, MSK and SM teaching is significantly underrepresented at the medical school and post-graduate training levels, particularly in pediatrics. Less than 20% of medical students and primary care residents are able to achieve a passing grade on a validated MSK competency examination. Though pediatric residents and faculty recognize this as an insufficiency in their training, nearly 30% of pediatric residencies in the United States include no formal MSK examination teaching, over 80% of programs offering less than 6 hours of sports medicine lecture time.

In this course we will review the literature showing the deficits in pediatric training and discuss innovations in education that can take sports medicine providers in medicine, surgery, athletic training, and physical therapy beyond the PowerPoint lecture format to maximize sports medicine teaching effectiveness.

Michael Beasley, MD; Cynthia Stein, MD MPH MEd; Carl Nissen, MD; and Eric Post, ATC

12:00 – 12:45 PM

**LUNCH & LEARN 2: UPPER EXTREMITY RETURN-TO-PLAY EVALUATION:
WHY HAVE WE NOT CAUGHT UP TO ACL?**

Magic Kingdom 1-4

A broad and in-depth review of existing upper extremity assessments for return-to-play (RTP) of overhead and contact sports. Using a multidisciplinary approach to develop a standardized testing protocol and capture pediatric normative values.

Current decision-making for return-to-play (RTP) readiness in upper extremity athletes is often based on time from surgery, and there is little evidence to support a battery to evaluate these athletes. It is important to better understand which assessments are associated, and could potentially predict, successful outcomes both clinically and on the field.

Considerable research has been conducted on optimizing and standardizing RTP evaluations for the ACL patient population, which has led to the reduction of well-known risk factors via injury prevention strategies. Unfortunately, fewer investigations have focused on the upper extremity population, leaving physicians and physical therapists to gauge RTP readiness using variables such as time from surgery, simple range-of-motion measurements, and manual muscle testing.

Although these measures are the current standard, we realize they are not the most appropriate for assessing readiness to return to high-impact, dynamic sports. Identifying key risk factors and establishing important milestones will allow providers to establish a systematic process for safely clearing upper extremity athletes back to sport and potentially reduce risk factors that lead to injury and re-injury.

This course will be presented by a multidisciplinary team of experts that are all well versed in the treatment of upper extremity athletes. The team plans to promote discussion around this knowledge gap that exists in the sports medicine community.

Cody Todesco, PA-C MMS; John Arvesen, MD; Daniel Stokes, PT DPT CSCS; and Katie Holehouse, PT DPT CSCS

1:00 – 2:00 PM

KEYNOTE PRESENTATION

Center/North

*Tom Farrey, Executive Director
The Aspen Institute*



Tom is founder and executive director of the Aspen Institute’s Sports & Society Program, the mission of which is to convene leaders, facilitate dialogue, and inspire solutions that can help sports serve the public interest. Since 2011, the program has provided thought leadership on topics including the future of college sports, athlete advocacy, the legacy of Title IX, and the role of sports in addressing climate change.

The program’s signature initiative is Project Play, which develops, applies and shares knowledge to build healthy children and communities through sports. Since 2013, strategies advanced through Project Play have inspired hundreds of organizations to take mutually reinforcing actions, governments from the federal to county levels to introduce new policies, and foundations to unlock shape more than \$60 million in grants for grassroots programs. The initiative’s #DontRETIREKid media campaign in 2020 won 37 international awards including Clios, Cannes Lions and a Halo Award. Inspired by Project Play, other countries including Mexico and Romania have launched related initiatives.

Tom came to Aspen from ESPN where his work as a journalist was recognized for its innovation and excellence. In 1996, he joined the internet startup Starwave as deputy editor, helping develop the website that later became ESPN.com. He then became the first reporter to produce cross-platform enterprise reports. His investigations over two decades helped grow the reputation of the television show Outside the Lines and won many national honors including two Sports Journalism Emmys, an Edward R. Murrow Award, and a 2014 Alfred I. duPont/Columbia University Award – ESPN’s first. His reports also appeared on E:60, ABC’s World News Tonight, and Good Morning America. Since leaving ESPN in 2017, he has written for the Times and other outlets.

As a convener and storyteller, the guiding principles of his work have been truth (best as we can discern) and progress (best as we can deliver). His reporting on football safety, the torture of Iraqi athletes, and the ethics of drug testing have won top awards from the Black Journalists Association, Asian American Journalists Association, and the Women’s Sports Foundation. He is best known for his insights on the base of our sport ecosystem, with The Nation writing that Tom “has done more than any reporter in the country to educate all of us about the professionalization of youth sports.”

2:00 – 2:45 PM

**SCIENTIFIC SESSION 3:
INJURY PREVENTION AND MOTION ANALYSIS AWARD SESSION**

Center/North

2:00 – 2:06 pm

Moderator
Chris Kuenze, PhD ATC

2:06 – 2:12 pm

ACL INJURY PREVENTION TRAINING FOSTERS MEANINGFUL BEHAVIOR CHANGE AMONG HIGH SCHOOL SPORTS COACHES
Joseph Janosky, DrPHc MSc PT ATC

2:12 – 2:18 pm

BIOMECHANICAL PROFILE OF ADOLESCENT PATIENTS AT RETURN TO PLAY CLEARANCE WHO SUBSEQUENTLY SUFFERED A CONTRALATERAL ACL INJURY: A MOTION CAPTURE ASSESSMENT USING THE PRISM SPORTS PROTOCOL
Ashley Erdman, BS

2:18 – 2:24 pm

SPORT SPECIALIZATION IN YOUNG ATHLETES AND THE RISK OF SUBSEQUENT INJURIES: RESULTS FROM THE SAFE INVESTIGATORS
Jared Lutsic, MS

2:24 – 2:30 pm

PEDIATRIC AMERICAN FOOTBALL INJURIES IN FEMALE ATHLETES: A DESCRIPTIVE EPIDEMIOLOGIC STUDY
Luke Radel, MD

2:30 – 2:36 pm

EPIDEMIOLOGY OF INJURY AND ILLNESS DURING WHEELCHAIR BASKETBALL EVENTS AT THE CANADA GAMES
Amanda Black, CAT(C) PhD

2:36 – 2:45 pm

Discussion
Chris Kuenze, PhD ATC

2:00 – 2:45 PM	SCIENTIFIC SESSION 4: MENTAL HEALTH AND WELLNESS AWARD SESSION	South
2:00 – 2:06 pm	Moderator <i>Shelby Baez, PhD ATC</i>	
2:06 – 2:12 pm	SEX DIFFERENCES IN SLEEP QUALITY AMONG ADOLESCENT SOCCER AND BASKETBALL PLAYERS <i>Sarp Sahin</i>	
2:12 – 2:18 pm	PREDICTORS OF BURNOUT AND SPORT SPECIALIZATION PATTERNS OF YOUTH RUNNERS FROM ELEMENTARY SCHOOL TO THE NCAA <i>Rachel Meyers, DPT</i>	
2:18 – 2:24 pm	EXPLORING THE SPORT SPECIALIZATION DECISION-MAKING PROCESS OF YOUTH SPORT FAMILIES: A QUALITATIVE FOCUS GROUP STUDY <i>Chiara Golomb</i>	
2:24 – 2:30 pm	FEAR (ANXIETY), PAIN, AND FEAR OF PAIN WITH MOVEMENT: WHAT PREDICTS POSTURAL CONTROL PERFORMANCE AFTER CONCUSSION? <i>Madison Brna, BS</i>	
2:30 – 2:36 pm	VALIDATION OF THE ACL-RSI SCALE IN PEDIATRIC AND ADOLESCENT PATIENTS <i>Peter D. Fabricant, MD MPH</i>	
2:36 – 2:45 pm	Discussion <i>Shelby Baez, PhD ATC</i>	
2:45 – 3:15 PM	EXHIBIT/SPONSOR BREAK	South Exhibit Hall
3:15 – 4:00 PM	SCIENTIFIC SESSION 5: DIAGNOSIS, TREATMENT, MANAGEMENT OF MEDICAL CONDITIONS AWARD SESSION	Center/North
3:15 – 3:21 pm	Moderator <i>Jane Chung, MD</i>	
3:21 – 3:27 pm	GREATER EXPOSURE TO HIGH MAGNITUDE HEAD IMPACTS ALTERS BRAIN ACTIVITY FOR LOWER EXTREMITY MOTOR CONTROL: A NEUROIMAGING INVESTIGATION IN FEMALE ADOLESCENT ATHLETES <i>Taylor M. Zuleger, BS</i>	
3:27 – 3:33 pm	POST EXERTIONAL AUTONOMIC PUPILLARY LIGHT REFLEX MEASURES IN PATIENTS WITH EXERCISE INTOLERANCE AFTER CONCUSSION <i>Tyler Marx, BS MS</i>	
3:33 – 3:39 pm	POST-CONCUSSION DUAL TASK PERFORMANCE AMONG ADOLESCENTS WITH AND WITHOUT ATTENTION DEFICIT/HYPERACTIVITY DISORDER: A CROSS-SECTIONAL STUDY <i>Joshua R. Kniss, DPT</i>	
3:39 – 3:45 pm	HEAD REPOSITIONING ACCURACY AS A DIAGNOSTIC TOOL FOR ADOLESCENT CONCUSSION <i>Katherine L. Smulligan, DPT</i>	
3:45 – 3:51 pm	UNDERDIAGNOSIS OF PEDIATRIC LATERAL ANKLE AVULSION INJURIES: AN ULTRASOUND STUDY <i>Jacob Jones, MD</i>	
3:51 – 4:00 pm	Discussion <i>Jane Chung, MD</i>	
4:00 – 4:45 PM	SCIENTIFIC SESSION 6: PATELLOFEMORAL INSTABILITY	Center/North
4:00 – 4:06 pm	Moderator <i>Nicole Friel, MD MS</i>	
4:06 – 4:12 pm	THE LATERAL PATELLAR RETINACULUM IS THICKER IN PEDIATRIC AND ADOLESCENT PATIENTS WITH PATELLOFEMORAL INSTABILITY <i>Daniel W. Green, MD MS</i>	
4:12 – 4:18 pm	EARLY POSTOPERATIVE COMPLICATIONS FOLLOWING TIBIAL TUBERCLE OSTEOTOMY IN YOUNG PATIENTS WITH PATELLOFEMORAL INSTABILITY: DOES DISTILIZATION INCREASE RISK? – A MULTICENTER COHORT ANALYSIS <i>Akbar Nawaz Syed, MD</i>	

FRIDAY, JANUARY 26, 2024

4:18 – 4:24 pm	DYSPLASIA WORSENS OVER TIME - TROCHLEAR MORPHOLOGIC CHANGES IN SKELETALLY IMMATURE PATIENTS ACROSS CONSECUTIVE MRI STUDIES <i>Brendan A. Williams, MD</i>	
4:24 – 4:30 pm	RISK FACTOR EVALUATION FOR LOOSE BODY AND CHONDRAL INJURY FOLLOWING FIRST-TIME PATELLAR DISLOCATION <i>David Kell</i>	
4:30 – 4:36 pm	SOCIODEMOGRAPHIC PATIENT CHARACTERISTICS ASSOCIATED WITH TIME TO CARE IN PEDIATRIC PATIENTS WITH TRAUMATIC PATELLAR INSTABILITY <i>Vibav Mouli, MPAS PA-C</i>	
4:36 – 4:45 pm	Discussion <i>Nicole Friel, MD MS</i>	
4:00 – 4:45 PM	SCIENTIFIC SESSION 7: CONCUSSION	South
4:00 – 4:06 pm	Moderator <i>Julie Wilson, MD</i>	
4:06 – 4:12 pm	PEDIATRIC CONCUSSIONS: DELAYED PRESENTATION AT HOSPITAL CLINIC VS. SPECIALITY CARE CLINIC <i>Jonathan Santana, DO</i>	
4:12 – 4:18 pm	THE EFFECT OF A FATIGUE PROTOCOL ON COGNITIVE AND FUNCTIONAL PERFORMANCE IN ADOLESCENTS FOLLOWING CONCUSSION <i>Shane M. Miller, MD</i>	
4:18 – 4:24 pm	THE PROGNOSTIC UTILITY OF IMMEDIATE MEMORY AND DELAYED RECALL ASSESSMENTS FOR ADOLESCENT CONCUSSION <i>Mani Singh, MD</i>	
4:24 – 4:30 pm	EXAMINING DISPARITIES IN THE UTILIZATION OF SPECIALTY CONCUSSION CARE AMONG NON-HISPANIC BLACK AND NON-HISPANIC WHITE PEDIATRIC PATIENTS <i>Phillip Worts, PhD LAT ATC CSCS</i>	
4:30 – 4:36 pm	INFLUENCE OF SELF-REPORTED FATIGUE ON POSTURAL CONTROL ASSESSMENTS AFTER ADOLESCENT CONCUSSION <i>Lindsey E. Kemp, BS</i>	
4:36 – 4:45 pm	Discussion <i>Julie Wilson, MD</i>	
4:45 – 5:30 PM	SCIENTIFIC SESSION 8: FEMALE ATHLETE	Center/North
4:45 – 4:51 pm	Moderator <i>Bianca Edison, MD MS FAAP</i>	
4:51 – 4:57 pm	DUAL-ENERGY X-RAY ABSORPTIOMETRY PERCENT FAT Z-SCORE AS A PREDICTOR OF FEMALE ATHLETE MENSTRUAL STATUS <i>Meghan Keating, MPAS PA-C</i>	
4:57 – 5:03 pm	POINTE READINESS DECISION MAKING IN YOUTH BALLET DANCERS <i>Ashley Erdman, BS</i>	
5:03 – 5:09 pm	COMPARING DIFFERENCES IN FEMALE AMERICAN FOOTBALL INJURIES BETWEEN PRE-HIGH SCHOOL AND HIGH SCHOOL ATHLETES <i>David Mikhail, MD</i>	
5:09 – 5:15 pm	ASSESSMENT OF CHEST WALL OR SHOULDER SENSATION-RELATED CHANGES AND IMPACT OF RETAINED HARDWARE IN ADOLESCENT FEMALES FOLLOWING SURGICAL FIXATION OF MIDSHAFT CLAVICLE FRACTURES <i>Coleen Sabatini, MD</i>	
5:15 – 5:21 pm	NORMATIVE HIP ABDUCTION STRENGTH IN ADOLESCENT FEMALE AESTHETIC ATHLETES <i>Kelly O'Shaughnessy</i>	
5:21 – 5:27 pm	ATHLETIC IDENTITY, ANXIETY, AND DEPRESSION IN ADOLESCENT FEMALE VOLLEYBALL PLAYERS <i>Emily Stapleton</i>	
5:27 -5:30 pm	Discussion <i>Bianca Edison, MD MS FAAP</i>	

4:45 – 5:30 PM	SCIENTIFIC SESSION 9: REHABILITATION	South
4:45 – 4:51 pm	Moderator <i>Alea Penner, PT DPT</i>	
4:51 -4:57 pm	CHANGE IN UNINVOLVED LOWER EXTREMITY QUADRICEPS STRENGTH FROM PRE-SURGERY TO RETURN TO PLAY TESTING FOLLOWING PEDIATRIC ACL RECONSTRUCTION <i>Victor Prati, DPT OCS PT SCS</i>	
4:57 – 5:03 pm	IONTOPHORESIS WITH DEXAMETHASONE IN COMBINATION WITH PHYSICAL THERAPY FOR THE TREATMENT OF PEDIATRIC PATIENTS DIAGNOSED WITH APOPHYSITIS OF THE KNEE: A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED TRIAL <i>Dana Reesman, DPT</i>	
5:03 – 5:09 pm	INTERACTIVE REFERENCE VALUE DASHBOARD FOR PERFORMANCE-BASED AND PATIENT-REPORTED OUTCOME MEASURES IN ADOLESCENTS AND YOUNG ADULTS WITH ACL RECONSTRUCTION <i>Chris Kuenze, ATC PhD</i>	
5:09 – 5:15 pm	CURRENT PRACTICE PATTERNS IN THE REHABILITATION OF CAPITELLUM OSTEOCHONDRITIS DISSECANS: A SURVEY OF THE PEDIATRIC RESEARCH IN SPORTS MEDICINE (PRISM) SOCIETY <i>Michael Saper, ATC CSCS DO</i>	
5:15 – 5:21 pm	BLOOD FLOW RESTRICTION TRAINING DECISION MAKING IN ADOLESCENTS FOLLOWING ANTERIOR CRUCIATE LIGAMENT INJURY <i>Nicholas Giampetruzzi, MS PT</i>	
5:21 – 5:30 pm	Discussion <i>Alea Penner, PT DPT</i>	
5:30 - 6:30 PM	POSTER CRAWL RECEPTION	South Exhibit Hall

FRIDAY, JANUARY 26, 2024

7:00 - 8:00 AM	POSTER VIEWING WITH BREAKFAST	South Exhibit Hall
8:00 - 9:00 AM	<p>INSTRUCTIONAL COURSE 7: PEDIATRIC VS. ADULT MUSCULOSKELETAL ULTRASOUND: WHAT'S THE DIFFERENCE?</p> <p>Ultrasound is a painless, radiation-free, portable imaging modality that can evaluate soft tissues and the cortex of bones. This has led to greater emphasis on ultrasound research and clinical applications in the sports medicine field. Point-of-care musculoskeletal ultrasound continues to be a point of education amongst sports medicine fellowships. Physical therapists are also discovering the usage of this imaging modality in their practices. This has led to an increased competency of healthcare providers being able to use this. However, education and research on MSK ultrasound heavily relies on the identifying abnormalities that are exclusively found in adults. Sports medicine fellowships have developed ultrasound curriculum that includes structures and pathologies for which learners should gain competency. However, of the 215 structures/pathologies recommended, only one of them is specific to pediatrics. Additionally, there is no mention about recognizing normal findings consistent with the growing human body. This has led to common ultrasonographic misinterpretations in pediatric patients. These confusions usually surround the understanding and appearance of physes and other growth cartilage. This can lead to improper information and diagnoses given to young pediatric athletes. This can add to the patients and parents stress levels and lead to unnecessary work-ups and referrals adding to the healthcare burden of the family and the system in general. Therefore, the purpose of the instructional course lecture is to review the basics of ultrasound including what can be seen, what can't be seen, and how to properly interpret ultrasound images. We will then compare adult ultrasound appearance to pediatric ultrasound appearances both with lecture explanations and with a live ultrasound demonstration while also showing common findings in pediatric sports pathologies.</p> <p><i>Joseph Chang, MD, Pediatric MSK Radiologist; Drew Duerson, MD, RMSK, Sports Medicine Provider; Sarah Jackson, MD, RMSK, Sports Medicine Provider; and Jacob Jones, MD, RMSK, Sports Medicine Provider</i></p>	North/Central
8:00 - 9:00 AM	RESEARCH INTEREST GROUP (RIG) UPDATE SESSION	South
9:00 - 9:45 AM	SCIENTIFIC SESSION 10: HEALTH DISPARITIES	North/Central
9:00 - 9:06 am	<p>Moderator <i>Jonathan Santana, DO</i></p>	
9:06 - 9:12 am	<p>DISPARITIES RESEARCH IN PEDIATRIC SPORTS MEDICINE: IS THE NEEDLE MOVING? <i>Eric Durudogan, MD</i></p>	
9:12 - 9:18 am	<p>SOCIAL DETERMINANTS OF HEALTH IMPACTS ACCESS TO CARE FOR PATIENTS WITH OSTEOCHONDRITIS DISSECANS OF THE KNEE AMONG YOUNG PATIENTS - A PROSPECTIVE MULTI-CENTER INVESTIGATION <i>Julianna Lee</i></p>	
9:18 - 9:24 am	<p>BARRIERS AND FACILITATORS TO SPORTS PARTICIPATION AMONG YOUTH WITH TRANSVERSE LOWER LIMB DEFICIENCY OR AMPUTATION: RESULTS OF A MULTI-SITE STUDY <i>Mary Dubon, MD</i></p>	
9:24 - 9:30 am	<p>MOVING THE NEEDLE IN PEDIATRIC SPORTS MEDICINE RESEARCH: A PATHWAY TO SUSTAINABLE AND EQUITABLE COMMUNITY-ENGAGED PARTNERSHIPS TO DIVERSIFY OUR SCIENCE AND PROVIDE INCLUSIVE CARE <i>Jessica Wallace, MD</i></p>	
9:30 - 9:36 am	<p>DISPARITIES IN PEDIATRIC ANTERIOR CRUCIATE LIGAMENT CARE FOR MEDICAID PATIENTS SHOW IMPROVEMENTS FROM 2015-2020: A RETROSPECTIVE DATABASE STUDY <i>Lucas Yongbin Kim, BS</i></p>	
9:36 - 9:45 am	<p>Discussion <i>Jonathan Santana, DO</i></p>	

SATURDAY, JANUARY 27, 2024

9:00 – 9:45 AM	SCIENTIFIC SESSION 11: ACL	South
9:00 – 9:06 am	Moderator <i>Soroush Baghdadi, MD</i>	
9:06 – 9:12 am	CLINICIAN-INFORMED MACHINE LEARNING-BASED PREDICTION OF SECONDARY ANTERIOR CRUCIATE LIGAMENT INJURY RISK AND IDENTIFICATION OF MODIFIABLE RISK FACTORS IN CHILDREN <i>Elliot Greenberg, DPT PhD</i>	
9:12 – 9:18 am	QUADRICEPS TENDON AUTOGRAFT LIGAMENTIZATION PROGRESSION FOLLOWING ACL RECONSTRUCTION IN YOUNG ATHLETES: A PRELIMINARY INVESTIGATION UTILIZING QUANTITATIVE MRI <i>Daniel R. Smith, PhD</i>	
9:18 – 9:24 am	WHAT CONTRIBUTES TO KNEE HYPEREXTENSION IN CHILDREN AND ADOLESCENTS WITH ACL INJURIES? <i>William K. Roache, MD</i>	
9:24 – 9:30 am	STRENGTH PROGRESSION FOLLOWING PRIMARY AND SECONDARY ACL RECONSTRUCTION IN YOUNG PATIENTS <i>Allison E. Crepeau, MD</i>	
9:30 -9:36 am	COMPARISON OF KT-1000 RESULTS IN HAMSTRING AND QUADRICEPS TENDON GRAFT TYPES AFTER ADOLESCENT ACL RECONSTRUCTION <i>Julianna Kennedy, BS</i>	
9:36 – 9:41 am	CHARACTERISTICS OF MOVEMENT 3-MONTHS AFTER PEDIATRIC ACLR DURING A Y-BALANCE TEST ANTERIOR REACH <i>Alexandra C. Stevens, BS</i>	
9:41 – 9:45 am	Discussion <i>Soroush Baghdadi, MD</i>	
9:45 – 10:00 AM	BREAK	
10:00 – 10:45 AM	SCIENTIFIC SESSION 12: MOTION ANALYSIS	Center/North
10:00 – 10:06 am	Moderator <i>Tishya Wren, PhD</i>	
10:06 – 10:12 am	EFFECT OF ANTERIOR CRUCIATE LIGAMENT INJURY ON KNEE MUSCLE COACTIVATION STRATEGY IN PEDIATRIC FEMALES AND MALES <i>Karine Stoelben, PhD PT</i>	
10:12 – 10:18 am	THE ROLE OF FOOT CONTACT ANGLE DURING A DECELERATION TASK <i>Adam Cyr, PhD</i>	
10:18 – 10:24 am	LOWER-EXTREMITY KINEMATICS AND KINETICS DIFFER BASED ON 45-DEGREE CUT TASK VARIATION: AN ASSESSMENT OF METHODOLOGY FOR A RETURN-TO-PLAY PROTOCOL USING MOTION ANALYSIS <i>Jan Karel Petric</i>	
10:24 – 10:30 am	AN ANALYSIS OF KINEMATIC AND KINETIC DIFFERENCES BETWEEN THE SINGLE LEG SAUTÉ AND SINGLE LEG VERTICAL JUMP IN ADOLESCENT DANCERS <i>Eric Dugan, PhD</i>	
10:30 – 10:36 am	AN EXAMINATION OF KINEMATIC AND KINETIC DIFFERENCES BETWEEN THE GRAND Plié AND TRADITIONAL BODYWEIGHT SQUAT EXERCISES IN ADOLESCENT DANCERS <i>Sierra Hastings, DPT PT SCS</i>	
10:36 – 10:45 am	Discussion <i>Tishya Wren, PhD</i>	
10:00 – 10:45 AM	SCIENTIFIC SESSION 13: MENTAL HEALTH AND SELF-REPORTED OUTCOMES	South
10:00 – 10:06 am	Moderator <i>Elliot Greenberg, PT PhD</i>	
10:06 – 10:12 am	DEVELOPMENT OF A VALID AND RELIABLE SELF-REPORT FUNCTIONAL MEASURE FOR ADOLESCENT LOW BACK PAIN <i>Meghan Wiehe, DPT OCS PT</i>	

SATURDAY, JANUARY 27, 2024

Saturday, January 27, 2024

10:12 – 10:18 am	A COMPARISON OF PATIENTS WITH AND WITHOUT SELF-REPORTED PSYCHIATRIC HISTORY AND ADHERENCE TO CONCUSSION TREATMENT GUIDELINES <i>Abel Mathews, PhD</i>	
10:18 – 10:24 am	CHANGES IN QUALITY OF LIFE FOLLOWING PEDIATRIC CONCUSSION <i>Jamie Shoop, PhD</i>	
10:24 – 10:30 am	ANALYSIS OF THE SPORT MENTAL HEALTH ASSESSMENT TOOL (SMHAT-1) IN PEDIATRIC OLYMPIC ATHLETES <i>Travis Anderson, PhD</i>	
10:30 – 10:36 am	SUBJECTIVE SOCIAL STATUS AND MENTAL HEALTH IN ADOLESCENT ATHLETES <i>Makyrá Ross</i>	
10:36 – 10:41 am	PARENTS AND ATHLETES PERCEIVE PAIN AND FUNCTION DIFFERENTLY: A PROMIS DYAD STUDY <i>Corinna Franklin, MD</i>	
10:41 – 10:45 am	Discussion <i>Elliot Greenberg, PT PhD</i>	
10:45 – 11:45 AM	INSTRUCTIONAL COURSE 3: RETURN TO PLAY ACROSS THE SPECTRUM: HOW TO GET EVERYONE BACK SAFELY IN ANY SETTING The gold standard for RTP assessment is instrumented motion analysis conducted in a full gait lab by experts. However, not everyone has a lab available, and not every patient needs the same type of assessment. In this course, we will first demonstrate the gold standard and its biomechanical basis, and then how this may be modified or expanded based on institution or athlete's needs. <i>Kirsten Tulchin-Francis, PhD; Sophia Ulman, PhD; Jeremy Bauer, MD; Ross Chafetz, PT DPT PhD MPH; Mia Katzel, PT DPT; and Emily Sweeney, MD</i>	Center/North
10:45 – 11:45 AM	INSTRUCTIONAL COURSE 4: IF YOU BUILD IT (RIGHT) THEY WILL COME: AN EVIDENCE-BASED APPROACH TO INJURY PREVENTION PROGRAM DESIGN, IMPLEMENTATION AND EVALUATION While many pediatric sports medicine practitioners are familiar with the current sports injury prevention literature, few have the expertise needed to develop a sports injury prevention program of their own. Sports injury prevention research has become increasingly popular over the past several decades. But despite a plethora of evidence demonstrating the effectiveness of these programs, there is little information available to sports medicine practitioners about how to effectively design, implement, or evaluate a program. Considering ongoing efforts to increase sports participation among U.S. children and adolescents, understanding the public health approach to injury prevention and using this approach to effectively design, implement, and evaluate an injury prevention program are essential to protecting the long-term health of sports participants. In this instructional course, the panel will explore the public health foundations of injury prevention programming, discuss several evidence-based behavior change theories, and present practical guidelines to increase stakeholder adoption of preventive behaviors. The panel will also provide attendees with a step-by-step guide to program design, implementation, and evaluation and synthesize program development knowledge and skills through a critical evaluation of recent sports injury prevention program publications. <i>Joseph Janosky, DrPH MSc PT ATC; Amanda M. Black, CAT(C) PhD; Gregory Knell, MS PhD; Robert O'Brien, DrPH(c) MHS PA-C</i>	South
11:45 AM - 12:45 PM	LUNCH: BUSINESS MEETING AND AWARDS CEREMONY	Magic Kingdom Ballroom

SATURDAY, JANUARY 27, 2024

1:00 – 2:00 PM

KEYNOTE PRESENTATION

Center/North

*Nichol Whiteman, Chief Executive Officer
Los Angeles Dodgers Foundation (LADF)*



Under Nichol's leadership, LADF tackles the most pressing problems facing Los Angeles with a mission to improve education, health care, homelessness and social justice for all Angelenos. During Nichol's tenure, LADF launched incredibly impactful programming including Dodgers Dreamteam (formerly Dodgers RBI), a youth development initiative serving more than 12,000 youth today.

As part of LADF's commitment to Southern California communities, the Foundation completed its 50th Dodgers Dreamfield, created a benefit gala, and increased fundraising by 1,000% with Nichol at the helm. Direct programming is only the beginning. Whiteman also advocates for LADF to be a strong charitable partner for nonprofits within the Los Angeles community through strategic grant making that builds capacity and reach.

Collectively, Whiteman has cultivated partnerships that have resulted in more than \$40 million in community investment in the form of direct programs and grant making, impacting over 2.3 million children.

As a Black woman in Major League Baseball, Nichol understands the importance of access. She uses her resources to open doors and opportunities for youth from all backgrounds. In addition to her professional achievements, she mentors countless men and women. With a mighty team that shares her commitment to advocacy, Whiteman aims to deepen the impact of LADF programs and enhance the Foundation's visibility and philanthropic influence across Los Angeles. Appointed to the State of California's Commission on the Status of women and Girls, Nichol now extends her impact beyond Los Angeles as she fights for the opportunities and support that all communities deserve.

A product of Nichol's vision and unwavering dedication, the Los Angeles Dodgers is now the proud owner of an ESPY. Named the 2020 ESPN Sports Humanitarian Team of the Year, the highly-coveted award recognized LADF's work as the team's official charity. Celebrating the team environment that Nichol fosters internally and in the community, the Aspen Institute named LADF as a 2020 Project Play Champion for its new meaningful, and specific work. She has also helped pave the way to LADF receiving the 2020 Beyond Sport Award for Reducing Racial Inequalities, which reflects the Foundation's commitment to strengthening communities through social justice.

2:00 – 2:30 PM

EXHIBIT/SPONSOR BREAK

South Exhibit Hall

2:30 – 3:15 PM

SCIENTIFIC SESSION 14: TREATMENT OUTCOMES

Center/North

2:30 – 2:36 pm

Moderator
Michelle Cappello, PT DPT SCS

2:36 – 2:42 pm

CHARACTERISTICS OF UNSALVAGEABLE OSTEOCHONDRITIS DISSECANS LESIONS FROM THE ROCK PROSPECTIVE COHORT
Henry B. Ellis, Jr., MD

2:42 – 2:48 pm

QUANTIFYING EARLY STRENGTH MEASURES IN ADOLESCENTS FOLLOWING PELVIC APOPHYSEAL AVULSION FRACTURES
Nolan D. Hawkins, BS

2:48 – 2:54 pm

OUTCOME PREDICTORS OF SURGICAL FIXATION IN UNSTABLE KNEE OSTEOCHONDRITIS DISSECANS LESIONS: A PROSPECTIVE MULTICENTER STUDY
Jeffrey Nepple, MD

2:54 – 3:00 pm

LONG-TERM COMPLICATIONS OF PERIPHERAL NERVE BLOCKS IN PEDIATRIC ORTHOPEDIC LOWER EXTREMITY PROCEDURES: A SYSTEMATIC REVIEW
Charlotte Wahle

3:00 – 3:06 pm

FACTORS ASSOCIATED WITH COMPLICATIONS FOLLOWING SURGICAL TREATMENT OF TIBIAL TUBERCLE FRACTURE
Emily Niu, MD

SATURDAY, JANUARY 27, 2024

3:06 – 3:12 pm	ISCHIAL TUBEROSITY APOPHYSEAL AVULSION FRACTURES IN ADOLESCENT ATHLETES: TREATMENT APPROACH AND RETURN TO SPORT <i>Jayson Saleet</i>	
3:12 – 3:15 pm	Discussion <i>Michelle Cappello, PT DPT SCS</i>	
2:30 – 3:15 PM	SCIENTIFIC SESSION 15: INJURY PREVENTION AND EPIDEMIOLOGY	South
2:30 – 2:36 pm	Moderator <i>Amanda Black, CAT(C), PhD</i>	
2:36 – 2:42 pm	NEUROMUSCULAR TRAINING IMPROVES REACTION TIME BUT NOT POSTURAL STABILITY AFTER RETURN-TO-PLAY FOLLOWING CONCUSSION <i>Nathan Howell, MD</i>	
2:42 – 2:48 pm	SWIMMING-RELATED INJURIES AND ILLNESS AT THE 2017, 2013 AND 2009 CANADA GAMES: EXAMINING RISK IN ABLE-BODIED, PARA SPORT AND SPECIAL OLYMPIC EVENTS <i>Caroline E. Hicks-Casey, PhD</i>	
2:48 – 2:54 pm	NEURAL ACTIVITY CHANGES FOLLOWING NEUROMUSCULAR TRAINING IN FEMALE ADOLESCENT ATHLETES: EXPLORING THE IMPACT OF VISUAL BIOFEEDBACK <i>Alexis B. Slutsky-Ganesh, PhD</i>	
2:54 – 3:00 pm	INJURY AND ILLNESS INCIDENCE AMONG PEDIATRIC TEAM USA ATHLETES COMPETING AT THE 2020 TOKYO AND 2022 BEIJING OLYMPIC AND PARALYMPIC GAMES <i>Eric Post, ATC PhD</i>	
3:00 – 3:06 pm	PHYSICAL FITNESS IN TRANSGENDER ADOLESCENTS <i>Sigrid F. Wolf, MD</i>	
3:06 – 3:12 pm	POSITION SPECIFIC INJURY PATTERNS IN ELITE MALE SOCCER ACADEMY PLAYERS <i>Andrew Donaldson, MD</i>	
3:12 – 3:15 pm	Discussion <i>Amanda Black, CAT(C), PhD</i>	
3:15 – 4:15 PM	INSTRUCTIONAL COURSE 5: SMARTER NOT HARDER: TRAIN THE BRAIN STRATEGIES TO PREVENT INJURY AND OPTIMIZE RETURN TO PLAY Anterior cruciate ligament (ACL) injuries remain high, despite concerted effort to reduce risk. The failure to significantly reduce ACL (re)injury risk may be due to practitioners overlooking the modulating role of the central nervous system (CNS). Coupled with technological advances that allow for scalable implementation of augmented and virtual reality sport-specific scenarios, prevention and return-to-play programs that promote adaptive neuroplasticity and evaluate the CNS are now attainable and can accelerate best practices. <i>Greg Myer, PhD; Jed Diekfuss, PhD; and Jenny Hogg, PhD ATC</i>	Center/North
3:15 – 4:15 PM	INSTRUCTIONAL COURSE 6: IMPLEMENTING BEST PRACTICES INTO CONCUSSION CARE: AN UPDATE FROM THE AMSTERDAM CONSENSUS MEETING Concussion care is ever changing with new evidence to support clinical practice being published regularly. This ICL aims to summarize the key recommendations from the 2022 International Consensus Statement from the Amsterdam consensus meeting (published in June 2023). The presentation will present consensus recommendations in the areas of concussion definition, prevention, sideline detection, follow-up assessment, persistent symptoms, defining recovery, return to physical activity and school. Pediatric specific considerations will be highlighted, as well as gaps that are present with the updated statement. A call to action related to pediatric concussion research to inform future statements will be discussed. <i>Tamara Valovich McLeod, PhD ATC; Kristy B. Arbogast, PhD; Christina L. Master, MD; and David R. Howell, PhD ATC</i>	South

SATURDAY, JANUARY 27, 2024

Scientific Posters

ACL		
201	LIMB SYMMETRY AT SLOWER SPEEDS DURING ISOKINETIC TESTING FOLLOWING ACLR MORE STRONGLY INFLUENCE HOP TESTING THAN SYMMETRY AT FASTER SPEEDS.	Jeffrey Nepple (Washington University School of Medicine; Joseph Hannon (St. Louis Children's Hospital)); Paul Jenkins (St. Louis Children's Hospital); David Piskulic (St. Louis Children's Hospital); Jaimie Mains (St. Louis Children's Hospital); Beltran Torres (Washington University in St Louis); Andres Burbano (Washington University in St Louis)
202	COMPARISON OF QUADRICEPS STRENGTH TARGETS ON KNEE-RELATED FUNCTION AMONG YOUTH ATHLETES AFTER ACL RECONSTRUCTION	Thanh Mai (Cincinnati Children's Hospital Medical Center) ; Christin Zwolski (Cincinnati Children's Hospital Medical Center); Staci Thomas (Cincinnati Children's Hospital Medical Center); Mark Paterno (Cincinnati Children's Hospital Medical Center); Gina Gugliotta (Cincinnati Children's Hospital Medical Center); Laura Schmitt (The Ohio State University, College of Medicine)
203	ONE YEAR OUTCOMES OF PATIENTS TREATED WITH ALL-SOFT-TISSUE QUADRICEPS TENDON AUTOGRAFT VERSUS QUADRICEPS TENDON AUTOGRAFT WITH PATELLAR BONE PLUG: A PATIENT-BLINDED PILOT RANDOMIZED CONTROL TRIAL	Whitney Hovater (Children's Hospital Colorado) ; David Howell (Children's Hospital Colorado); Stephanie Mayer (Children's Hospital Colorado); Jay Albright (Children's Hospital Colorado)
204	NOT SO FAST! COMPARING THE TIMELINE FOR QUADRICEPS STRENGTH RECOVERY AFTER ACL RECONSTRUCTION BETWEEN HAMSTRING TENDON AND QUADRICEPS TENDON AUTOGRAFTS	Theodore Ganley (Children's Hospital of Philadelphia); Elliot Greenberg (Children's Hospital of Philadelphia) ; Joshua Bram (Hospital for Special Surgery); Christopher DeFrancesco (Hospital for Special Surgery); Alex Stevens (Children's Hospital of Philadelphia)
206	GRAFT PASSAGE FOR ILIOTIBIAL BAND ACL RECONSTRUCTION AND RISKS FOR NEUROVASCULAR INJURY - DIFFERENCES BETWEEN INSIDE OUT AND OUTSIDE IN GRAFT PASSAGE	Henry Baird (The Medical University of South Carolina); Cassidy Schultz (Scottish Rite for Children); Dane Lind (University of Texas Southwestern); Kevin Shea (Stanford University); Theodore Ganley (Children's Hospital of Philadelphia); Wills Baird (Stanford University); Chiamaka Obilo (Stanford University) ; Henry Ellis (Scottish Rite for Children); Vanessa Taylor (Stanford University); Morgan Swanson (Children's Hospital of Philadelphia); Kevin Landrum (Children's Hospital of Philadelphia); Nicholas Thomas (Florida State University College of Medicine); Yi-Meng Yen (Boston Children's Hospital); Brendan Williams (Children's Hospital of Philadelphia & University of Pennsylvania); Philip Wilson (Scottish Rite for Children); Corinna Franklin (Shriners Hospital for Children); Charles Chan (Stanford University); Mark Tompkins (University of Minnesota); Keith Lustig (Meharry Medical College); Matthew Schmitz (United States Airforce); Luke Ganley (Children's Hospital of Philadelphia)
207	EFFICIENCY OF QUADRICEPS TENDON ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION AT A LARGE TERTIARY CHILDREN'S HOSPITAL VERSUS AT ITS SATELLITE CENTERS	Alexandra Stevens (Children's Hospital of Philadelphia) ; Theodore Ganley (Children's Hospital of Philadelphia)
208	PREDICTABILITY OF 6 MONTH RETURN TO PLAY ASSESSMENT AT 4 MONTHS AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION IN A PEDIATRIC AND ADOLESCENT POPULATION	Jeffrey Nepple (Washington University School of Medicine); Beltran Torres (Washington University in St Louis); Joseph Hannon (St. Louis Children's Hospital); Andres Burbano (Washington University in St Louis)

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CONCUSSION		
210	ASSESSING HEART RATE VARIABILITY IN PEDIATRIC PATIENTS EXHIBITING DYSAUTONOMIA AFTER EXERTIONAL TESTING	Tyler Marx (Midwestern University); Mo Mortazavi (SPARCC); Cindy Ong (SPARCC); James Dill (SPARCC); Leslie Streeter (SPARCC); Jaden Bailey (SPARCC); Jon Minor (SPARCC); Brett Dusenberry (SPARCC); Alicia Chen (SPARCC)
211	SEX DIFFERENCES IN THE ACOUSTIC STARTLE RESPONSE OF ADOLESCENT ATHLETES FOLLOWING CONCUSSION	Jessie Oldham (Virginia Commonwealth University School of Medicine); Daniel Bradford (Oregon State University); Shannon Nagle (Boston Childrens Hospital); Sarah Willwerth (Brown University); Rebekah Mannix (Boston Children's Hospital); William Meehan III (Boston Children's Hospital)
212	TANDEM GAIT IS A MORE RELIABLE MEASURE THAN THE MODIFIED BALANCE ERROR SCORING SYSTEM IN ADOLESCENTS	David Howell (University of Colorado, School of Medicine); Samantha Magliato (University of Colorado, School of Medicine); Katherine Smulligan (University of Colorado Anschutz Medical Campus); Mathew Wingerson (University of Colorado Anschutz Medical Campus); Julie Wilson (Children's Hospital Colorado)
213	RATING THE EVIDENCE STRENGTH AND QUALITY OF CONCUSSION EDUCATION FOR ATHLETES	Emily Kroshus (University of Washington); Ashleigh Johnson (San Diego State University)
214	CORRELATION OF OBJECTIVELY MEASURED SWAY INDEX WITH CLINICAL MEASURES OF BALANCE IN ADOLESCENTS WITH SPORT-RELATED CONCUSSION	Alexander Peters (Impulse Physical Therapy); Jacob McPherson (State University of New York at Buffalo); John Leddy (State University of New York at Buffalo); Mohammad Haider (State University of New York at Buffalo)
215	CONCUSSION DISRUPTS AUDITORY PROCESSING: IS RHYTHM THE ANTI-DOTE?	Cynthia LaBella (Ann & Robert H. Lurie Children's Hospital, Feinberg School of Medicine Northwestern University); Silvia Bonacina (Northwestern University); Matt Nerrie (Northwestern University); Jennifer Krizman (Northwestern University); Nina Kraus (Northwestern University)
216	THE PEDIATRIC ATHLETE WITH PERSISTENT POST CONCUSSIVE SYMPTOMS (PPCS): STAGING, SUBTYPING, AND CLINICAL BIOMARKERS	Tyler Marx (Midwestern University); Alicia Chen (SPARCC); David Tramutolo (University of Missouri St. Louis); Prem Thirunagari (University of Arizona, College of Medicine); Mo Mortazavi (SPARCC); Leslie Streeter (SPARCC); Jon Minor (SPARCC); Brett Dusenberry (SPARCC); Leila Samsam (SPARCC)
217	ASSOCIATIONS AMONG DAILY SYMPTOM BURDEN AND RESPONSE RATE IN CONCUSSED ADOLESCENTS USING MOBILE HEALTH AND REMOTE PATIENT MONITORING	Sicong Ren (Children's Hospital of Philadelphia & University of Pennsylvania); Catherine McDonald (University of Pennsylvania School of Nursing); Daniel Corwin (Children's Hospital of Philadelphia & University of Pennsylvania); Douglas Wiebe (University of Michigan); Christina Master (Children's Hospital of Philadelphia & University of Pennsylvania); Kristy Arbogast (Children's Hospital of Philadelphia & University of Pennsylvania)

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220	ISOLATED POSTERIOR MEDIAL MENISCUS ROOT REPAIR: CLINICAL PRESENTATION, SURGICAL TECHNIQUES, AND CLINICAL OUTCOMES	Kiranpreet Nagra (Hospital for Special Surgery) ; Preston Gross (Hospital for Special Surgery); Ruth Jones (Hospital for Special Surgery); Peter Cirrincione (Hospital for Special Surgery); Danielle Chipman (Hospital for Special Surgery); Alexandra Farrell (Hospital for Special Surgery); Harry Greditzer (Hospital for Special Surgery); Daniel Green (Hospital for Special Surgery); Peter Fabricant (Hospital for Special Surgery)
221	POSTERIOR TIBIAL SLOPE IS ASSOCIATED WITH PEDIATRIC ANTERIOR AND POSTERIOR CRUCIATE LIGAMENT INJURY	Andrew Pennock (Rady Children's Hospital) ; Andrew Zogby (University of California, San Diego); Garrett Rupp (Rady Children's Hospital); Tyler Wilps (University of California, San Diego); Rajiv Vasudevan (University of California, San Diego)
223	SURGICAL TREATMENT AND MRI UTILIZATION IN PEDIATRIC TIBIAL SPINE FRACTURES	Katie Zehner (Yale School of Medicine) ; Meera Dhodapkar (Yale School of Medicine); Estevao Santos (Yale School of Medicine) Elizabeth Gardner (Yale School of Medicine) Jonathan Grauer (Yale School of Medicine)
224	THERE IS A DIFFERENCE IN PREOPERATIVE FEMOROTIBIAL ROTATION IN PEDIATRIC AND ADOLESCENT PATIENTS WITH ANTERIOR CRUCIATE LIGAMENT RUPTURE AND PATELLOFEMORAL INSTABILITY	Daniel Green (Hospital for Special Surgery) ; Emilie Lijesen (Hospital for Special Surgery); Danielle Gorelick (Hospital for Special Surgery); Peter Fabricant (Hospital for Special Surgery); Roger Widmann (Hospital for Special Surgery); Preston Gross (Hospital for Special Surgery); Nicolas Pascual-Leone (Hospital for Special Surgery); Danielle Chipman (Hospital for Special Surgery)
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225	THE ADVANCING HEALTHCARE INITIATIVES FOR UNDERSERVED STUDENTS PROJECT	Shane Caswell (George Mason University) ; Jessie Oldham (Virginia Commonwealth University School of Medicine); Patricia Kelshaw (University of New Hampshire); Samantha Hacherl (George Mason University); Daniel Herman (University of California at Davis); Sanja Avramovic (George Mason University)
226	THE RELATIONSHIP BETWEEN SPORT SPECIALIZATION AND QUALITY OF LIFE IN YOUNG FEMALE DANCERS	Dai Sugimoto (Waseda University) ; Marina Gearhart (Boston Children's Hospital); Bridget Quinn (Boston Childrens Hospital); Andrea Stracciolini (Boston Children's Hospital)

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227	THE RISK OF LOWER EXTREMITY INJURY AND MECHANISM OF INJURY IN ADOLESCENT ATHLETES 12 MONTHS AFTER SUSTAINING A CONCUSSION ARE SIMILAR REGARDLESS OF AGE	Paige Swanson (Texas Children's Hospital); Katy Mitchell (Texas Children's Hospital); Nicole Melfi (Texas Children's Hospital)
228	SPORTS PARTICIPATION AMONG CHILDREN WITH SYMBRACHYDACTYLY	Nina Lightdale-Miric (Children's Hospital Los Angeles-University of Southern California); Abigail Padilla (Children's Hospital Los Angeles); Tishya Wren (Children's Hospital Los Angeles-University of Southern California)
229	THE IMPACT OF AGE: SPORTS SPECIALIZATION, TRAINING VOLUMES, AND YOUTH ATHLETES	Caroline Podvin (Scottish Rite for Children); Sophia Ulman (Scottish Rite for Children); Henry Ellis (Scottish Rite for Children); Bayley Selee (Scottish Rite for Children); David Mikhail (UT Southwestern Medical Center); Bobby Van Pelt (Scottish Rite for Children); Cassidy Schultz (Scottish Rite for Children); Nolan Hawkins (Scottish Rite for Children); Jacob Jones (Scottish Rite for Children); Philip Wilson (Scottish Rite for Children); Claire Clark (Scottish Rite for Children)
230	EMPOWERING ATHLETES VIRTUALLY: AN ADVANCED APPROACH TO ACL INJURY PREVENTION THROUGH AN ONLINE WORKOUT SERIES	Elliot Greenberg (Children's Hospital of Philadelphia); Meredith Link (The Children's Hospital of Philadelphia)
231	THE EFFECT OF POSITION AND LIMB DOMINANCE ON HIP ABDUCTION STRENGTH IN ADOLESCENT FEMALE AESTHETIC ATHLETES	Kelly O'Shaughnessy (Texas Children's Hospital); Nicole Melfi (Texas Children's Hospital); Katy Mitchell (Texas Children's Hospital)
232	THE EFFECT OF BODY IMAGE, SOCIAL MEDIA, AND GENDER ROLES ON SPORTS ATTRITION	Timothy Maul (Nemours Children's Hospital); Paul Enlow (Nemours Children's Health System/AI duPont Hospital for Children); Evan Reich (Cornell University); Cassidy Foley Davelaar (Nemours Children's Hospital)
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233	DISORDERED EATING AND COMPULSIVE EXERCISE BEHAVIORS IN ADOLESCENT ATHLETES: ARE SOCIOECONOMIC FACTORS AND QUALITY OF LIFE AT PLAY?	Aubrey Armento (Children's Hospital Colorado); Casey Little (University of Virginia School of Medicine); Corrine Seehusen (University of New England College of Osteopathic Medicine); Amanda McCarthy (Children's Hospital Colorado); David Howell (University of Colorado, School of Medicine); Madison Brna (Children's Hospital Colorado)
234	PREDICTORS OF SLEEP EFFICIENCY AMONG ADOLESCENTS WITH CONCUSSION	Samuel Messenger (Children's Hospital Colorado); Samantha Magliato (University of Colorado, School of Medicine); Lindsey Kemp (University of Colorado); Katherine Smulligan (University of Colorado Anschutz Medical Campus); Mathew Wingerson (University of Colorado Anschutz Medical Campus); Stacey Simon (University of Colorado Anschutz Medical Campus); Julie Wilson (Children's Hospital Colorado); David Howell (University of Colorado, School of Medicine)
235	GOAL-DRIVEN ATHLETIC BASED INTERVENTIONS POSITIVELY IMPACT DEVELOPMENT OF LIFE SKILLS IN YOUTH: A SYSTEMATIC REVIEW	Nikhil Patel (University of Michigan); Eileen Crawford (University of Michigan); Evan Monge (University of Michigan Medical School); Lauren Hall (University of Michigan Medical School); Dev Patel (University of Michigan Medical School); Ivan Rozhkov (University of Michigan Medical School)
236	EXAMINING FUNCTIONAL REACTION TIME PERFORMANCE AND KINESIOPHOBIA FOLLOWING ADOLESCENT CONCUSSION	Landon Lempke (University of Michigan); Sarah Willwerth (Brown University); Shannon Nagle (Boston Children's Hospital); Rebekah Mannix (Boston Children's Hospital); William Meehan III (Boston Children's Hospital); Jessie Oldham (Virginia Commonwealth University School of Medicine)

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237	RISK-TAKING INTENTIONS AND CONCUSSION NON-DISCLOSURE IN PEDIATRIC ATHLETES	Erica Beidler (Duquesne University) ; Abigail Bretzin (University of Michigan Medical School); Ara Schmitt (Duquesne University)
238	SEX DIFFERENCES IN ENERGY AVAILABILITY, DISORDERED EATING, AND COMPULSIVE EXERCISE BEHAVIORS AMONG ADOLESCENT ATHLETES	Aubrey Armento (Children's Hospital Colorado) ; Madison Brna (Children's Hospital Colorado); Corrine Seehusen (University of New England College of Osteopathic Medicine); Amanda McCarthy (Children's Hospital Colorado); Karin VanBaak (University of Colorado School of Medicine); David Howell (University of Colorado, School of Medicine)
239	THE RELATIONSHIP BETWEEN INJURY HISTORY AND SLEEP QUALITY AMONG ADOLESCENT SOCCER PLAYERS: A PITTSBURGH SLEEP QUALITY INDEX (PSQI) STUDY	Sophia Ulman (Scottish Rite for Children); Alex Loewen (Scottish Rite for Children); Ashley Erdman (Scottish Rite for Children); Sarp Sahin (Scottish Rite for Children)
240	FEASIBILITY OF MENTAL SKILLS TRAINING DURING REHABILITATION AFTER ACL RECONSTRUCTION IN YOUNG ATHLETES	Matthew Milewski (Boston Children's Hospital) ; Melissa Christino (Boston Children's Hospital); Emma Gossman (Boston Children's Hospital); Danielle Cook (Boston Children's Hospital); Dennis Kramer (Boston Children's Hospital); Ryan Coene (Boston Children's Hospital); Kelsey Griffith (The Micheli Center for Sports Injury Prevention)
241	THE "MOST IMPORTANT MEAL OF THE DAY" AND ITS EFFECT ON SLEEP IN A YOUNG ATHLETE POPULATION	Jordan Polk (Scottish Rite for Children) ; Sophia Ulman (Scottish Rite for Children); Ashley Erdman (Scottish Rite for Children); Alex Loewen (Scottish Rite for Children)
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243	ASSOCIATION BETWEEN BEIGHTON SCORE AND BIOMECHANICAL RISK FACTORS AMONG ADOLESCENT, FEMALE VOLLEYBALL PLAYERS	Sophia Ulman (Scottish Rite for Children); Philip Wilson (Scottish Rite for Children); Shane Miller (Scottish Rite for Children); Jacob Jones (Scottish Rite for Children); Charles Wyatt (Scottish Rite for Children); Henry Ellis (Scottish Rite for Children); Alex Loewen (Scottish Rite for Children); James McGinley (Scottish Rite for Children); Ashley Erdman (Scottish Rite for Children); Sarp Sahin (Scottish Rite for Children)
244	ASYMMETRICAL LANDING MECHANICS OBSERVED AT TIME OF RETURN TO SPORT IN PATIENTS WITH PATELLOFEMORAL INSTABILITY	Philip Wilson (Scottish Rite for Children); Henry Ellis (Scottish Rite for Children); Benjamin Johnson (Scottish Rite for Children); Charles Wyatt (Scottish Rite for Children); Zachariah Samuel (The CUNY School of Medicine); Sophia Ulman (Scottish Rite for Children); Alex Loewen (Scottish Rite for Children)
245	ASSOCIATION BETWEEN PREOPERATIVE ANATOMY AND LANDING MECHANICS AT TIME OF RETURN TO SPORT IN PATIENTS WITH PATELLOFEMORAL INSTABILITY	Zachariah Samuel (The CUNY School of Medicine) ; Sophia Ulman (Scottish Rite for Children); Charles Wyatt (Scottish Rite for Children); Alex Loewen (Scottish Rite for Children); Mitchell Ekdahl (Scottish Rite for Children); Henry Ellis (Scottish Rite for Children); Philip Wilson (Scottish Rite for Children)
246	BIOMECHANICAL CHANGES IDENTIFIED DURING A MARATHON RACE AMONG HIGH-SCHOOL RUNNERS	Danielle Hunt (Boston Children's Hospital); Sarah Willwerth (Brown University); Pierre d'Hemecourt (Boston Children's Hospital); William Meehan III (Boston Children's Hospital); Kristin Whitney (Boston Children's Hospital); Alexandra DeJong Lempke (University of Michigan)

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247	RELIABILITY OF COUNTERMOVEMENT JUMP IMPULSE ASYMMETRIES IN ADOLESCENT ATHLETES FOLLOWING ACL RECONSTRUCTION	Eric Dugan (Texas Childrens Hospital and Baylor College of Medicine); Sierra Hastings (Texas Children's Hospital); Cara Masterson (Texas Children's Hospital)
248	DUAL-TASK NEUROPHYSIOLOGY AND BIOMECHANICS AFTER ACL RECONSTRUCTION AND RISK PREDICTION FOR SECONDARY INJURY	Patrick Ledwidge (Western Kentucky University); Alex Morgan (Baldwin Wallace University); Jennifer Kadlowec (Baldwin Wallace University); Aaron Montgomery (Baldwin Wallace University); John Abt (Children's Health Andrews Institute); John Polousky (Akron Children's Hospital); Melanie Morscher (Akron Children's Hospital); Jacob Calcei (University Hospitals Cleveland Medical Center/ Case Western Reserve University); James Voos (University Hospitals Cleveland Medical Center/ Case Western Reserve University)
249	ISOTEMPORAL SUBSTITUTION MODELING: A NOVEL APPROACH TO ESTIMATING THE EFFECTS OF TIME SPENT IN PHYSICAL ACTIVITY ON CONCUSSION RECOVERY	Mathew Wingerson (University of Colorado Anschutz Medical Campus); Katherine Smulligan (University of Colorado Anschutz Medical Campus); Patrick Carry (University of Colorado Anschutz Medical Campus); Samantha Magliato (University of Colorado, School of Medicine); Julie Wilson (Children's Hospital Colorado); David Howell (University of Colorado, School of Medicine)
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250	TRENDS IN MENISCAL REPAIRS AND PARTIAL MENISCECTOMIES IN THE PEDIATRIC POPULATION IN NEW YORK STATE FROM 2012-2019	Katherine Rizzone (University of Rochester Medical Center); Alexandria Giese (University of Rochester Medical Center); Stefanija Kinzy (University of Rochester Medical Center); Bianca Duah (University of Rochester Medical Center); Gabriel Ramirez (University of Rochester Medical Center); Mina Botros (University of Rochester Medical Center); Caroline Thirukumaran (University of Rochester Medical Center); Sarah Lander (University of Rochester Medical Center)
251	AGE-BASED DIFFERENCES IN CHARACTERISTICS OF PEDIATRIC DISCOID LATERAL MENISCUS	Emily Niu (Children's National Medical Center); Jennifer Sheasley (University of Washington); Maya Gopalan (Seattle Children's Hospital); Gregory Schmale (Seattle Children's Hospital); Jie Nguyen (Children's Hospital of Philadelphia); Jennifer Beck (Boulder Medical Center); Benton Heyworth (Boston Children's Hospital); John Schlechter (Children's Hospital of Orange County); Daniel Green (Hospital for Special Surgery); Brian Haus (UC Davis); Jay Lee (Johns Hopkins Hospital); Marie-Lyne Nault (CHU Sainte-Justine); Craig Finlayson (Ann & Robert H. Lurie Children's Hospital); Zachary Stinson (Nemours Children's Hospital); Sasha Carsen (Children's Hospital of Eastern Ontario); Apeksha Gupta (Seattle Children's Hospital)
252	QUADRICEPS STRENGTH ASYMMETRIES IN MEDIAL PATELLAR FEMORAL LIGAMENT RECONSTRUCTION AT 3 MONTHS, AN OBSERVATIONAL STUDY	Daniel Karam (Nationwide Children's Hospital); Jessica Hock (Nationwide Children's Hospital); Thomas Schindler (Nationwide Children's Hospital); Mitchell Selhorst (Nationwide Children's Hospital); Katie Lullo (Nationwide Children's Hospital); Joshua Kempton (Nationwide Children's Hospital)
253	EXTENSION LOSS MORE COMMON IN SURGICALLY TREATED DISCOID MENISCUS YOUNGER THAN 10 YEARS OLD	Henry Baird (The Medical University of South Carolina); Scott McKay (Texas Children's Hospital); Kevin Latz (Children's Mercy Hospital); Members of The SCORE Registry (Scottish Rite for Children)

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254	TRENDS IN OPERATIVE MANAGEMENT OF PATELLOFEMORAL JOINT INSTABILITY: AN AMERICAN BOARD OF ORTHOPAEDIC SURGERY (ABOS) PART II DATABASE STUDY	Fredrick Azar (Campbell Clinic); David Bernholt (Campbell Clinic); David Spence (Campbell Clinic); Thomas Throckmorton (Campbell Clinic); Tyler Brolin (Campbell Clinic); Kailey Mansour (Campbell Clinic)
255	SAFETY PROFILE FOLLOWING TIBIAL TUBERCLE OSTEOTOMY FOR ADOLESCENTS IN AN AMBULATORY SURGERY CENTER	Garrett Sohn (University of Texas Southwestern Medical Center); Nolan Hawkins (Scottish Rite for Children) ; Caroline Podvin (Scottish Rite for Children); Benjamin Johnson (Scottish Rite for Children); Charles Wyatt (Scottish Rite for Children); Henry Ellis (Scottish Rite for Children); Philip Wilson (Scottish Rite for Children); Madison Brenner (Scottish Rite for Children); Savannah Cooper (Scottish Rite for Children)
256	PREDICTIVE CHARACTERISTICS OF MENISCAL TEAR LOCATIONS WITH CONCOMITANT ACL INJURY AMONG ADOLESCENTS	Savannah Troyer (Children's Hospital Colorado) ; David Howell (University of Colorado, School of Medicine); Curtis VandenBerg (University of Southern California, Keck School of Medicine); Jay Albright (Children's Hospital Colorado); Claire Giachino (Children's Hospital Colorado); Hannah Rossing (Children's Hospital Colorado); Amanda Kass (Ann & Robert H. Lurie Children's Hospital); Neeraj Patel (Ann & Robert H. Lurie Children's Hospital)
257	A SYSTEMATIC REVIEW COMPARING OPEN AND ARTHROSCOPIC MANAGEMENT OF POSTERIOR TIBIAL SPINE AVULSION FRACTURES IN CHILDREN	Christopher Jayne (Creighton University) ; Nikolaos Paschos (Massachusetts General Hospital); Giovanna Medina (Massachusetts General Hospital); Brian Grottkau (Massachusetts General Hospital)
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258	VALIDATION OF VALD FORCEDECKS VERSUS GOLD STANDARD FORCE PLATES USING RATE OF FORCE DEVELOPMENT MEASURES	Sophia Ulman (Scottish Rite for Children); Elliot Greenberg (Children's Hospital of Philadelphia); Valentina Graci (Children's Hospital of Philadelphia); Fernando Trevino (Scottish Rite for Children); Jacob Landers (Scottish Rite for Children); Ashley Erdman (Scottish Rite for Children); Alex Loewen (Scottish Rite for Children); Hannah Olander (Scottish Rite for Children)
259	BUCKETS VS. BRACES: IS THROW COUNT A BETTER PREVENTATIVE MEASURE FOR INJURY IN YOUTH THROWERS?	Remy Zimmerman (Children's Hospital of Orange County); Charles Kim (Children's Hospital of Orange County); Nicholas Bast (Children's Hospital of Orange County) ; Kiran Athreya (Children's Hospital of Orange County); John Schlechter (Children's Hospital of Orange County)
260	UPPER EXTREMITY INJURY RISK FACTOR PREVALENCE AMONG ADOLESCENT BASEBALL PLAYERS	Joseph Janosky (Hospital for Special Surgery) ; Lisa Ipp (Hospital for Special Surgery); James Russomano (Hospital for Special Surgery); Kathryn McElheny (Hospital for Special Surgery); Robert Andrews (Hospital for Special Surgery); David Wang (Hospital for Special Surgery); Joshua Dines (Hospital for Special Surgery); Michael Fu (Hospital for Special Surgery); Connor Duscha (Hospital for Special Surgery); Terrance Sgroi (Hospital for Special Surgery); James Malone (Hospital for Special Surgery); Alexandra Henderson (Hospital for Special Surgery); James Carr (Hospital for Special Surgery)
261	RELATIONSHIPS BETWEEN PERFECTIONISM BEHAVIORS AND OVERUSE RUNNING-RELATED INJURY IN HIGH SCHOOL CROSS-COUNTRY RUNNERS	Mitchell Rauh (San Diego State University) ; Michelle Weber Rawlins (San Diego State University)

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262	UCL ULTRASOUND IN UNINJURED GYM-NASTS	Bahaureh Tanya Mohseni (Boston Childrens Hospital); Sarah Jackson (Boston Childrens Hospital); Andrea Bauer (Boston Childrens Hospital); Mayela Leal Chanchi (Boston Childrens Hospital); Donald Bae (Boston Childrens Hospital); Danielle Hunt (Boston Children’s Hospital); Danielle Cook (Boston Childrens Hospital); Shannon Nagle (Boston Childrens Hospital); Elspeth Hart (Boston Childrens Hospital)
263	INTERNAL CONSISTENCY AND ITEM RESPONSE CHARACTERISTICS OF THE CONCUSSION QUALITY OF LIFE SCALE-YOUTH	Tamara McLeod (A.T. Still University); Kenneth Lam (A.T. Still University); Alison Snyder Valier (A.T. Still University); R. Curtis Bay (A.T. Still University)
264	6-MONTH RETURN TO SPORT TESTING DOES NOT PREDICT SHORT-TERM PATIENT-REPORTED OUTCOMES AFTER ARTHROSCOPIC SHOULDER SURGERY IN ADOLESCENT PATIENTS	Michael Saper (Seattle Children’s Hospital); Chris Wong (Seattle Children’s Hospital); Dylan Roman (Connecticut Childrens)
265	NEUROMUSCULAR TRAINING ENHANCED WITH SELF-GUIDED INTERACTIVE BIOFEEDBACK TECHNOLOGY IMPROVES BIOMECHANICAL PROFILES IN YOUNG SOCCER FEMALE ATHLETES	Jennifer Hogg (University of Tennessee Chattanooga); Christopher Riehm (Emory Sports Performance And Research Center (SPARC)); Scott Bonnette (Cincinnati Children’s Hospital Medical Center); Staci Thomas (Cincinnati Children’s Hospital Medical Center); Christopher DiCesare (Exponent, Inc.); Andrew Schille (Emory Sports Performance And Research Center (SPARC)); Jake Slaton (Emory Sports Performance And Research Center (SPARC)); Manish Anand (Emory Sports Performance And Research Center (SPARC)); Adam Kiefer (University of North Carolina at Chapel-Hill); Jed Diekfuss (Emory Sports Performance And Research Center (SPARC)); Brooke Gadd (Emory Sports Performance And Research Center (SPARC)); Kim Barber-Foss (Emory Sports Performance And Research Center (SPARC)); Dustin Grooms (Ohio Musculoskeletal & Neurological Institute, Ohio University); Janet Simon (Ohio Musculoskeletal & Neurological Institute, Ohio University); Tessa Hulburt (Emory Sports Performance And Research Center (SPARC)); April McPherson (Emory Sports Performance And Research Center (SPARC)); Erich Petushek (Michigan Technological University); Destin Hill (Emory University School of Medicine); Neeru Jayanthi (Emory University School of Medicine); Michael Riley (University of Cincinnati); Gregory Myer (Emory Sports Performance And Research Center (SPARC))

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301	PRE-EXISTING FEMOROACETABULAR IMPINGEMENT IS ASSOCIATED WITH PELVIC AVULSION FRACTURES IN ADOLESCENTS: A MATCHED COHORT STUDY	Eduardo Novais (Boston Children's Hospital); Miles Batty (Boston Children's Hospital) ; Sarah Bixby (Boston Children's Hospital); Benton Heyworth (Boston Children's Hospital); Samantha Ferraro (Boston Children's Hospital); Patricia Miller (Boston Children's Hospital)
302	ARE SUBJECTIVE OUTCOMES RELATED TO HOP PERFORMANCE IN PEDIATRIC INDIVIDUALS WITH ANTERIOR CRUCIATE LIGAMENT DEFICIENT KNEE?	Karine Stoelben (Children's Hospital of Eastern Ontario Research Institute) ; Elese St Louis (University of Ottawa); Blake Miller (University of Ottawa); Sasha Carsen (Children's Hospital of Eastern Ontario); Daniel Benoit (University of Ottawa)
303	SEX DIFFERENCES IN QUALITY-OF-LIFE MEASURES AMONG ADOLESCENTS WITH AND WITHOUT CONCUSSION	Katherine Smulligan (University of Colorado Anschutz Medical Campus) ; Samantha Magliato (University of Colorado, School of Medicine); Mathew Wingerson (University of Colorado Anschutz Medical Campus); David Howell (University of Colorado, School of Medicine); Julie Wilson (Children's Hospital Colorado, Sports Medicine Center); Madison Brna (Children's Hospital Colorado); Aubrey Armento (Children's Hospital Colorado)
304	POST-OPERATIVE PAIN AND DEPRESSION IN CHILDREN MONTHS AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION	Christopher Renjilian (Children's Hospital of Pennsylvania); Gabrielle Forestier (Children's Hospital of Pennsylvania)
305	RELATIONSHIP OF KNEE ADDUCTION MOMENT TO LOWER EXTREMITY SEGMENT ACCELERATION DURING SPORT-SPECIFIC MOVEMENTS	Mitchell Ekdahl (Scottish Rite for Children) ; Sophia Ulman (Scottish Rite for Children); Lauren Butler (Children's Hospital Los Angeles - University of Southern California)
306	TEMPORARY HEMI-EPIPHYSECTOMY WITH TENSION BAND PLATES IN SKELETALLY IMMATURE PATIENTS WITH GENU VALGUM: FASTER CORRECTION IN PATIENTS WITH MORE THAN 2 YEARS OF EXPECTED TIME OF GROWTH REMAINING	Daniel Green (Hospital for Special Surgery) ; Emilie Lijesen (Hospital for Special Surgery); Danielle Gorelick (Hospital for Special Surgery); Joseph Hawes (Hospital for Special Surgery); Peter Cirrincione (Hospital for Special Surgery); Danielle Chipman (Hospital for Special Surgery); Damiano Salvato (Hospital for Special Surgery)
307	HEALTH LITERACY IN URBAN AND RURAL HIGH SCHOOL ATHLETES RELATIVE TO STATE-BASED CONCUSSION EDUCATION REQUIREMENTS	Mary Margaret Williamson (University of Alabama); Wes Bryant (University of Alabama); Jessica Wallace (University of Alabama); Erica Beidler (Duquesne University); Emily Jones (University of Alabama)
308	QUALITATIVE MOVEMENT ASSESSMENT DURING A SINGLE LEG TRIPLE HOP AND CORRELATION TO CLINICAL PERFORMANCE MEASURES FOLLOWING ACL RECONSTRUCTION	Casey Huse (Children's Hospital of Philadelphia) ; Meredith Link (The Children's Hospital of Philadelphia); Elliot Greenberg (Children's Hospital of Philadelphia); Eli Epstein (Children's Hospital of Philadelphia); Tyler Betteridge (Arcadia University); Zachary Kronick (Arcadia University); Katie Freyberger (Arcadia University); Tess Vanderwerf (Arcadia University); Dan Gazaille (Arcadia University)
309	ADDITION OF A LATERAL EXTRA-ARTICULAR PROCEDURE TO ACL RECONSTRUCTION DOES NOT INCREASE EARLY COMPLICATIONS IN PEDIATRIC PATIENTS	Neeraj Patel (Ann & Robert H. Lurie Children's Hospital of Chicago) ; Sam Rosenberg (Ann & Robert H. Lurie Children's Hospital of Chicago); Elizabeth Merritt (Ann & Robert H. Lurie Children's Hospital of Chicago)
310	AN ULTRASTRUCTURAL ANALYSIS OF THE DEVELOPING HUMAN ANTERIOR CRUCIATE LIGAMENT TIBIAL ENTHESIS	Sofia Hidalgo Perea (Hospital for Special Surgery) ; Tyler Upstrom (Hospital for Special Surgery); Kenneth Lin (Hospital for Special Surgery); Craig Klinger (Hospital for Special Surgery); Timothy Bromage (New York University, New York University); Kevin Shea (Stanford University); Daniel Green (Hospital for Special Surgery); Scott Rodeo (Hospital for Special Surgery)

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311	FACTORS ASSOCIATED WITH KNEE LOADING ARE DIFFERENT IN DOMINANT AND NON-DOMINANT LIMBS FOLLOWING ACL-RECONSTRUCTION	Craig Garrison (Memorial Hermann); Shiho Goto (Texas Health Sports Medicine) ; Caitlin Nadolny (Texas Health Sports Medicine); Joseph Hannon (St. Louis Children's Hospital); Lindsey Dietrich (Sideline Orthopedics and Sports)
312	THE IMPACT OF DEMOGRAPHIC RISK FACTORS ON THE CARE OF OPERATIVE AND NON-OPERATIVE PEDIATRIC TIBIAL EMINENCE FRACTURES	Gabriella Gonzales (Nationwide Children's Hospital); Christopher Jackson (Nationwide Children's Hospital); Craig Smith (Nationwide Children's Hospital); James MacDonald (Nationwide Children's Hospital)
313	RISK FACTORS FOR INJURY OVER 12-WEEKS IN HEALTHY PEDIATRIC ATHLETES	Mia Katzel (Children's Hospital Los Angeles); Sarah Adams (University of Southern California, Keck School of Medicine) ; Tishya Wren (Children's Hospital Los Angeles - University of Southern California)
314	ACL INJURY PREVENTION PROGRAMS IN YOUTH ATHLETES: WHAT DO PARENTS REALLY KNOW?	Paola Sparagana (Scottish Rite for Children) ; Henry Ellis (Scottish Rite for Children); Bayley Selee (Scottish Rite for Children); Zachary Stinson (Nemours Children's Hospital); Jennifer Beck (UCLA); Matthew Ellington (Dell Medical School, University of Texas at Austin); Stephanie Mayer (Children's Hospital Colorado); Andrew Pennock (Rady Children's Hospital); Curtis VandenBerg (University of Southern California, Keck School of Medicine); Emily Niu (Children's National Medical Center); Allison Crepeau (Connecticut Children's); Sasha Carsen (Children's Hospital of Eastern Ontario); Aristides Cruz Jr. (Brown University Warren Alpert Medical School); Kelly Vanderhave
315	INCREASED RISK OF PATELLOFEMORAL INSTABILITY EVENTS AND SURGICAL MANAGEMENT IN PATIENTS WITH JOINT HYPERMOBILITY SYNDROMES: A MATCHED COHORT ANALYSIS	Michael Kutschke (Brown University) ; James Albright (Brown University Warren Alpert Medical School); Aristides Cruz Jr. (Brown University Warren Alpert Medical School); Alan Daniels (Brown University Warren Alpert Medical School); Brett Owens (Brown University Warren Alpert Medical School)
316	STRONG ASSOCIATION BETWEEN GROWTH HORMONE THERAPY AND PROXIMAL TIBIAL PHYSEAL AVULSION FRACTURES: A CASE-CONTROL STUDY	Peter Fabricant (Hospital for Special Surgery); Daniel Green (Hospital for Special Surgery); ikson Nichols (Hospital for Special Surgery); Preston Gross (Hospital for Special Surgery); Samuel Beber (Hospital for Special Surgery)
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319	COMPARISON OF ANXIETY AND DEPRESSIVE SYMPTOMS AMONG ADOLESCENTS AFTER CONCUSSION AND ACL INJURIES	Eileen Storey (Children's Hospital of Philadelphia) ; Theodore Ganley (Children's Hospital of Philadelphia); Catherine McDonald (University of Pennsylvania School of Nursing); Christina Master (Children's Hospital of Philadelphia & University of Pennsylvania); Kristy Arbogast (Children's Hospital of Philadelphia & University of Pennsylvania); Matthew Grady (Children's Hospital of Philadelphia & University of Pennsylvania); Jamie Shoop (Children's Hospital of Philadelphia); Lia McNeely (Children's Hospital of Philadelphia)
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321	SYMPTOM SEVERITY AND HEALTH-RELATED QUALITY OF LIFE AMONG ADOLESCENTS FOLLOWING CONCUSSION	Lailah Farmer (Cincinnati Children's Hospital Medical Center); Laine Anthony (University of Cincinnati); Jason Hugentobler (Cincinnati Children's Hospital Medical Center); Christin Zwolski (Cincinnati Children's Hospital Medical Center); Anne Lennon (Cincinnati Children's Hospital Medical Center)
322	OBESITY AND PUBLIC INSURANCE ARE ASSOCIATED WITH INCREASED TIME TO MRI AND SURGERY IN ADOLESCENT ATHLETES WITH ANTERIOR CRUCIATE LIGAMENT INJURY	Michael Saper (Seattle Children's Hospital); Mia Hagen (University of Washington); Jonathan Gatto (University of Washington); Ananth Iyer (University of Washington); Gregory Schmale (Seattle Children's Hospital); Joseph Sliepka (University of Washington)
323	STRIDES TOWARDS CONFIDENT RECOGNITION OF CONCUSSION SYMPTOMS BY COACHES IN YOUTH SPORTS	Ann Guernon (Lewis University) ; Christina Papadimitriou (Oakland University); Paul Wright (Northern Illinois University); Beverly Henry (Northern Illinois University); Jennifer Weaver (Colorado State University); Kendra Jorgensen-Wagers (Defense and Veterans Brain Injury Center); Maureen Gannon (Lewis University)
324	COMPLICATIONS ASSOCIATED WITH QUADRICEPS TENDON HARVEST FOR ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION IN PEDIATRIC PATIENTS	Daniel Green (Hospital for Special Surgery) ; Emilie Lijesen (Hospital for Special Surgery); Lori Asaro (Hospital for Special Surgery); Danielle Gorelick (Hospital for Special Surgery); Kenneth Lin (Hospital for Special Surgery); Frank Cordasco (Hospital for Special Surgery); Danielle Chipman (Hospital for Special Surgery); Sofia Hidalgo Perea (Hospital for Special Surgery)
325	PREDICTORS OF GRIT AMONG ADOLESCENTS UNDERGOING ACL RECONSTRUCTION	Claire Giachino (Children's Hospital Colorado) ; David Howell (University of Colorado, School of Medicine); Savannah Troyer (Children's Hospital Colorado); Hannah Rossing (Children's Hospital Colorado); Aubrey Armento (Children's Hospital Colorado); Neeraj Patel (Ann & Robert H. Lurie Children's Hospital of Chicago); Amanda Kass (Ann & Robert H. Lurie Children's Hospital of Chicago); Curtis Vandenberg (University of Southern California, Keck School of Medicine); Jay Albright (Children's Hospital Colorado)
326	DIFFERENCES IN ATHLETIC IDENTITY, SPORT PARTICIPATION, AND PSYCHOSOCIAL FACTORS FOLLOWING ANTERIOR CRUCIATE LIGAMENT REHABILITATION IN YOUTH ATHLETES	James McGinley (Scottish Rite for Children) ; Emily Stapleton (Scottish Rite for Children); Emily Gale (Scottish Rite for Children); Hannah Worrall (Scottish Rite for Children); Caroline Podvin (Scottish Rite for Children); Henry Ellis (Scottish Rite for Children); Philip Wilson (Scottish Rite for Children); Sophia Ulman (Scottish Rite for Children)
327	THE RELATIONSHIP BETWEEN CHILD OPPORTUNITY INDEX AND OUTCOMES AFTER ADOLESCENT ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION	Dylan Roman (Connecticut Childrens) ; Adam Weaver (Connecticut Childrens); Chris Kuenze (University of Virginia)
328	RISK OF ACUTE COMPARTMENT SYNDROME IN PEDIATRIC PATIENTS WITH TIBIAL TUBERCLE AVULSION FRACTURES: A RETROSPECTIVE REVIEW	Michael Bergen (Brown University Warren Alpert Medical School) ; Emil Vutescu (Brown University Warren Alpert Medical School); Samuel McKinnon (Brown University Warren Alpert Medical School); Neal Canastra (Brown University Warren Alpert Medical School); Alexandre Boulos (Brown University Warren Alpert Medical School); Jonathan Schiller (Brown University Warren Alpert Medical School); Craig Ebersson (Brown University Warren Alpert Medical School); Aristides Cruz Jr. (Brown University Warren Alpert Medical School)

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329	PREVALENCE OF CONCUSSION-LIKE SYMPTOMS AND REPORTING BEHAVIOURS AMONG MALE AND FEMALE STUDENT-ATHLETES IN CANADA	Amanda Black (Sport Injury Prevention Centre, University of Calgary) ; Aura Wetherell (Sport Injury Prevention Centre, Faculty of Kinesiology, University of Calgary); Kate Turcotte (BC Injury Research and Prevention Unit); Taryn Taylor (Carleton Sport Medicine Clinic, Carleton University); Shazya Karmali (BC Injury Research and Prevention Unit); Shelina Babul (BC Injury Research and Prevention Unit)
331	FACTORS ASSOCIATED WITH RETURN TO SPORT IN FRIEBERG INFRACTION	Basel Touban (Texas Childrens Hospital and Baylor College of Medicine); Barkha Chhabra (Texas Childrens Hospital and Baylor College of Medicine); John Miggins (Baylor College of Medicine, Baylor College of Medicine); Indranil Kushare (Texas Childrens Hospital and Baylor College of Medicine)
332	USE OF THE ATHLETE PSYCHOLOGICAL STRAIN QUESTIONNAIRE IN ADOLESCENT ATHLETES REFERRED FOR MENTAL HEALTH EVALUATION	Casey Lawless (Children's Mercy) ; Chelsey Bowman (Children's National Hospital)
333	POSTOPERATIVE OUTCOMES OF ISCHIAL TUBEROSITY AVULSION FRACTURE IN ADOLESCENTS	Matthew Brown (Connecticut Childrens); Adam Weaver (Connecticut Childrens); Jennifer Prue (Connecticut Childrens); Julianna Kennedy (Trinity College); Matt Titus (Children's Hospital Philadelphia)
334	OSTEOCHONDRITIS DISSECANS OF THE FEMORAL CONDYLE AND CORONAL MALALIGNMENT: AN EVALUATION OF THE DEMOGRAPHICS, INCIDENCE, AND SEVERITY OF DISEASE	Claire Clark (Scottish Rite for Children) ; Benjamin Johnson (Scottish Rite for Children); Charles Wyatt (Scottish Rite for Children); Bayley Selee (Scottish Rite for Children); Philip Wilson (Scottish Rite for Children); Henry Ellis (Scottish Rite for Children)
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339	TIBIAL TUBERCLE OSTEOTOMY IN THE ADOLESCENT MANAGEMENT OF PATELLOFEMORAL INSTABILITY- A MULTICENTER REVIEW OF RADIOGRAPHIC INDICATIONS	David Kell (The Children's Hospital of Philadelphia); Akbar Syed (The Children's Hospital of Philadelphia); Kevin Orellana (The Children's Hospital of Philadelphia) ; Brendan Williams (Children's Hospital of Philadelphia & University of Pennsylvania); J.Todd Lawrence (Children's Hospital of Philadelphia & University of Pennsylvania); Neeraj Patel (Ann & Robert H. Lurie Children's Hospital of Chicago); Max Jacobs (Ann & Robert H. Lurie Children's Hospital of Chicago); Alexandra Dejneka (Ann & Robert H. Lurie Children's Hospital of Chicago)

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340	ASSESSMENT OF ACCEPTABILITY AND ADHERENCE OF TREATMENT PROTOCOL IN SPORT-RELATED CONCUSSIONS	Alison Datoč (Children’s Health Andrews Institute); Carrie Jones (Children’s Health Andrews Institute); Scott Burkhart (Children’s Health Andrews Institute); Abel Mathew (Children’s Health Andrews Institute); John Abt (Children’s Health Andrews Institute); Christine Ellis (Children’s Health Andrews Institute); Sarah Boucher (UT Southwestern Medical Center); Gregory Knell (UTHealth School of Public Health); Nicole Minor (Children’s Health Andrews Institute)
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343	SURGICAL MANAGEMENT AND OUTCOMES OF PATELLAR INSTABILITY IN HISPANIC ADOLESCENTS MIRRORS THE GENERAL ADOLESCENT POPULATION	Jose Morales (University of California, Riverside School of Medicine) ; Roland Howard (University of California, San Diego); Eric Edmonds (Rady Children’s Hospital); Angel Ordaz (University of California, San Diego); Tracey Bastrom (Rady Children’s Hospital)
344	INVOLVED LIMB KNEE VALGUS DURING A CUTTING MANEUVER IS THE STRONGEST PREDICTOR OF SECOND ANTERIOR CRUCIATE LIGAMENT (ACL) INJURY AFTER PRIMARY ACL RECONSTRUCTION IN YOUTH ATHLETES	Lauren Butler (Florida International University) ; Dai Sugimoto (Waseda University and The Micheli Center for Sports Injury Prevention); Alexa Martinez (Nicklaus Children’s Hospital); Mina Entessari (Wake Forest Baptist Medical Center); Gabriel Cardenas
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346	EVALUATING THE OUTCOMES OF TROCHLEOPLASTY IN THE TREATMENT OF PATELLOFEMORAL INSTABILITY IN THE ADOLESCENT AND YOUNG ADULT KNEE WITH SEVERE TROCHLEAR DYSPLASIA: A MINIMUM 2 YEAR FOLLOW UP	John Schlechter (Children’s Hospital of Orange County) ; Adam Kreutzer (CHOC Children’s Hospital); Remy Zimmerman (Children’s Hospital of Orange County); Charles Kim (Children’s Hospital of Orange County)
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348	AGE- AND SEX-SPECIFIC DIFFERENCES IN NUTRITION-RELATED RISK FACTORS IDENTIFIED POST-OPERATIVELY IN PATIENTS TREATED FOR A LOWER EXTREMITY INJURY	Caroline Podvin (Scottish Rite for Children) ; Henry Ellis (Scottish Rite for Children); Sophia Ulman (Scottish Rite for Children); Taylor Morrison (Scottish Rite for Children); Jessica Dabis (Scottish Rite for Children)

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351	MALE GENDER AND SKELETAL MATURITY ARE PATIENT-SPECIFIC RISK FACTORS FOR INCREASED POSTERIOR TIBIAL SLOPE IN PEDIATRIC AND ADOLESCENT PATIENTS	Todd Phillips (Baylor College of Medicine); Brenden Ronna (Baylor College of Medicine); Scott McKay (Texas Children's Hospital); Tristen Taylor (Baylor College of Medicine); Callie Shawhan (Baylor College of Medicine); Theodore Shybut (Southern California Orthopedics Institute)

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