

FINAL PROGRAM

PRISM2025 Columbus, OH

JANUARY 30 – FEBRUARY 1, 2025



PRISM
Pediatric Research in
Sports Medicine Society



Nationwide Children's Hospital – Where Champions Begin

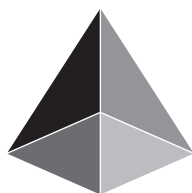
Leading the Way in Pediatric Sports Medicine

At Nationwide Children's Hospital, we are at the forefront of pediatric and adolescent sports medicine, dedicated to advancing the health and performance of young athletes through collaborative, multidisciplinary care. Our team includes experts in orthopedics and sports medicine, adaptive sports medicine, athletic training, physical therapy, motion analysis and research science, musculoskeletal radiology and point-of-care ultrasound, sports nutrition, and sports psychology.

We invite you to explore our innovative research, state-of-the-art facilities, and comprehensive programs designed to support the unique needs of young athletes. Join us at the PRiSM Annual Meeting to discover how we are shaping the future of pediatric and adolescent sports medicine.

Visit NationwideChildrens.org/Sports to learn more.





PRiSM
Pediatric Research in
Sports Medicine Society

PRISM2025 Columbus, OH

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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 12th Annual Meeting includes orthopedic surgeons, athletic trainers, physical therapists, researchers, mid-level providers, radiologists, sports medicine providers, orthotists, rehab engineers, kinesiologists, nutritionists, educators, administrators, and all others involved with the care and treatment of pediatric and adolescent sports medicine patients.

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.
- Analyze research for quality, safety and value to the field of pediatric sports medicine.
- Identify and apply appropriate practice changes to optimize patient care.
- Determine which athletes with acute or chronic injuries can safely return to play in their sport.
- Recognize and treat common overuse injuries in children and adolescents.
- Learning how to perform a sports injury or illness history and exam to develop a differential diagnosis
- Understanding the medical care considerations for different groups of athletes, including children and adolescents

Welcome to Columbus!

On behalf of the 2025 Scientific Program Committee, we are thrilled to welcome you to the 12th Annual Meeting! This year's gathering embodies PRiSM's mission by offering abundant opportunities to strengthen existing relationships and forge new connections within our dynamic, multidisciplinary community.

Our committee expertly crafted a program that is rooted in teaching and learning to foster networking, promoting interprofessional collaboration, and celebrating diversity—all in support of advancing pediatric sports medicine research. This work is vital as we strive to bridge the gap between research and clinical practice, ultimately improving health outcomes for the young athletes we serve.

For the first time in PRiSM's history, our scientific program spans 3 full days, reflecting the remarkable growth and innovation within our field. This year's meeting features over 200 original abstracts presented as podium talks, posters, and e-posters, showcasing contributions across a broad spectrum of pediatric sports medicine topics. Over the next few days, you can look forward to 15 engaging scientific research sessions, 12 focused research group meetings, 9 instructional course lectures, 3 interactive workshops, 2 complex case presentations, many exciting research group updates, and a dynamic poster presentation session. A special highlight of the conference is our keynote speaker, Stephanie Kuzydym, who will provide invaluable insights into youth athlete health and safety. Her unique perspective as an investigative reporter exemplifies the spirit of innovation and collaboration that defines PRiSM.

We firmly believe that innovation flourishes when diverse voices and perspectives come together. Over these 3 days, we hope you learn from our presenters, collaborate with colleagues, and build relationships with peers and mentors. We hope this meeting inspires you to share your ideas, expand your perspectives, and contribute to the ongoing advancement of the field. And above all, we hope you feel the warmth, inclusivity, and accessibility of the PRiSM community so that together we can create a brighter, healthier future for young athletes.

Welcome to PRiSM 2025. We're glad you're here!

Joseph Janosky, DrPH & Jonathan Napolitano, MD
2025 Scientific Program Committee Chairs

Meeting at a Glance

THURSDAY, JANUARY 30, 2025		
7:30–8:30 am		Winter Wellness Walk Breakfast on Your Own
7:30 – 11:30 am	Robinson C	Workshop 1: Pediatric Musculoskeletal Ultrasound
9:00– 10:00 am	Robinson AB	Instructional Course Lecture 1: The Movement Blueprint: Optimizing Youth Development Through Physical Literacy
10:15– 11 :15 am	Robinson AB	Instructional Course Lecture 2: Moving Towards the Future: The Role of Mocap, Wearables and AI in the Evaluation and Assessment of Young Athletes
11:30 am– 12:30 pm	See agenda	PRISM Committee Meetings
11:30 am– 1:00 pm		Lunch on Your Own
1:00– 1:10 pm	Robinson AB	AM25 Welcome Session
1:10– 1:40 pm	Robinson AB	RIG Restructure Rollout
1:50– 5:00 pm	Robinson AB see agenda	Research Interest Group Sessions
5:30– 7:00 pm	Kojo Kamau	Welcome Reception
FRIDAY, JANUARY 31, 2025		
7:00– 8:00 am	Kojo Kamau	Breakfast and Networking Session
7:00– 8:00 am	Robinson AB	Research Interest Group Update: Session 1
8:00– 8:15 am	Robinson AB	Host Highlight – Nationwide Children’s Hospital
8:15– 9:00 am	Robinson AB	Scientific Session 1: Trainee Travel Grant Recipient Session
9:00– 9:50 am	Robinson AB	Keynote Presentation: Stephanie Kuzdym
10:00– 10:55 am	Robinson AB	Scientific Session 2: Best Scientific Abstract Session – Part 1
11:00– 11:45 am	Robinson AB	Scientific Session 3: Best Scientific Abstract Session – Part 2
12:05 pm– 12:55 pm	Robinson AB	Complex Case Report Session
11:45 am– 12:55 pm	Kojo Kamau	Lunch and Exhibit Hall
1:00– 2:50 pm	Robinson C	Instructional Course Lecture 3: PRISM Asia -When East Meets West
	Robinson AB	Workshop 2: The Evidence Regarding Spondylolysis Diagnosis, Imaging, Management, and Rehabilitation
3:00– 3:50 pm	Robinson AB	Scientific Session 4: Treatment Techniques and Outcomes I
	Robinson C	Scientific Session 5: Rehabilitation And Return to Sport I
4:00– 4:45 pm	Robinson AB	Scientific Session 6: Joint Injuries and Conditions
	Robinson C	Scientific Session 7: Motion Analysis and Biomechanics
5:00– 5:30 pm	Kojo Kamau	Exhibit Hall
5:30– 7:00 pm	Kojo Kamau	PRISM Poster Power Hour

SATURDAY, FEBRUARY 1, 2025		
7:00– 7:50 am	Kojo Kamau	Breakfast and Networking Session
	Robinson AB	Research Interest Group Update: Session 2
8:00– 8:50 am	Robinson AB	Instructional Course Lecture 4: Management of Obligatory Patellar Instability
	Robinson C	Instructional Course Lecture 5: From Head to Toe: Concussion & Musculoskeletal Injury Risk, Assessment, and Virtual Reality Intervention
9:00– 9:50 am	Robinson AB	Scientific Session 8: Bone Injuries and Conditions In Pediatric Sports Medicine
	Robinson C	Scientific Session 9: Epidemiology and Public Health
10:00– 10:50 am	Robinson AB	Scientific Session 10: Treatment Techniques and Outcomes II
	Robinson C	Scientific Session 11: Rehabilitation and Return To Sport II
11:00– 11:50 am	Robinson AB	Instructional Course Lecture 6: Beyond the Injury: Psychological Aspects of Injury and Return to Sport
	Robinson C	Instructional Course Lecture 7: Are Recreational Sports a Relic of the Past or a Solution for the Future?
12:00– 12:50 pm	Robinson AB	Business Meeting and Award Session Lunch
1:00– 1:50 pm	Robinson AB	Instructional Course Lecture 8: Get Back in The Game! Optimizing Return to Sport Decision Making
1:00– 2:50 pm	Robinson C	Workshop 3: To Operate or Not to Operate: Common Pediatric Sports Injuries Debated
2:00– 2:50 pm	Robinson AB	Instructional Course Lecture 9: A Full Circle Approach to Overuse Injuries Associated with the Windmill Pitch in Adolescent Softball Players
3:00– 3:50 pm	Robinson AB	Scientific Session 12: Concussion and Head Injuries in Pediatric Sports Medicine
	Robinson C	Scientific Session 13: The Female Athlete
4:00– 4:50 pm	Robinson AB	Scientific Session 14: Diagnostic Imaging in Pediatric Sports Medicine
	Robinson C	Scientific Session 15: Social Issues in Pediatric Sports Medicine

Continuing Education (CE) Language

PEDIATRIC RESEARCH IN SPORTS MEDICINE SOCIETY

2025 - 12TH ANNUAL MEETING

Live: January 30, 2025 - February 1, 2025 – Columbus, OH

Enduring: February 15, 2025 – February 15, 2026 - Online

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.

Professions in scope for this activity are listed below.

PHYSICIANS

Amedco LLC designates this **live activity** for a maximum of **15.25 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 **23.00 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

NURSES

Amedco LLC designates this activity for a maximum of **15.25 live activity/ 23.00 enduring material ANCC** contact hours.

ATHLETIC TRAINERS

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 **15.25 live activity / 23.00 enduring material** Category A hours/CEUs. ATs should claim only those hours actually spent in the educational program.

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

Live: The New Jersey State Board of Physical Therapy Examiners (NJ PT) has approved the following course for continuing education credit: 2025 - 12th Annual Meeting on January 30, 2025 - February 1, 2025 in Columbus, OH for up to 15.25 General Hours.

Approval #: 2411-38

Enduring: The New Jersey State Board of Physical Therapy Examiners (NJ PT) has approved the following course for continuing education credit: 2025 - 12th Annual Meeting on February 15, 2025 – February 15, 2026 held online for up to 23.00 General Hours.

Approval #: 2411-38

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

The Ohio Physical Therapy Association (OPTA) has approved the following course for continuing education in Ohio: 2025 PRISM 12th Annual Meeting has been approved for up to 15.25 CEUs. Course Approval Number: 25S0328.

PENNSYLVANIA STATE BOARD OF PHYSICAL THERAPY (PA PT)

This activity has been submitted for review.

TEXAS PHYSICAL THERAPY ASSOCIATION (TX PT)

Live: PRISM 12th Annual Meeting has been approved for **15.25** continuing competence unit(s)(CCUs).

Course Approval Number: 79750TX.

Enduring: PRISM 12th Annual Meeting has been approved for **23.00** continuing competence unit(s)(CCUs).

Course Approval Number: 79752TX.

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

CALIFORNIA BOARD OF PHYSICAL THERAPY (CA PT)

This course has been Approved by CERS, an Approval Agency for the California Board of Physical Therapy.

Acknowledgements

The Pediatric Research in Sports Medicine Society would like to thank the following organizations for their generous support of PRISM and the 12th Annual Meeting.



Exhibitors

We would like to thank all of the companies for exhibiting at PRISM's 12th Annual Meeting. Exhibits are located in the Kojo Kamau Pre-function area. These companies and organizations help to make our Annual Meeting possible, and we encourage you to visit the exhibits.

Apex Health Group
 Arthrex, Inc.
 Enovis
 Smith + Nephew
 VALD Group

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 space and hotel.

MEALS

Breakfast and lunch will be provided on Friday and Saturday.

WELCOME RECEPTION - THURSDAY, JANUARY 30

The Welcome Reception will take place in the Kojo Kamau Ballroom.

POSTER POWER HOUR AND RECEPTION - FRIDAY, JANUARY 26

The Poster Power Hour and Reception will be held in the Kojo Kamau Ballroom on the 4th floor. Participants will have a chance to speak with colleagues, exhibitors and poster presenters.

REGISTRATION DESK HOURS -ROBINSON PREFUNCTION AREA

Wednesday, January 29 5:00- 7:00pm
 Thursday, January 30 6:30am- 5:00pm
 Friday, January 31 6:30am-5:00pm
 Saturday, February 1 6:30am-5:00 pm

OTHER MEETINGS*

Meeting	Date	Time	Location
ROCK	1/30/2025	8:00-11:30am	Johnson
Shriner's	1/30/2025	1:00-5:00pm	Caniff
ARROW	1/31/2025	6:30pm	Johnson
Nationwide Children's	1/31/2025	7:00-8:30pm	Off-site

*Meetings are not affiliated with PRISM



Our large, experienced team of sports medicine experts is focused exclusively on young athletes. We have a deep understanding of how to care for the growing body, enhance a developing athlete's performance and teach them injury prevention strategies for life.

Our Services

- Research-backed care, including specialized research programs for knee anatomy, OCD, and female athletes
- Sideline support and education for 30+ youth teams
- Innovative fast MRI technology that creates 4D images in 10 minutes
- Specialized sports physical therapy
- Motion and force analysis technology

Our Sports Medicine Care Team

Pediatric Orthopedic Surgeons



Kevin Shea, MD
Director, Sports
Medicine Program



Charles Chan, MD



James Gamble, MD



Amy Ladd, MD



Molly Meadows, MD



James Policy, MD



Stephanie Pun, MD

Primary Care Sports Medicine Physicians



**Alexandra
Abbott, MD**



Arvind Balaji, MD



Christine Boyd, MD



Emily Kraus, MD



Erin Grieb, MD

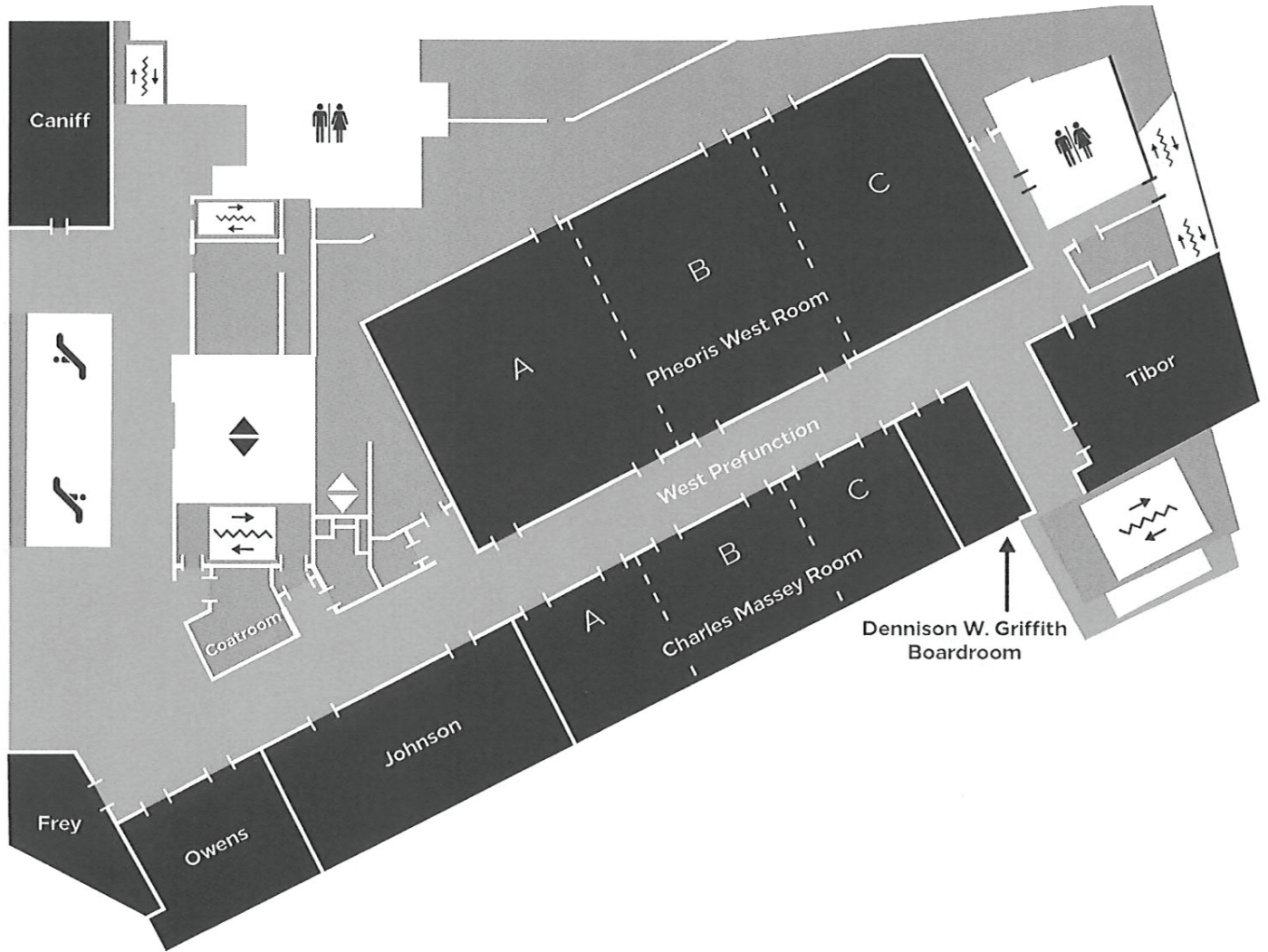
Contact Us

To refer a patient, please call **(844) 41-ORTHO** or visit mdportal.stanfordchildrens.org.

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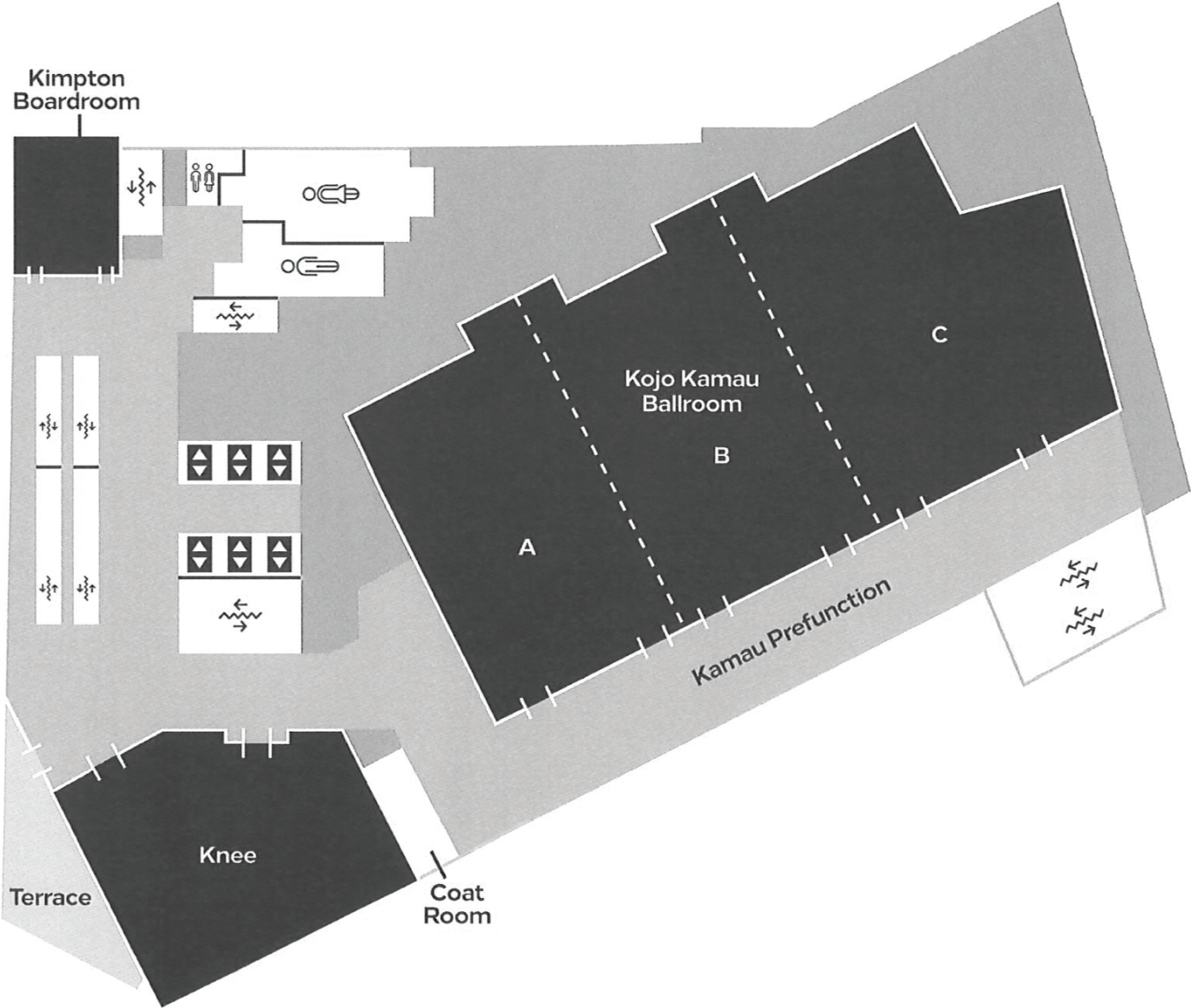
The Hilton Columbus Downtown Maps

THIRD FLOOR — COMMITTEE - RIG - OTHER MEETINGS



The Hilton Columbus Downtown Maps

FOURTH FLOOR – POSTERS - EXHIBITS - RECEPTIONS - MEALS



The Hilton Columbus Downtown Maps

FIFTH FLOOR – GENERAL SESSION ROOMS



7:30–8:30 AM

Wellness Walk

Bundle up and join local PRiSM members for a walk around Columbus to get some fresh air and ready your mind and body for the educational sessions to come!

7:30–11:30 AM

Workshop 1: Pediatric Musculoskeletal Ultrasound

Robinson C

This hands-on ultrasound workshop will focus on providing the fundamental knowledge of MSK ultrasound to both beginners and advanced practitioners looking for help understanding the complex sonoanatomy of the skeletally immature athlete and those desiring to practice more advanced dynamic imaging techniques of the hip. This will be a combination of short instructional lectures and live demonstrations with an emphasis on time spent during the hands-on scanning sessions using real pediatric and adult models.

Objectives:

Understand basic ultrasound physics, describe instrumentation principles, and demonstrate image optimization techniques

Identify normal sonoanatomy of a skeletally immature patient

Perform a complete diagnostic evaluation of the knee and ankle with additional focus on the dynamic exam for hip instability

Drew Duerson, MD; Jacob Jones, MD; Jonathan Napolitano, MD; Pierre D'Hemecourt, MD; Naomi Brown, MD; Andrea Stracciolini, MD

Breakfast and lunch provided for registered participants

9:00–10:00 am

Instructional Course Lecture 1: The Movement Blueprint: Optimizing Youth Development Through Physical Literacy

Robinson AB

As defined by the International Physical Literacy Association, physical literacy is the “motivation, confidence, knowledge, and understanding to value and take responsibility for engagement in physical activities for life.” The construct offers a necessary and more holistic, systems-oriented approach to physical activity promotion, recently spurring the world-wide launch of physical literacy development initiatives for youth. Sports medicine professionals are aptly suited, and perhaps responsible, for fostering physical literacy development among youth, particularly among those at highest risk of physical literacy disruption following injury.

During this course, audience members will learn from speakers with expertise in public health, sports medicine clinical practice, research, and community outreach. Attendees will leave equipped with the knowledge and confidence to educate youth and families on the importance of physical literacy development, regardless of sex, ability, sport, and competition level. Recent evidence will be employed to demonstrate the critical need for sports medicine professionals to re-conceptualize care provision for all young patients in order to promote quality movement for life. For clinical application, attendees will be introduced to interdisciplinary strategies for supporting necessary development of physical literacy among youth.

Joseph Janosky, DrPH, MSc, PT, AT; Christy Zwolski, PT, DPT, PhD; Matthew Paponetti, PT, DPT

10:15–11:15 am	<p>Instructional Course Lecture 2: Moving Towards the Future: The Role of Mocap, Wearables and AI in the Evaluation and Assessment of Young Athletes Robinson AB</p> <p>Continuing advancements in single camera-based motion capture and wearable sensor technology have put real-time and real-world data acquisition in the hands of clinicians, coaches, and athletes. This instructional course provides a complex overview of various data acquisition methods. These include 2D single and multi-camera apps for smart phones and tablets, three-dimensional marker-based and markerless motion analysis, and a wide variety of wearable sensors, both research-grade and consumer-based. Methods will be reviewed including ease of use, platforms available (cloud, etc.), type of data collected, accuracy and pros/cons across the spectrum of young athlete populations.</p> <p>Many of the analysis packages within these motion capture tools use artificial intelligence and machine learning applied within computer vision to identify movement patterns. Artificial intelligence is quickly developing into a variety of tools that can be used to improve the efficiency of data collection and analysis. This course aims to review AI integration into movement analysis and function with a particular focus on its ability to aid in developing patient-specific, precision healthcare delivery. This course aims to equip healthcare professionals with the knowledge to distinguish which methodologies are most effective for their practices, ensuring the best possible outcomes, recovery, injury prevention, and long-term health in young athletes.</p> <p><i>Kirsten Tulchin-Francis, PhD; Nathan Edwards, PhD, TASC-F; Gabriel Alain, PT, DPT, PhD</i></p>																									
11:30 am–12:30 pm	<p>PRISM Committee Meetings</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">Awards</td> <td style="text-align: right;">Charles Massey BC</td> </tr> <tr> <td>Diversity</td> <td style="text-align: right;">Tibor</td> </tr> <tr> <td>Membership</td> <td style="text-align: right;">Johnson</td> </tr> <tr> <td>Communications</td> <td style="text-align: right;">Merrill</td> </tr> <tr> <td>Education</td> <td style="text-align: right;">Owens</td> </tr> <tr> <td>Research</td> <td style="text-align: right;">Massey A</td> </tr> </table>	Awards	Charles Massey BC	Diversity	Tibor	Membership	Johnson	Communications	Merrill	Education	Owens	Research	Massey A													
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5:30–7:00 pm	<p>Welcome Reception Kojo Kamau</p>																									

7:00–8:00 am	Breakfast and Networking Session	Kojo Kamau
7:00–7:50 am	Research Interest Group Update: Session 1 Rehabilitation; Spine and Spondylolysis; Hip Disorders; Meniscus; Shoulder Instability; Patellofemoral Instability; Motion Analysis; and Tibial Spine	Robinson AB
8:00–8:15 am	Host Highlight – Nationwide Children’s Hospital	Robinson AB
8:15–9:00 am	Scientific Session 1: Trainee Travel Grant Recipient Session	Robinson AB
8:15 AM	Moderator <i>David Howell, PhD; Jonathan Napolitano, MD</i>	
8:19 AM	IS IT WORTH REPAIRING UNSTABLE DISCOID MENISCUS? A LONG-TERM ANALYSIS FOLLOWING DISCOID MENISCUS REPAIR WITH A MINIMUM OF 5 YEARS FOLLOW-UP <i>Steven Henick</i>	
8:25 AM	EXERTIONAL RHABDOMYOLYSIS IN THE PEDIATRIC ATHLETIC POPULATION <i>Cassidy Schultz, BS</i>	
8:31 AM	ONE-THIRD OF ASYMPTOMATIC UNITED STATES-BASED YOUTH BASEBALL PLAYERS EXHIBITED SUBAPOPHYSEAL AVULSIONS: AN ULTRASOUND STUDY <i>James McGinley</i>	
8:37 AM	COMPARISON OF ISOMETRIC SHOULDER STRENGTH BETWEEN ADOLESCENT MALES AND FEMALES POST ARTHROSCOPIC STABILIZATION PROCEDURES <i>Gianna Tito, BS</i>	
8:43 AM	EXPLORING GAPS IN CONCUSSION KNOWLEDGE AND EDUCATION TO ENHANCE PEDIATRIC CONCUSSION AWARENESS, ASSESSMENT, AND REFERRAL EQUITY (CAARE) <i>Michael Baham</i>	
8:49 AM	Discussion	
9:00–10:00 am	Keynote Presentation Stephanie Kuzydym ‘Will you capture the moment or let it slip?’ How Eminem taught us the importance of CPR and AEDs Stephanie Kuzydym is a sports enterprise and investigative reporter for The Louisville Courier Journal, which is part of the USA TODAY Network. For the last decade, Kuzydym’s reporting largely focused on the health and safety of athletes. In “Safer Sidelines,” a four-part series based on several months of reporting, Kuzydym uncovered the many ways high schools, athletic associations and lawmakers have failed to prepare for the worst-case scenario – sudden death in sports. The project included a first-of-its-kind searchable database of U.S. athlete deaths, as well as a survey and expert assessment of athletic emergency action plans for Kentucky high schools.	Robinson AB
		
10:00–10:55 am	Scientific Session 2: Best Scientific Abstract Session – Part 1	Robinson AB
10:00 AM	Moderator <i>Eric Edmonds, MD; Meghan Wiehe</i>	
10:04 AM	PROXIMAL UCL AVULSION AND CORTICAL SLEEVE AVULSION SUBTYPES IN PEDIATRIC HUMERAL MEDIAL EPICONDYLE INJURIES <i>Margaret Bowen, BS</i>	
10:10 AM	THE ROLE OF VALGUS UNLOADER BRACING IN NON-OPERATIVE TREATMENT OF STABLE MEDIAL FEMORAL CONDYLE OSTEOCHONDRITIS DISSECANS: AN ANALYSIS OF THE RESEARCH IN OSTEOCHONDRITIS OF THE KNEE (ROCK) STUDY COHORT <i>Henry Ellis, MD</i>	
10:16 AM	USING 3D STATISTICAL SHAPE MODELING TO UNDERSTAND TROCHLEAR DEVELOPMENT IN RELATION TO THE PHYSIS – APPLICATIONS FOR GUIDED GROWTH AND TROCHLEOPLASTY PLANNING IN THE SKELETALLY IMMATURE? <i>Bryan Khoo</i>	

10:22 AM	INCREASED OPERATIVE TIME IS AN INDEPENDENT RISK FACTOR FOR DEVELOPING SURGICAL COMPLICATIONS FOLLOWING ISOLATED ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION IN SKELETALLY IMMATURE PATIENTS <i>Rishi Sinha, MD</i>	
10:28 AM	PREDICTIVE VALUE OF EXERCISE STEP TEST AFTER PEDIATRIC AND ADOLESCENT CONCUSSION <i>Matthew Grady, MD FAAP CAQSM</i>	
10:34 AM	Discussion	
11:00–11:50 am	Scientific Session 3: Best Scientific Abstract Session –Part 2	Robinson AB
11:00 AM	Moderator <i>Elliot Greenberg, PT PhD; Henry Ellis, MD</i>	
11:04 AM	EXAMINING THE ALIGNMENT OF VIRGINIA PUBLIC SCHOOL DIVISIONS’ CONCUSSION POLICIES WITH STATE LAW MANDATES TO SUPPORT THE RETURN TO LEARN OF ALL STUDENTS WITH CONCUSSION <i>Anne Blackstone, PhD MSPT</i>	
11:10 AM	INJURY PATTERNS IN YOUTH PICKLEBALL PLAYERS <i>Martha Kebeh</i>	
11:16 AM	OUTCOMES OF HIP ARTHROSCOPY FOR FEMOROACETABULAR IMPINGEMENT IN ADOLESCENTS: A MULTI-CENTER PROSPECTIVE STUDY <i>Jeffrey Nepple, MD</i>	
11:22 AM	TREATMENT OF PEDIATRIC AND ADOLESCENT CAPITELLAR OSTEOCHONDRITIS DISSECANS LESIONS WITH ENHANCED MICROFRACTURE: OUTCOMES OF CONCENTRATED BONE MARROW ASPIRATE WITH EXTRACELLULAR MATRIX <i>Joshua Bram, MD</i>	
11:28 AM	A MULTICENTER COMPARISON OF SCREW, SUTURE, AND HYBRID FIXATION OF PEDIATRIC TIBIAL SPINE FRACTURES <i>Akbar Syed, MD</i>	
11:34 AM	FUNCTIONAL NEAR INFRARED SPECTROSCOPY DISTINGUISHES CONCUSSED FROM HEALTHY INDIVIDUALS PERFORMING COMPLEX TANDEM GAIT <i>Christina Master, MD FAAP CAQSM FACSM</i>	
11:40 AM	Discussion	
12:05–12:50 pm	Complex Case Report Session	Robinson AB
12:05 – 12:30 pm	Complex Case 1 <i>Thomas Pommering, DO; Jonathan Napolitano, MD; Kevin Klingele, MD; Kathryn Milks, MD; Logan Buske, PT, DP</i>	
12:35 – 12:50 pm	Complex Case 2 <i>Emily Sweeney, MD; Erin Hayden, PT; Heather Richard, PsyD; Aaron McAllister, MD</i>	
11:50 am–1:00 pm	Lunch and Exhibit Hall	Kojo Kamau
1:00–2:50 pm	Instructional Course Lecture 3: PRISM Asia – When East Meets West The PRISM Asia instructional lecture series at the PRISM 2025 meeting will provide a thorough exploration of various orthopaedic conditions, covering epidemiology, clinical presentations, investigations and management strategies. The first half of the session will focus on a series of surveys and discussions related to conditions such as discoid meniscus, ACL treatment and rehabilitation, Osteochondritis Dissecans, tibial eminence fractures and patellar instability. On the second half, unique clinical cases handled by the group will be presented, showcasing innovative treatment and outcomes. This session aims to highlight any similarities and differences between our clinical practices, fostering a collaborative environment for knowledge exchange and potential future collaboration. <i>Prof James Hui Hoi Po, MBBS, FRCS, FAMS, MD; Dr Sachin Tapasvi, MBBS, MS(Ortho), DNB (Ortho), MNAMS, AFAOA, FRCS; Dr Chih-Kai Hong, NCKUH; Prof Shin Chang-Ho; Prof Qiwei Li, MD; Professor.</i>	Robinson C

FRIDAY, JANUARY 31, 2025

1:00–2:50 pm	<p>Workshop 2: The Evidence Regarding Spondylolysis Diagnosis, Imaging, Management, and Rehabilitation</p> <p>Lumbar spondylolysis is the most common identifiable cause of low back pain in youth athletes, affecting 14-30% of symptomatic athletes. Spondylolysis management is variable, making it a confusing and difficult condition to treat. What imaging studies should I order? Should the athlete be braced? When should rehab begin? Can therapy cause a spondylolisthesis if it is too aggressive? Is it safe to do lumbar extension? When is it safe to return to sport? Why does the management of this condition vary so dramatically? How do you even pronounce spondylolysis? Attendees will leave this session with answers to all these questions and a good understanding of spondylolysis in the youth athlete. This session will provide an in-depth discussion on the diagnosis, management, and rehabilitation of spondylolysis in the youth athlete. We will discuss the value of patient history, clinical tests, and diagnostic imaging in establishing this diagnosis. The speakers will describe the underlying reasoning behind the different types of medical management and discuss the evidence supporting each. Finally, this session will provide rehabilitation recommendations to return your youth athlete safely and efficiently to sport.</p> <p><i>Anastasia Fischer, MD; Emily Sweeney, MD; Mitchell Selhorst, DPT, PhD; Aaron McAllistor, MS, MD</i></p>	Robinson AB
3:00–3:50 pm	<p>Scientific Session 4: Treatment Techniques and Outcomes I</p> <p>Moderator <i>Aristides Cruz, Jr, Matt Ellington, MD</i></p>	Robinson AB
3:00 PM	<p>OUTCOMES FOLLOWING OPERATIVE VERSUS NON-OPERATIVE TREATMENT OF DISPLACED, MIDSHAFT CLAVICLE FRACTURES IN ADOLESCENTS:A SYSTEMATIC REVIEW AND META-ANALYSIS <i>Benton Heyworth, MD</i></p>	
3:04 PM	<p>GREATER THAN 5-YEAR RETURN-TO-SPORT AND PATIENT-REPORTED SATISFACTION OUTCOMES POST-ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION <i>Claire Giachino, BA</i></p>	
3:10 PM	<p>CAN A NEW, SATELLITE INPATIENT HOSPITAL MAINTAIN THE EFFICIENCY OF AN AMBULATORY SURGERY CENTER WITH NO DIFFERENCE IN PATIENT-REPORTED OUTCOMES?: A PROSPECTIVE STUDY <i>Morgan Swanson</i></p>	
3:16 PM	<p>PROSPECTIVE REVIEW OF THE OUTCOMES OF REMNANT-PRESERVING ANTERIOR CRUCIATE LIGAMENT SURGERY IN ADOLESCENT PATIENTS:A PILOT STUDY <i>Eric Edmonds, MD</i></p>	
3:22 PM	<p>MID-TERM OUTCOMES OF THE TREATMENT OF BORDERLINE DYSPLASIA WITH ISOLATED HIP ARTHROSCOPY COMPARED TO PERIACETABULAR OSTEOTOMY: UTILITY OF A BORDERLINE HIP INSTABILITY SCORE <i>Jeffrey Nepple, MD</i></p>	
3:28 PM	<p>OSTEOCHONDRITIS DISSECANS OF THE TALUS: COMPOSITE CANCELLOUS BONE AND MORSELIZED ALLOGRAFT CARTILAGE GRAFTING RESULTS IN EXCELLENT PATIENT REPORTED OUTCOMES AND RETURN TO PLAY <i>Philip Wilson, MD</i></p>	
3:34 PM	<p>Discussion</p>	
3:40 PM	<p>Scientific Session 5: Rehabilitation And Return to Sport I</p> <p>Moderator <i>Lauren Butler, PT DPT SCS; Dai Sugimoto, PhD ATC</i></p>	Robinson C
3:00 PM	<p>ASSOCIATION BETWEEN PATIENT REPORTED OUTCOME MEASURES AND RETURN TO SPORT TESTING PERFORMANCE FOLLOWING ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION IN PEDIATRIC AND ADOLESCENT PATIENTS <i>Owen Roth</i></p>	
3:04 PM	<p>LENGTH OF TIME TO MEET RETURN TO RUNNING CRITERIA IN ADOLESCENTS FOLLOWING ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION <i>Beth Ackerman, DPT</i></p>	
3:10 PM	<p></p>	

3:16 PM	THE SPEED OF ISOKINETIC TESTING INFLUENCES QUADRICEPS STRENGTH SYMMETRY IN ADOLESCENTS FOLLOWING ACL-R <i>Joseph Hannon, PT DPT PhD</i>	
3:22 PM	KINESIOPHOBIA AND QUALITY OF MOVEMENT AT THE TIME OF RETURN TO SPORT AFTER ACL RECONSTRUCTION <i>Alexa Martinez</i>	
3:28 PM	LANDING AND PROPULSION STRATEGIES IN PEDIATRIC ACL REHABILITATION: A STUDY OF COUNTERMOVEMENT AND SINGLE LEG JUMPS <i>Sierra Hastings, PT DPT SCS</i>	
3:34 PM	Discussion	
4:00–4:50 pm	Scientific Session 6: Joint Injuries and Conditions	Robinson AB
4:00 PM	Moderator <i>Melissa Christino, MD FAAOS; Caitlyn Mooney, MD</i>	
4:04 PM	RADIAL MENISCUS TEAR REPAIR HIGH FAILURE RATES: CAN SUTURE TAPE REPAIR IMPROVE STRENGTH OVER TRADITIONAL SUTURE? <i>Austin Stoner</i>	
4:10 PM	HOW MUCH MENISCAL TRANSLATION IS NORMAL? A PEDIATRIC PHYSIOLOGIC ARTHROSCOPIC MENISCUS MOBILITY STUDY <i>Henry Ellis, MD</i>	
4:16 PM	RADIOLOGIC RISK FACTORS FOR OSTEOCHONDRAL FRACTURES IN FIRST-TIME AND RECURRENT PATELLAR INSTABILITY PATIENTS <i>James McGinley</i>	
4:22 PM	TROCHLEAR MORPHOLOGIC FEATURES ON CROSS-SECTIONAL IMAGING IN PEDIATRIC PATIENTS WITH CHRONIC FIXED LATERAL PATELLA DISLOCATION <i>Shae Simpson</i>	
4:28 PM	COMPLICATIONS IN THE TREATMENT OF DISCOID LATERAL MENISCUS:A MULTICENTER STUDY <i>Gregory Schmale</i>	
4:34 PM	SURGICAL SITE INFECTION AFTER ACL RECONSTRUCTION IN THE SKELETALLY IMMATURE PEDIATRIC PATIENT <i>Breann Tisano</i>	
4:40 PM	Discussion	
4:00–4:50 pm	Scientific Session 7: Motion Analysis and Biomechanics	Robinson C
4:00 PM	Moderator <i>Sohpia Ulman, PhD; Mark Paterno, PT PhD MBA SCS ATC</i>	
4:04 PM	POST ACL RECONSTRUCTION FEMALE ADOLESCENTS DEMONSTRATE A DEFICIT IN JUMP KINETICS <i>Karine Stoelben, PhD PT</i>	
4:10 PM	PREPUBESCENT ACL COPERS VERSUS NONCOPERS: A BIOMECHANICAL COMPARATIVE ANALYSIS OF PEDIATRIC PATIENTS FOLLOWING AN ACL INJURY <i>Henry Ellis, MD</i>	
4:16 PM	THE EFFECTS OF FATIGUE ON RUNNING MECHANICS IN HIGH-SCHOOL CROSS-COUNTRY RUNNERS <i>Shane Miller, MD</i>	
4:22 PM	AGAINST EXPECTATIONS: REDUCED ULNOHUMERAL GAPPING IN YOUTH BASEBALL PLAYERS WITH SUBAPOPHYSEAL MEDIAL EPICONDYLE AVULSIONS <i>Jacob Jones, MD</i>	
4:28 PM	IS ONE TRUNK ENOUGH? EVALUATING TRUNK MOTION IN ATHLETES WITH PATHOLOGY USING A MULTI-SEGMENT TRUNK MODEL <i>Mallory Rowan</i>	
4:34 PM	PEDIATRIC MPFL RECONSTRUCTION: A BIOMECHANICAL CADAVERIC STUDY OF TWO PATELLAR FIXATION TECHNIQUES <i>Wills Baird</i>	
4:40 PM	Discussion	

FRIDAY, JANUARY 31, 2025

5:00–5:30 pm

Exhibit Hall

Kojo Kamau

5:30–7:00 pm

PRISM Poster Power Hour

Kojo Kamau

Top 10 Posters

201	KISSING SPINE SYNDROME IN CHILDREN AND ADOLESCENTS	Allen Kadado (Nationwide Children’s Hospital); Adam Mansour (Nationwide Children’s Hospital) ; Kirsten Tulchin-Francis (Nationwide Children’s Hospital); Ramiz Memon (Nationwide Children’s Hospital); Reid Chambers (Nationwide Children’s Hospital)
202	ASSOCIATIONS OF SOCIAL DETERMINANTS OF HEALTH AND MENTAL HEALTH SEQUELAE FOLLOWING CONCUSSION AMONG YOUTH AGES 11 TO 17	Jingzhen Yang (Nationwide Children’s Hospital) ; Jin Peng (Nationwide Children’s Hospital); Kristen Hoskinson (Nationwide Children’s Hospital); Thomas Pommering (Nationwide Children’s Hospital); Ping Zhang (The Ohio State University); Jordee Wells (Nationwide Children’s Hospital); Krista Wheeler (Nationwide Children’s Hospital); Yungui Huang (Nationwide Children’s Hospital) Steve Rust (Nationwide Children’s Hospital) Keith Yeates (RTI International)
203	RISK FACTORS FOR POSTOPERATIVE ARTHROFIBROSIS AFTER CARTILAGE RESTORATION PROCEDURES	Alireza Nazemi (Cedars Sinai Kerlan Jobe Institute) ; Christos Photopoulos (Cedars Sinai Kerlan Jobe Institute); Carlos Uquillas (Cedars Sinai Kerlan Jobe Institute); Alexandra Boyd (Cedars Sinai Kerlan Jobe Institute)
204	SINGLE LEG HORIZONTAL AND VERTICAL HOP FOR THE ASSESSMENT OF ADOLESCENTS WITH PATELLOFEMORAL PAIN SYNDROME	Ryan Kelln (Children’s Hospital Los Angeles) ; Eva Ciccodicola (Children’s Hospital Los Angeles); Alison Hanson (Children’s Hospital Los Angeles); Tishya Wren (Children’s Hospital Los Angeles and University of Southern California)
205	NECK FLEXION/EXTENSION STRENGTH RATIO IS NOT ASSOCIATED WITH CONCUSSION SYMPTOM DURATION	Julie Wilson (Children’s Hospital Colorado) ; Joshua Kniss (Children’s Hospital Colorado); Tara Porfido (Rutgers School of Health Professions); Carrie Esopenko (Icahn School of Medicine at Mount Sinai); David Howell (University of Colorado); Katherine Smulligan (University of Colorado)
206	COMPARISON OF MOST MEDIAL KNEE POSITION AND KNEE ABDUCTION DURING A SINGLE-LEG SQUAT TASK: ARE WE SEEING THE WHOLE PICTURE?	Sophia Ulman (Scottish Rite for Children); Ashley Erdman (Scottish Rite for Children)
208	CHRONIC TRAUMATIC ENCEPHALOPATHY BELIEFS AND LONG-TERM CONCUSSION CONSEQUENCE PERCEPTIONS IN PARENTS OF PEDIATRIC ATHLETES	Erica Beidler (Duquesne University) ; Abigail Bretzin (University of Michigan); Shawn Eagle (University of Pittsburgh); Ara Schmitt (Duquesne University)
209	STRENGTH AND SPATIOTEMPORAL PREDICTORS OF FATIGUE-INDUCED CHANGES IN HIP AND ANKLE KINETICS IN HIGH-SCHOOL CROSS-COUNTRY RUNNERS	Sophia Ulman (Scottish Rite for Children); Henry Ellis (Scottish Rite for Children); Jacob Jones (Scottish Rite for Children); Jane Chung (Scottish Rite for Children); Jessica Peshorn (Scottish Rite for Children); Ashley Erdman (Scottish Rite for Children); Shane Miller (Scottish Rite for Children); Alex Loewen (Scottish Rite for Children)
210	QUALITY OF LIFE AND ITS CORRELATION WITH ENERGY AVAILABILITY, DISORDERED EATING, AND COMPULSIVE EXERCISE BEHAVIORS AMONG ADOLESCENT ATHLETES	Aubrey Armento (Children’s Hospital Colorado) ; Madison Brna (University of North Carolina - Chapel Hill); Corrine Seehusen (University of New England); Amanda McCarthy (Children’s Hospital Colorado); Karin VanBaak (University of Colorado); David Howell (Children’s Hospital Colorado)
211	CHARACTERISTICS OF ADOLESCENT AND YOUNG ADULTS WITH ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION BASED ON CHILDHOOD OPPORTUNITY INDEX	Michelle Walaszek (University of Virginia) ; Christopher Kuenze (University of Virginia); ACL Reconstruction Rehabilitation Outcomes Workgroup (University of Virginia)

FRIDAY, JANUARY 31, 2025

7:00–7:50 am	Breakfast and Networking Session	Kojo Kamau
7:00–7:50 am	Research Interest Group Update: Session 2 Female Athlete; Ultrasound; Injury Prevention; Sports Specialization; Concussion; Elbow; and Knee Multi Ligament	Robinson AB
8:00–8:50 am	Instructional Course Lecture 4: Management of Obligatory Patellar Instability This instructional course offers an in-depth examination of a distinctive pediatric knee disorder characterized by obligate lateral patellar instability. Course participants will gain a thorough understanding of the preoperative assessment, encompassing both physical examinations and radiographic evaluations essential for diagnosing and treating this condition. The course will also address associated medical disorders and comorbidities that often accompany this knee disorder, building a framework to provide a holistic view to the patient’s health status. We will discuss the intricacy of surgical reconstruction techniques required to address obligatory lateral patellar instability, highlighting the steps necessary to achieve optimal alignment and function. Additionally, we will outline the preoperative and postoperative physical therapy protocols that are critical for patient recovery and long-term success. These protocols are designed to enhance surgical outcomes and ensure a smooth rehabilitation process. Lastly, this course will emphasize the importance of orthopedic psychology, underscoring the necessity of a multidisciplinary approach. By integrating psychological support into the treatment plan, we aim to address the emotional and psychological challenges faced by patients and their families. This comprehensive approach is essential for achieving the best possible outcomes in managing obligate lateral patellar instability in the pediatric population. <i>Kevin E. Klingele, MD; Daniel J Karam, PT, DPT, SCS; Heather M. Richard, PsyD</i>	Robinson AB
8:00–8:50 am	Instructional Course Lecture 5: From Head to Toe: Concussion & Musculoskeletal Injury Risk, Assessment, and Virtual Reality Intervention A greater risk of musculoskeletal injury with concussion history or following acute concussion has been documented previously among adolescent athletes. While specific risk factors and mechanisms underlying this risk are multifaceted and complex, evidence suggests that persistent neuromuscular control deficits after concussion may be associated with risk of post-concussion subsequent injury risk. This ICL aims to summarize what is known about this specific injury sequelae in adolescent athletes with concussion and intervention strategies. The presentation will summarize the literature reporting the epidemiology of concussion and subsequent injury risk in adolescent athletes, discuss the known risk factors, identify current rehabilitation strategies and neurocognitive training tasks, and importantly, challenge future directions and accessible strategies to target the window of vulnerability post-concussion for future injury in adolescent athletes. <i>April McPherson, PhD; David Howell, ATC, PhD; Greg Myer, PhD, FACSM, CSCS*D; Jessie Oldham, PhD</i>	Robinson C
9:00–9:50 am	Scientific Session 8: Bone Injuries and Conditions In Pediatric Sports Medicine	Robinson AB
9:00 AM	Moderator <i>James MacDonald, MD MPH; Aaron Provance, MD</i>	
9:04 AM	THE ETIOLOGY OF THE OS SUBFIBULAR: A PROSPECTIVE ULTRASOUND STUDY <i>Jacob Jones, MD</i>	
9:10 AM	EPIDEMIOLOGY OF ACUTE COMPARTMENT SYNDROME AFTER PEDIATRIC TIBIAL TUBERCLE AND TIBIAL SHAFT FRACTURES <i>John Milner, MD</i>	
9:16 AM	EPIDEMIOLOGY OF OPERATIVELY TREATED PEDIATRIC MEDIAL EPICONDYLE FRACTURES <i>Akbar Syed, MD</i>	
9:22 AM	FLIPPIN’ OUT OVER GYMNAST WRIST: PRESENTATION, TREATMENT, AND OUTCOMES OF DISTAL RADIAL PHYSEAL STRESS SYNDROME IN YOUNG GYMNASTS <i>Joseph Yellin, MD</i>	

SATURDAY, FEBRUARY 1, 2025

9:28 AM	TIMING MATTERS: CHALLENGES IN DELAYED SURGICAL MANAGEMENT OF PEDIATRIC MEDIAL HUMERAL EPICONDYLE FRACTURES <i>Richard Lee, MD</i>	
9:34 AM	INCREASED TT-TG AND SULCUS ANGLE ARE ASSOCIATED WITH PATELLA OSTEOCHONDRITIS DISSECANS <i>Danielle Chipman</i>	
9:40 AM	Discussion	
9:00–9:50 am	Scientific Session 9: Epidemiology and Public Health	Robinson C
9:00 AM	Moderator <i>Gregory Knell, PhD; Joe Molony, PT, MS, SCS, CSCS</i>	
9:04 AM	WHO REALLY DEVELOPS A CAPITELLAR OSTEOCHONDRITIS DISSECANS? A BASELINE DESCRIPTIVE EPIDEMIOLOGY STUDY FROM THE ROCKET PROSPECTIVE COHORT <i>Carl Nissen</i>	
9:10 AM	MEDICAL ENCOUNTER UTILIZATION AMONG ADOLESCENT-YOUNG ADULT BOSTON MARATHON RUNNERS <i>Sarah Wilwerth, BA</i>	
9:16 AM	EXERTIONAL HEAT STROKE TREATMENT PROTOCOLS INFLUENCING HIGH SCHOOL STUDENT ATHLETES <i>Samantha Scarneo-Miller, PhD, ATC</i>	
9:22 AM	EPIDEMIOLOGY OF PEDIATRIC BOWLING INJURIES BASED ON AGE AND SEX <i>David Mikhail</i>	
9:28 AM	SHINING A LIGHT ON THE INTERRELATIONSHIP BETWEEN PATIENT DEMOGRAPHICS, VITAMIN D LEVELS, AND FRACTURE LOCATION AMONG PEDIATRIC LOWER AND UPPER EXTREMITY FRACTURES <i>Gregory Walker, MD</i>	
9:34 AM	COMPARISON OF INJURY PATTERNS AMONG HIGHLY SPECIALIZED ATHLETES IN INDIVIDUAL SPORTS, TEAM SPORTS, AND TEAM SPORTS INVOLVING REPETITIVE MOTIONS <i>Daniel McLoughlin</i>	
9:40 AM	Discussion	
10:00–10:50 am	Scientific Session 10: Treatment Techniques and Outcomes II	Robinson AB
10:00 AM	Moderator <i>Jeffrey Nepple, MD; Jeff Albaugh, PT, MS, ATC</i>	
10:04 AM	MEDIAL PATELLOTIBIAL LIGAMENT RECONSTRUCTION IN PEDIATRIC AND ADOLESCENT PATIENTS WITH PATELLA DISLOCATION IN FLEXION <i>Daniel Green</i>	
10:10 AM	IMPACT OF GRAFT SELECTION ON CLINICAL OUTCOMES FOLLOWING ISOLATED MPFL RECONSTRUCTION IN ADOLESCENT AND YOUNG ADULT ATHLETES <i>Breann Tisano</i>	
10:16 AM	RATES OF REOPERATION AND READMISSION FOLLOWING ARTHROSCOPIC PEDIATRIC AND ADOLESCENT KNEE SURGERY: DATA FROM THE SCORE PATIENT REGISTRY, 2018-2022 <i>Philip Wilson, MD</i>	
10:22 AM	MPFL RECONSTRUCTION WITH GRAMMONT IS SAFE AND EFFECTIVE IN PEDIATRIC PATIENTS WITH PATELLAR INSTABILITY AND INCREASED TT-TG DISTANCE: A COMPARISON STUDY <i>Anthony Dure</i>	
10:28 AM	FACTORS ASSOCIATED WITH THE DECISION TO PERFORM A LATERAL RETINACULAR RELEASE OR LENGTHENING DURING MEDIAL PATELLOFEMORAL LIGAMENT RECONSTRUCTION IN THE JUPITER COHORT <i>Joshua Bram, MD</i>	
10:34 AM	OPTIMAL FIXATION FOR PEDIATRIC MENISCUS ROOT TEARS - IS PEDIATRIC LOW BONE DENSITY A CONTRA-INDICATION TO JOINT LEVEL SUTURE ANCHOR FIXATION? <i>Alan Anaya Gallegos, BSA</i>	

10:40 AM	Discussion	
10:00–10:50 am	Scientific Session 11: Rehabilitation and Return To Sport II	Robinson C
10:00 AM	Moderator <i>Eric Post, PhD, ATC; Nicholas Giampetruzzi, PT, MSPT</i>	
10:04 AM	HIGHER KINESIOPHOBIA IS ASSOCIATED WITH WORSE SELF-EFFICACY FOR FUTURE KNEE FUNCTION IN INDIVIDUALS AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION <i>Hana Marmura, PT, PhD</i>	
10:10 AM	EFFECT OF AGE AND SEX ON PSYCHOLOGICAL READINESS AT TIME OF SPORTS AFTER ACL RECONSTRUCTION <i>Mark Paterno, PT, MPT, PhD</i>	
10:16 AM	CORRELATION OF FUNCTIONAL TESTING AND ACL-RSI IN ADOLESCENT ATHLETES FOLLOWING ACL RECONSTRUCTION <i>Tatiana Paz, PT, DPT</i>	
10:22 AM	CHILDHOOD OPPORTUNITY DOES NOT INFLUENCE ACL-RSI SCORES ACROSS THE FIRST YEAR AFTER ACL RECONSTRUCTION: AN ARROW STUDY <i>Chris Kuenza, PhD, ATC</i>	
10:28 AM	ACCESS TO AN ATHLETIC TRAINER REDUCES TIME TO SURGERY IN ADOLESCENT ATHLETES WHO UNDERGO ACL RECONSTRUCTION <i>Cody Walker, MS, LAT, ATC, CSCS</i>	
10:34 AM	Discussion	
11:00–11:50 am	Instructional Course Lecture 6: Beyond the Injury: Psychological Aspects of Injury and Return to Sport This course is designed to address the full spectrum of psychological impacts of injury in youth athletes. This includes the psychosocial risk factors for injury, potential emotional responses to the injury itself, and implications for surgical outcomes and return to sports. A panel of faculty from two institutions with multidisciplinary teams designed to support mental health in recovery will discuss practical applications for providers across disciplines and settings, including universal practices to optimize wellbeing, supporting athletes throughout the rehabilitation process, recognizing signs of depression, anxiety, or post-traumatic stress, and facilitating appropriate referrals when indicated. <i>Mary Daley, MD; Melissa Christino, MD; Matthew Milewski, MD; Christopher Renjilian, MD; Jamie Shoop, PhD</i>	Robinson AB
11:00–11:50 am	Instructional Course Lecture 7: Are Recreational Sports a Relic of the Past or a Solution for the Future? Children’s participation in sport is a critical component to their physical and social development and as such, efforts should be made to provide all children with the opportunity to play. In recent years, there has been an observed shift in the focus of youth sports from that of participation for the health benefits of physical activity and fun to that of winning and competing. As a result, there has been a rise in club sports offerings and a subsequent reduction in recreational sports opportunities. This change presents unique challenges to children’s access to sport and may not adequately support their overall physical, social, and emotional development. This course will discuss the benefits and barriers to increasing recreational sport opportunities using the Social Ecological Model as a framework. Utilizing an interactive experience with key sports organization stakeholders, solutions will be discussed and debated. Finally, attendees will be provided with a blueprint for successful implementation of a recreational sports program. <i>Jason Targoff; Nick Garcia; Gregory Knell, PhD, MS; Kevin Latz, MD, MBA; Joseph Janosky, DrPH; Lauren Butler, DPT; Sophia Ulman, PhD</i>	Robinson C
12:00–12:50 pm	Business Meeting and Award Session Lunch	Robinson AB

SATURDAY, FEBRUARY 1, 2025

1:00–1:50 pm	<p>Instructional Course Lecture 8: Get Back in The Game! Optimizing Return to Sport Decision Making</p> <p>This course will focus on the full spectrum of return to sport (RTS) decision making in young athletes. It will review current best evidence on tools often used to help return young athletes to sports after lower extremity injury. Next, it will discuss future directions with RTS decision making, such as the integration of optimized objective movement analysis and the use of biopsychosocial patient reported outcome measures into the RTS decision. Finally, this course will discuss how to leverage these tools to improve outcomes after RTS, specifically with an increase in physical activity and a reduction of subsequent injury.</p> <p><i>Mark V. Paterno PT, PhD, MBA, SCS, ATC; Christin Zwolski PT, PhD, OCS; Laura C. Schmitt PT, PhD</i></p>	Robinson AB
1:00–2:50 pm	<p>Workshop 3: To Operate or Not to Operate: Common Pediatric Sports Injuries Debated</p> <p>A true engaging debate between pediatrics sports medicine providers when presented with a controversial clinical case. Each presenter will have 8 minutes to present recent literature and their opinion on the case followed by a rebuttal for each person during the debate. Audience participation will include interactive questions for each participants as well as an opportunity to vote on debate winner. Conditions to be reviewed will include a first time patella dislocation in a skeletally immature patient without an osteochondral fracture, a pre-pubescent ACL injury without a meniscochondral injury, a first time shoulder dislocation without bone loss, and a minimally displaced elbow injury in an elite athlete. Moderators will ensure that discussion allows for education opportunities to all professions treating musculoskeletal conditions/injuries.</p> <p><i>Cliff Willimon, MD; Crystal Perkins, MD; Kevin Shea, MD; Ted Ganley, MD; Jeff Nepple, MD; Andy Pennock, MD</i></p>	Robinson C
2:00–2:50 pm	<p>Instructional Course Lecture 9: A Full Circle Approach to Overuse Injuries Associated with the Windmill Pitch in Adolescent Softball Players</p> <p>Fastpitch softball is a popular sport, and athletes, particularly pitchers, are at high risk for overuse injury. Softball-related injury rates are low; however, the prevalence of overuse injuries is high, particularly at the high school and collegiate levels. Various intrinsic and extrinsic risk factors, both modifiable and non-modifiable, contribute to injury risk and include factors such as workload, fatigue, pitch counts, and biomechanical pitching errors. This course will introduce a model for overuse injury causality that can be applied in patient history assessment, clinical examination, and injury management. A holistic approach to managing workload, assessing biomechanics throughout the pitching motion, addressing common flaws, and implementing training techniques to enhance pitching will be discussed.</p> <p><i>Gretchen Oliver, PhD, FACSM, ATC, CES; Kaila A. Holtz, MSc, MD, FRCPC, CASEM; Jason L. Zaremski, MD, CAQSM, FAAPMR, FACSM, FAMSSM; Kenzie Friesen, PhD; Lauren Butler, DPT</i></p>	Robinson AB
3:00–3:50 pm	<p>Scientific Session 12: Concussion and Head Injuries in Pediatric Sports Medicine</p>	Robinson AB
3:00 PM	<p>Moderator</p> <p><i>Tracy Zaslow, MD FAAP CAQSM; Tina Master, MD</i></p>	
3:04 PM	<p>OPTIMIZING CONCUSSION RECOVERY: THE ROLE OF EARLY PHYSICAL ACTIVITY IN PEDIATRIC PATIENTS</p> <p><i>Sabrina Amin</i></p>	
3:10 PM	<p>VISUAL IMPAIRMENT IS ASSOCIATED WITH AN INCREASE IN CONCUSSIONS AMONG YOUTH FOOTBALL PLAYERS</p> <p><i>Karim Jamaledine, BS</i></p>	
3:16 PM	<p>CONCUSSIONS MEDIATE THE EFFECT OF TEAM SPORTS PARTICIPATION ON PHYSICAL AND MENTAL HEALTH OUTCOMES AMONG MIDDLE SCHOOL STUDENTS</p> <p><i>Regina Kostyun</i></p>	
3:22 PM	<p>QUALITY OF LIFE AMONG ADOLESCENTS WITH AND WITHOUT NOISE SENSITIVITY FOLLOWING CONCUSSION: A CROSS-SECTIONAL STUDY</p> <p><i>Joshua Kniss, PT DPT</i></p>	
3:28 PM	<p>Discussion</p>	

3:00–3:50 pm	Scientific Session 13: The Female Athlete	Robinson C
3:00 PM	Moderator <i>Bianca Edison, MD MS FAAP; Christy Zwolski, PT, DPT, PhD, OCS</i>	
3:04 PM	THE RELATIONSHIP BETWEEN ULTRASOUND-BASED KNEE LAXITY AND BIOMECHANICAL RISK ACROSS THE MENSTRUAL CYCLE IN ADOLESCENT FEMALE ATHLETES PERFORMING A SINGLE-LEG HOP TASK <i>Jessica Garcia</i>	
3:10 PM	SLEEP QUALITY VARIABILITY PREDICTS MENTAL HEALTH DURING A SPORTS SEASON AMONG FEMALE ADOLESCENT ATHLETES <i>Catherine Donahue, PhD ATC</i>	
3:16 PM	THE ASSOCIATION BETWEEN MENSTRUAL PHASE AND ACUTE FEMALE ATHLETE INJURIES <i>Cassidy Foley Davelaar, DO FAAP CAQSM</i>	
3:22 PM	IDENTIFYING MENSTRUAL DYSFUNCTION IN ADOLESCENT ATHLETES: WHATS BODY FAT GOT TO DO WITH THAT? <i>Madison Brna</i>	
3:28 PM	TRENDS IN PEDIATRIC TENNIS INJURIES AND MECHANISMS BASED ON SEX FROM 2014 TO 2023 <i>Amog Mysore</i>	
3:34 PM	Discussion	
4:00–4:50 pm	Scientific Session 14: Diagnostic Imaging in Pediatric Sports Medicine	Robinson AB
4:00 PM	Moderator <i>Marc Tompkins, MD; Drew Duerson, MD, RMSK</i>	
4:04 PM	HOW LOW IS LOW? A NORMATIVE STUDY DEFINING FLEXOR HALLUCIS LONGUS ANATOMIC LOCATION <i>Morgan Swanson</i>	
4:10 PM	EVALUATION OF AN ULTRASOUND-BASED DYNAMIC ASSESSMENT OF EXTENSOR MECHANISM LATERALIZATION IN PATELLAR INSTABILITY: A CASE-CONTROL STUDY <i>Elliot Greenberg</i>	
4:16 PM	DEEP DIVE ON SULCUS ANGLE: OPTIMAL AXIAL MRI SLICE SELECTION AND CUT OFF VALUES <i>Mauricio Drummond, MD</i>	
4:22 PM	COGNITIVE IMPAIRMENTS IN ADOLESCENTS WITH A VESTIBULAR CONCUSSION: A LONGITUDINAL FMRI STUDY <i>Aaron Zynda, PhD, CCRP</i>	
4:28 PM	THE LATERAL TROCHLEA-ANTERIOR CONDYLES ANGLE TO QUANTIFY TROCHLEAR DYSPLASIA <i>Jason Brenner</i>	
4:34 PM	Discussion	
4:00–4:50 pm	Scientific Session 15: Social Issues in Pediatric Sports Medicine	Robinson C
4:00 PM	Moderator <i>Stephanie Logterman, MD; Megan Kunkel, MD</i>	
4:04 PM	EVALUATION OF READABILITY, CONTENT, AND QUALITY OF ONLINE PATIENT EDUCATION MATERIALS FOR OSTEOCHONDROITIS DISSECANANS OF THE KNEE <i>Kevin Landrum</i>	
4:10 PM	TRANSLATION AND CROSS-CULTURAL ADAPTATION OF THE SPANISH HOSPITAL FOR SPECIAL SURGERY PEDIATRIC FUNCTIONAL ACTIVITY BRIEF SCALE (HSS PEDI-FABS) <i>Ruth Jones, BS</i>	
4:16 PM	FOOD INSECURITY IN ADOLESCENT ATHLETES <i>Andrew Donaldson, MD</i>	
4:22 PM	THE IMPACTS OF EARLY SPORT SPECIALIZATION ON NATIONAL BASKETBALL ASSOCIATION PLAYERS' INJURY LOAD MANAGEMENT AND ATHLETIC SUCCESS <i>Luke Sang, BS</i>	

SATURDAY, FEBRUARY 1, 2025

Saturday, February 1, 2025

- 4:28 PM **USING A COMMUNITY-ENGAGED FRAMEWORK TO REDUCE DISPARITIES IN CONCUSSION NEUROSCIENCE AND EVALUATE EEG/ERP COGNITIVE BRAIN DYNAMICS IN BLACK ADOLESCENT FOOTBALL ATHLETES**
Patrick Ledwidge, PhD
- 4:34 PM **THE RELATIONSHIP BETWEEN PSYCHOLOGICAL READINESS AND INSTABILITY HISTORY IN ADOLESCENTS AFTER ANTERIOR SHOULDER STABILIZATION**
Adam Weaver
- 4:40 PM **Discussion**

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212	OSTEOCHONDRAL FRACTURES IN ADOLESCENT FIRST-TIME PATELLAR DISLOCATION: THREE-DIMENSIONAL CHARACTERIZATION AND ASSOCIATION WITH RADIOGRAPHIC FEATURES	Jeffrey Nepple (Washington University); Beltran Torres (Washington University in St Louis); Annamarie Wang (Washington University)
213	PUBLIC INSURANCE IS ASSOCIATED WITH DELAYS TO SURGERY IN PEDIATRIC PATIENTS WITH A FIRST-TIME PATELLAR DISLOCATION INVOLVING A LOOSE BODY	Neeraj Patel (Ann & Robert H. Lurie Children's Hospital of Chicago); J. Todd Lawrence (Children's Hospital of Philadelphia & University of Pennsylvania); Brendan Williams (Children's Hospital of Philadelphia & University of Pennsylvania); Kevin Orellana (The Children's Hospital of Philadelphia); Casey Kuka (The Children's Hospital of Philadelphia); David Kell (The Children's Hospital of Philadelphia); Amin Alayleh (Ann & Robert H. Lurie Children's Hospital of Chicago); Alexandra Dejneka (Ann & Robert H. Lurie Children's Hospital of Chicago)
214	NO IMPACT OF POSTERIOR TIBIAL SLOPE ON SUBSEQUENT ACL TEARS IN PATIENTS WITH TIBIAL SPINE FRACTURES	Gregory Schmale (Seattle Children's Hospital); Roan Willson (University of Washington) ; Sierra Thomsen (University of Washington); Morgan Swanson (Children's Hospital of Philadelphia); Waylon Howard (Seattle Children's Hospital); R. Mistovich (Colorado Access); Henry Ellis (Scottish Rite for Children); Aristides Cruz Jr. (Brown University); Peter Fabricant (Hospital for Special Surgery); Jay Lee (Johns Hopkins Hospital); Yi-Meng Yen (Boston Children's Hospital); Tibial Spine Research Interest Group (The Children's Hospital of Philadelphia); Indranil Kushare (Texas Children's Hospital and Baylor College of Medicine); Theodore Ganley (Children's Hospital of Philadelphia); Scott McKay (Texas Children's Hospital and Baylor College of Medicine)
215	GAMIFICATION OF CONCUSSION EDUCATION USING A CONCUSSION BINGO INTERVENTION TO IMPROVE CONCUSSION KNOWLEDGE AND REDUCE HEALTH LITERACY BARRIERS	Wesley Bryant (University of Alabama) ; Emily Jones (University of Alabama); Jessica Wallace (University of Alabama)
216	AGE-RELATED VARIATIONS IN CLINICAL PROFILES FOR CHILDREN WITH SPORTS- AND RECREATION-RELATED CONCUSSION	Sicong Ren (Children's Hospital of Philadelphia & University of Pennsylvania) ; Daniel Corwin (Children's Hospital of Philadelphia & University of Pennsylvania); Catherine McDonald (University of Pennsylvania); Christina Master (Children's Hospital of Philadelphia & University of Pennsylvania); Kristy Arbogast (Children's Hospital of Philadelphia & University of Pennsylvania)
217	QUALITY OF LIFE AND BONE STRESS INJURY HISTORY IN FEMALE GYMNASTS AND FLAG FOOTBALL ATHLETES	Emily Sweeney (University of Colorado) ; Madison Brna (Children's Hospital Colorado); David Howell (University of Colorado); Amanda Gick (Children's Hospital Colorado); Sarah Petersen (University of Colorado)
219	RELATIONSHIP OF KNEE ABDUCTION MOMENT TO LOWER EXTREMITY SEGMENT ACCELERATION DURING SPORT-SPECIFIC MOVEMENTS IN ADOLESCENT ACL RECONSTRUCTION PATIENTS AT RETURN-TO PLAY	Lauren Butler (Florida International University) ; Hannah Olander (Scottish Rite for Children); Ashley Erdman (Scottish Rite for Children); Sophia Ulman (Scottish Rite for Children)
220	OUTCOMES FOLLOWING ARTHROSCOPIC MARROW STIMULATION FOR THE TREATMENT OF CAPITELLUM OSTEOCHONDRITIS DISSECANS	Michael Saper (Seattle Children's Hospital); Patrick Rooney (Madigan Army Medical Center) ; Bilal Khilef (University of Washington)
221	IS GRIT ASSOCIATED WITH BETTER PATIENT-REPORTED OUTCOMES AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION IN PEDIATRIC AND ADOLESCENT PATIENTS?	Theodore Ganley (Children's Hospital of Philadelphia); Nathan Chaclas (The Children's Hospital of Philadelphia); Morgan Swanson (Children's Hospital of Philadelphia)
222	VALIDATION OF THE ACL-RETURN TO SPORT AFTER INJURY (ACL-RSI) SCALE IN PATIENTS AFTER PATELLAR STABILIZATION SURGERY: AN INTERIM ANALYSIS	Peter Fabricant (Hospital for Special Surgery); Daniel Green (Hospital for Special Surgery); Beth Shubin Stein (Hospital for Special Surgery); Deborah Jones (Hospital for Special Surgery); Olivia Tracey (Hospital for Special Surgery); Bennett Propp (Hospital for Special Surgery); Emilie Lijesen (Hospital for Special Surgery); Akshitha Adhiyaman (Hospital for Special Surgery); Ruth Jones (Hospital for Special Surgery) ; Yukiko Matsuzaki (Hospital for Special Surgery)

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223	EPIDEMIOLOGY OF PEDIATRIC/ADOLESCENT DANCE INJURIES	Kathleen Maguire (Children's Hospital of Philadelphia); Naomi Brown (The Children's Hospital of Philadelphia); Divya Talwar (Children's Hospital of Philadelphia); Morgan Swanson (Children's Hospital of Philadelphia) ; Angie Kuang (The Children's Hospital of Philadelphia)
224	EXPLORING THE CONNECTION BETWEEN PHYSICAL ACTIVITY AND DEPRESSIVE SYMPTOMS FOR ADOLESCENTS WITH CONCUSSION	David Howell (University of Colorado); Catherine Donahue (University of Colorado); Joshua Kniss (Children's Hospital Colorado); Katherine Smulligan (University of Colorado); Mathew Wingerson (University of Colorado); Julie Wilson (Children's Hospital Colorado)
225	EVALUATING INJURY DIFFERENCES BETWEEN PEDIATRIC MALE AND FEMALE AMERICAN FOOTBALL PLAYERS	Jacob Jones (Scottish Rite for Children); Luke Radel (Mayo Clinic); Bobby Van Pelt (Scottish Rite for Children); Dai Sugimoto (Waseda University); David Mikhail (UT Southwestern Medical Center)
226	CHANGES IN GRIT IN MALE AND FEMALE ATHLETES AND NON-ATHLETES FROM 8TH THROUGH 12TH GRADE	Jacquelyn Valenzuela-Moss (Children's Hospital Los Angeles) ; Tishya Wren (Children's Hospital Los Angeles - University of Southern California); Milo Sini (Harvard Westlake School); Bianca Edison (Children's Hospital Los Angeles - University of Southern California)
227	MENTAL HEALTH SPOTLIGHT: COMPARING PSYCHOLOGICAL COMORBIDITIES IN MPFL AND ACL RECONSTRUCTION IN ADOLESCENTS	Grant McHorse (University of Texas Austin) ; Robert Martin (Children's Hospital of Eastern Ontario); Matthew Ellington (University of Texas Austin); Niamh McMahon (Central Texas Pediatric Orthopaedics); Gaurav Singh (University of Texas); Andrew Samson (University of Texas Austin)
228	BATTLE OF THE BOTS: COMPARISON OF THREE AI CHATBOT PLATFORMS ON COMMON PATIENT/FAMILY QUESTIONS ON ACL SURGERY	Craig Smith (Nationwide Children's Hospital); Alex DiBartola (Nationwide Children's Hospital); Phillip Stokey (Nationwide Children's Hospital); Daryn Strub (Nationwide Children's Hospital); Laura Bates (Nationwide Children's Hospital); Kirsten Tulchin-Francis (Nationwide Children's Hospital) ; Allen Kadado (Nationwide Children's Hospital)
229	VOLUME OF ATHLETIC EXPOSURES FOLLOWING RETURN TO SPORTS AFTER ACL RECONSTRUCTION: DOES AGE MATTER?	Mark Paterno (Cincinnati Children's Hospital Medical Center) ; Christin Zwolski (Cincinnati Children's Hospital Medical Center); Staci Thomas (Cincinnati Children's Hospital Medical Center); Jacquelyn Bockoven (Cincinnati Children's Hospital Medical Center); Jamie Kronenberg (The Ohio State University); Laura Schmitt (The Ohio State University)
230	SPONDYLOLYSIS AND BACK PAIN IN ADOLESCENT ATHLETES	Adam Mansour (Nationwide Children's Hospital); Mutaleeb Shobode (Nationwide Children's Hospital) ; Melissa Owusu-Ansah (Nationwide Children's Hospital); Bahja Muse (Nationwide Children's Hospital); Chen Li (Nationwide Children's Hospital); Kirsten Tulchin-Francis (Nationwide Children's Hospital); Daryn Strub (Nationwide Children's Hospital)
231	YOUR PATELLA DISLOCATED: WILL IT HAPPEN AGAIN? AN ASSESSMENT OF MRI CRITERIA FOR RECURRENT PATELLA DISLOCATION AFTER AN INITIAL EVENT	Mauricio Drummond (Children's Hospital at Montefiore); Eric Fornari (Children's Hospital at Montefiore); Jason Brenner (Albert Einstein College of Medicine) ; Benjamin Levy (Children's Hospital at Montefiore Medical Center); Steven Henick (Children's Hospital at Montefiore); Jacob Schulz (Children's Hospital at Montefiore); Leila Mehraban Alvandi (Children's Hospital at Montefiore); Edina Gjonbalaj (Children's Hospital at Montefiore)
232	NO DIFFERENCE IN ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION GRAFT FAILURE WITH SUTURE AUGMENTATION IN ADOLESCENTS	Lisa Tamburini (University of Connecticut Health Center) ; Adam Weaver (Connecticut Childrens); Donna Pacicca (Connecticut Childrens); Amirul Anuar (Connecticut Childrens); Calista Sinclair Stevens (University of Connecticut); Matthew Brown (Connecticut Childrens); Allison Crepeau (Connecticut Childrens)
233	DOES BMI IMPACT LONG-TERM OUTCOMES OF SYMPTOMATIC DISCOID MENISCUS FOLLOWING ARTHROSCOPIC MANAGEMENT?	Steven Henick (Children's Hospital at Montefiore) ; Emily Ferreri (Albert Einstein College of Medicine); Joseph Charla (Albert Einstein College of Medicine); D'Arcy Marsh (Children's Hospital at Montefiore); Edina Gjonbalaj (Children's Hospital at Montefiore); Leila Mehraban Alvandi (Children's Hospital at Montefiore); Jacob Schulz (Children's Hospital at Montefiore); Eric Fornari (Children's Hospital at Montefiore); Mauricio Drummond (Children's Hospital at Montefiore)
234	PREVALENCE OF A COMPREHENSIVE PROTOCOL TO PREVENT EXERTIONAL HEAT ILLNESSES IN ADOLESCENT ATHLETES BETWEEN REGIONS OF THE COUNTRY	Susan Yeargin (University of South Carolina) ; Alicia Montalvo (Arizona State University); Zachary Kerr (University of North Carolina - Chapel Hill); Samantha Scarneo-Miller (West Virginia University)

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235	ANTEROINFERIOR ILIAC SPINE OSTEOPLASTY AT THE TIME OF PERIACETABULAR OSTECTOMY HELPS PRESERVE PRE-OPERATIVE RANGE OF MOTION	Wasim Shihab (University of Pittsburgh); Connor Luck (University of Pittsburgh); Ashley Disantis (University of Pittsburgh); Jennifer Oakley (University of Pittsburgh); Michael McClincy (University of Pittsburgh) ; Jonathan Dalton (University of Pittsburgh)
236	THREE-DIMENSIONAL DIFFERENCES IN FEMOROACETABULAR IMPINGEMENT MORPHOLOGY BETWEEN ADOLESCENT MALES AND FEMALES	Yi-Meng Yen (Boston Children's Hospital) ; Kyle O'Connor (Washington University St Louis); Vivek Shah (Washington University St Louis); Jeffrey Nepple (Washington University); John Clohisy (Washington University); Sasha Carsen (Children's Hospital of Eastern Ontario); Henry Ellis (Scottish Rite for Children) Matthew Schmitz (United States Airforce)
237	ISOKINETIC KNEE STRENGTH AND PATIENT REPORTED OUTCOME MEASURES DIFFER BETWEEN ACL RECONSTRUCTION GRAFT TYPES IN ADOLESCENTS: A MULTI CENTER STUDY BY THE ARROW GROUP	Adam Weaver (Connecticut Childrens) ; Christopher Kuenze (University of Virginia); Xavier Thompson (Louisiana State University); ACL Reconstruction Rehabilitation Outcomes Workgroup (University of Virginia)
238	AGE AND SEX DIFFERENCES IN PSYCHOLOGICAL READINESS AND STRESS AT 24-MONTHS FOLLOWING PRIMARY ACL RECONSTRUCTION: A LONGITUDINAL ANALYSIS	Dai Sugimoto (Waseda University) ; Emma Gossman (Boston Children's Hospital); Danielle Cook (Boston Children's Hospital); Melissa Christino (Boston Children's Hospital); Mininder Kocher (Boston Children's Hospital); Dennis Kramer (Boston Children's Hospital); Lyle Micheli (Boston Children's Hospital) Yi-Meng Yen (Boston Children's Hospital); Matthew Milewski (Boston Children's Hospital)
239	THE COVID-19 PANDEMIC AND BONE STRESS INJURY DIAGNOSES IN PEDIATRIC SPORTS MEDICINE PATIENTS IN THE UNITED STATES: A MULTICENTER RETROSPECTIVE STUDY	Katherine Rizzone (University of Rochester Medical Center) ; Courtney Jones (University of Rochester Medical Center); Emily Kraus (Stanford University); Bianca Edison (Children's Hospital Los Angeles - University of Southern California); Emily Sweeney (University of Colorado); Naomi Brown (The Children's Hospital of Philadelphia); Japsimran Kaur (University of Rochester Medical Center); Kevin McCaffrey (University of Rochester Medical Center); Madison Brna (Children's Hospital Colorado); Jacquelyn Valenzuela-Moss (Children's Hospital Los Angeles); David Kell (The Children's Hospital of Philadelphia) Kaitlyn O'Malley (Children's Hospital of Philadelphia); Austin Stoner (Stanford University); Abby McIntyre (Stanford University)
240	BIOMECHANICAL COMPARISON OF SUTURE ANCHORS VS INTERFERENCE SCREWS – CAN WE OPTIMIZE OUTCOMES FOR EARLIER RETURN TO SPORTS AND IMPROVE PATIENT SATISFACTION?	Amin Alayleh (Stanford University) ; Austin Stoner (Stanford University); Ian Hollyer (Stanford University); Kelly McFarlane (Stanford University); Wills Baird (Stanford University); Calvin Chan (Stanford University); Nicole Pham (Stanford University); Henry Ellis (Scottish Rite for Children); Matthew Schmitz (United States Airforce); Marc Tompkins (University of Minnesota); Theodore Ganley (Children's Hospital of Philadelphia); Yi-Meng Yen (Boston Children's Hospital); Kevin Shea (Stanford University)
241	COMPLICATIONS AND OUTCOMES OF CHEMICALLY TREATED ALLOGRAFT IN PEDIATRIC MEDIAL PATELLOFEMORAL LIGAMENT RECONSTRUCTION: A COMPARISON STUDY	Halle Walls (Rady Children's Hospital) ; Eric Edmonds (RadyChildren's Hospital); Jivan Achar (Rady Children's Hospital); Tracey Bryan (Rady Children's Hospital); Stephanie Latham (Rady Children's Hospital)
242	HOW DO NEIGHBORHOOD DISPARITIES INFLUENCE SHOULDER INSTABILITY LESION SEVERITY AND TIMING OF CARE IN ADOLESCENTS?	Dang-Huy Do (University of Texas Southwestern Medical Center); James McGinley (Scottish Rite for Children); Eliza Lovrich (Scottish Rite for Children); Amareesa Robinson (Scottish Rite for Children); Philip Wilson (Scottish Rite for Children); Henry Ellis (Scottish Rite for Children); John Arvesen (Scottish Rite for Children)
243	DIFFERENT ROADS TRAVELED: DISPARITIES IN THE PREOPERATIVE TIMELINE RESULT IN DELAYS TO PEDIATRIC ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION	Michelle Nutescu (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); Neeraj Patel (Ann & Robert H. Lurie Children's Hospital of Chicago)
244	IMPACT OF SOCIAL DETERMINANTS OF HEALTH ON QUADRICEPS STRENGTH RECOVERY IN CHILDREN AND ADOLESCENTS FOLLOWING ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION	Victor Prati (Arkansas Children's Hospital) ; Beverly Spray (Arkansas Children's Research Institute); Cody Walker (Arkansas Children's Hospital); Tina Oguntola-Blount (Arkansas Children's Hospital); Brant Sachleben (University of Arkansas for Medical Sciences); Paul Inclan (Hospital for Special Surgery); Cord Sheehy (University of Arkansas for Medical Sciences)

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245	EVALUATING THE ASSOCIATION BETWEEN THE CHILD OPPORTUNITY INDEX 2.0 AND INSURANCE TYPE ON ACCESS TO PEDIATRIC ACL RECONSTRUCTION CARE FROM SOCIO-ECONOMICALLY DISTRESSED COMMUNITY	Eric Fornari (Children's Hospital at Montefiore); Jacob Schulz (Children's Hospital at Montefiore); Edina Gjonbalaj (Children's Hospital at Montefiore); Leila Mehraban Alvandi (Children's Hospital at Montefiore); Anisha Duvvi (Albert Einstein College of Medicine); Mauricio Drummond (Children's Hospital at Montefiore)
246	LIMB DOMINANCE INFLUENCES KNEE LOADING DURING GAIT AT THE TIME OF RETURN TO SPORT FOLLOWING ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION	Shiho Goto (Texas Health Sports Medicine) ; Caitlin Nadolny (Texas Health Sports Medicine); Lindsey Dietrich (Sideline Orthopedics and Sports)
247	EFFICACY OF IPACK REGIONAL ANESTHESIA FOR PEDIATRIC ACL RECONSTRUCTIONS WITH HAMSTRING AUTOGRAFTS	Colleen Sweeney (University of California, San Diego) ; James Bomar (Rady Children's Hospital); Eric Edmonds (Rady Children's Hospital)
248	THE PSYCHOLOGICAL IMPACT ON ADOLESCENTS RECEIVING DIAGNOSIS/ TREATMENT RECOMMENDATIONS FOR OSTEOCHONDRI-TIS DISSECANS OF THE KNEE	Matthew Milewski (Boston Children's Hospital) ; Henry Ellis (Scottish Rite for Children); Emma Gossman (Boston Children's Hospital); Bayley Potter (Scottish Rite for Children); Danielle Cook (Boston Children's Hospital); Philip Wilson (Scottish Rite for Children); Melissa Christino (Boston Children's Hospital); Benton Heyworth (Boston Children's Hospital); Emily Stapleton (Scottish Rite for Children)
249	ACOUSTIC STARTLE REFLEX AND SENSITIVITY TO NOISE IN ADOLESCENT ATHLETES FOLLOWING CONCUSSION	Jessie Oldham (Virginia Commonwealth University) ; Daniel Bradford (Oregon State University); Shannon Nagle (Boston Children's Hospital); Sarah Willwerth (Brown University); Rebekah Mannix (Boston Children's Hospital); William Meehan III (Boston Children's Hospital)
250	OPEN MPFL REPAIR IN FIRST-TIME PATELLAR DISLOCATORS HAS COMPARABLE REDISLOCATION RATES TO MPFL RECONSTRUCTION AT ONE YEAR FOLLOW-UP	Anmarie Wang (Washington University); Beltran Torres (Washington University in St Louis); Jeffrey Nepple (Washington University)
251	QUADRICEPS IS KING: THE CORRELATION OF PEDIATRIC STRENGTH AND MOVEMENT PATTERNS DURING A Y-BALANCE TEST ANTERIOR REACH IN THE ACLR EARLY POSTOPERATIVE PERIOD	Theodore Ganley (Children's Hospital of Philadelphia); Patrick England (Children's Hospital of Philadelphia); Alexandra Stevens (Children's Hospital of Philadelphia); Valentina Graci (Children's Hospital of Philadelphia); Elliot Greenberg (Children's Hospital of Philadelphia); David VanEenaam (The Children's Hospital of Philadelphia); Kevin Landrum (Children's Hospital of Philadelphia)
252	COMPARING POST-SURGICAL COMPLICATIONS AND PATIENT-REPORTED OUTCOMES AT 6-MONTHS POST ACLR BETWEEN INSTITUTIONAL STANDARD OF CARE VERSUS A RADIO-FREQUENCY ABLATION DEVICE: A RANDOMIZED CONTROL TRIAL	Claire Giachino (Children's Hospital Colorado) ; Hannah Rossing (Children's Hospital Colorado); Savannah Troyer (Children's Hospital Colorado); David Howell (University of Colorado); Jay Albright (Children's Hospital Colorado); Curtis VandenBerg (University of Southern California)
253	ARE THERE HEALTH BENEFITS TO PLAYING FOOTBALL? PEDIATRIC PHYSICAL, SOCIAL-EMOTIONAL, AND MENTAL WELLBEING ACROSS A SINGLE FOOTBALL SEASON	Jihyun Oh (University of Alabama) ; Danae Delfin (University of South Florida); Mary Margaret Williamson (University of Alabama); Jessica Wallace (University of Alabama)
254	AGE AND SEX DIFFERENCES IN ACL-RSI SUBSCALE SCORES OF EMOTION, RISK-APPRAISAL, AND CONFIDENCE AFTER ACL RECONSTRUCTION	Dylan Roman (Connecticut Children's) ; Sophia Ulman (Scottish Rite for Children); Lauren Butler (Florida International University); Cody Walker (Arkansas Children's Hospital); Shelby Baez (University of North Carolina - Chapel Hill); Christopher Kuenze (University of Virginia); Taylor Douthit (Children's Health Andrews Institute); ACL Reconstruction Rehabilitation Outcomes Workgroup (University of Virginia)
255	PARS INTERARTICULARIS AND PEDICLE STRESS INJURIES IN YOUNG ATHLETES WITH LOW BACK PAIN: A RETROSPECTIVE COHORT STUDY OF 902 PATIENTS EVALUATED WITH MAGNETIC RESONANCE IMAGING	Peter Kriz (Boston Children's Hospital) ; Gregory Kobelski (University of New England); John Kriz (Vanderbilt University); Sarah Willwerth (Brown University); Danielle Hunt (Boston Children's Hospital); Peter Evangelista (Brown University); William Meehan III (Boston Children's Hospital)
256	OPTIMIZING VALUE IN PEDIATRIC ACLR: INNOVATIONS IN GRAFT HARVESTING TECHNIQUES	Emily Moya (Stanford University) ; Kenny Ling (Stony Brook University); Jude Alawa (Stanford University); Kelly McFarlane (Stanford University); Kali Tileston (Stanford University); Kathryn Harbacheck (Stanford Children's Health); James Gamble (Stanford University); Molly Meadows (Stanford University); Charles Chan (Stanford University); Kevin Shea (Stanford University)

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257	RETURN TO SPORT TESTING AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION: HOW DO PRISM INSTITUTIONS MEASURE UP TO INTERNATIONAL CONSENSUS?	Elliot Greenberg (Children's Hospital of Philadelphia); Meredith Link (The Children's Hospital of Philadelphia)
258	EXPLORATION OF KNEE EXTENSION TORQUE STEADINESS IN ADOLESCENT ATHLETES FOLLOWING ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION AT TIME OF RETURN TO PLAY TESTING	Victor Prati (Arkansas Children's Hospital); Brant Sachleben (University of Arkansas for Medical Sciences); Kevin Garrison (University of Central Arkansas); William Bandy (University of Central Arkansas); Jacquie Rainey (University of Central Arkansas)
259	ISOKINETIC STRENGTH PROFILES AMONG YOUTH AFTER MEDIAL PATELLOFEMORAL LIGAMENT RECONSTRUCTION	Christin Zwolski (Cincinnati Children's Hospital Medical Center); Grant Poston (Cincinnati Children's Hospital Medical Center); Lainey Anthony (Cincinnati Children's Hospital Medical Center); Kristin Bastian (Cincinnati Children's Hospital Medical Center); Megan Sayre (Cincinnati Children's Hospital Medical Center); Kathleen Hugentobler (Cincinnati Children's Hospital Medical Center); Alyson Filipa (Cincinnati Children's Hospital Medical Center)
260	ADOLESCENT FEMALES WITH ACL INJURY PRESENT DECREASED JUMP PERFORMANCE AND ASSYMETRY DURING LANDING	Karine Stoelben (Children's Hospital of Eastern Ontario Research Institute); Joana Hornestam (Children's Hospital of Eastern Ontario); Daniel Benoit (University of Ottawa); Sasha Carsen (Children's Hospital of Eastern Ontario); Blake Miller (University of Ottawa)
261	MANAGEMENT OF FAILED MULTIDIRECTIONAL SHOULDER INSTABILITY SURGERY: TO REVISE OR NOT TO REVISE?	Michael Silva (University of California); James Bomar (Rady Children's Hospital); Eric Edmonds (Rady Children's Hospital)
262	PSYCHOLOGICAL REFERRAL PATTERNS AND CHARACTERISTICS FROM A PEDIATRIC SPORTS MEDICINE CLINIC	V. Claire Clark (Scottish Rite for Children); Bayley Potter (Scottish Rite for Children) Emily Stapleton (Scottish Rite for Children); Jacob Jones (Scottish Rite for Children); Shane Miller (Scottish Rite for Children); Jane Chung (Scottish Rite for Children)
263	THE ANTERIOR INTERMENISCAL LIGAMENT IN CHILDREN: IMPLICATIONS FOR TIBIAL SPINE FRACTURE, MENISCUS INJURY, AND ACL RECONSTRUCTION	Kevin Shea (Stanford University); Theodore Ganley (Children's Hospital of Philadelphia); Marc Tompkins (University of Minnesota); Yi-Meng Yen (Boston Children's Hospital); Matthew Schmitz (United States Airforce); Henry Ellis (Scottish Rite for Children); Calvin Chan (Stanford University); Austin Stoner (Stanford University); Justin Cruz (Stanford University); Kelly McFarlane (Stanford University); Chiamaka Obilo (Stanford University); Thomas Johnstone (Stanford University); Ian Hollyer (Stanford University); Amin Alayleh (Stanford University)
264	ADOLESCENT FLAG FOOTBALL ATHLETES WITH MENSTRUAL DYSFUNCTION REPORT WORSE SLEEP AND MORE STRESS ACROSS A SEASON THAN THOSE WITHOUT MENSTRUAL DYSFUNCTION	Rachel Meyers (Children's Hospital Colorado); Madison Brna (Children's Hospital Colorado); Catherine Donahue (University of Colorado); Emily Sweeney (University of Colorado); David Howell (University of Colorado); Aubrey Armento (Children's Hospital Colorado)
265	ASSESSING THE IMPACT OF NEIGHBORHOOD OPPORTUNITY ON SURGICAL CARE AND OUTCOMES AFTER ANTERIOR SHOULDER STABILIZATION IN ADOLESCENTS	Dylan Roman (Connecticut Childrens); Allison Crepeau (Connecticut Childrens); Matthew Brown (Connecticut Childrens); Adam Weaver (Connecticut Childrens); Nicholas Giampetrucci (Connecticut Childrens); Lisa Cruz (Connecticut Childrens)
266	YOUTH SPORTS COACHES' AND SCHOOL NURSES' KNOWLEDGE, EDUCATION, AND NEEDS CARING FOR YOUTH WITH CONCUSSION IN COMMUNITY SETTINGS	Christina Master (Children's Hospital of Philadelphia & University of Pennsylvania); Olivia Podolak (The Children's Hospital of Philadelphia); Madeline Consuelos (The Children's Hospital of Philadelphia); Kristy Arbogast (Children's Hospital of Philadelphia & University of Pennsylvania); Daniel Corwin (Children's Hospital of Philadelphia & University of Pennsylvania); Catherine McDonald (University of Pennsylvania)
267	ADAPTIVE CHANGES IN SHOULDER RANGE OF MOTION IN ADOLESCENT JAPANESE BASEBALL PITCHERS	Tetsuro Sueyoshi (Stanford University)
268	THERE IS A DIFFERENCE IN PREOPERATIVE THROUGH-THE-KNEE FEMOROTIBIAL ROTATION IN PEDIATRIC PATIENTS WITH ANTERIOR CRUCIATE LIGAMENT RUPTURE VERSUS PATIENTS WITH PATELLOFEMORAL INSTABILITY	Daniel Green (Hospital for Special Surgery); Peter Fabricant (Hospital for Special Surgery); Roger Widmann (Hospital for Special Surgery); Shae Simpson (Hospital for Special Surgery); Emilie Lijesen (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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269	UNNECESSARY ROUGHNESS: RECENT TRENDS AND EPIDEMIOLOGY OF FLAG FOOTBALL INJURIES OVER A 15-YEAR PERIOD	Kevin Landrum (Children's Hospital of Philadelphia); Elliot Greenberg (Children's Hospital of Philadelphia); Divya Talwar (Children's Hospital of Philadelphia); Theodore Ganley (Children's Hospital of Philadelphia)
270	SOME SKELETALLY IMMATURE PATIENTS HAVE LIMB LENGTH DISCREPANCIES AND/OR VALGUS ALIGNMENT PRIOR TO ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION: BASELINE RADIOGRAPHIC DATA FROM THE PLUTO COHORT	Elise Bixby (Boston Childrens Hospital); Breann Tisano (Boston Childrens Hospital); Benton Heyworth (Boston Children's Hospital); Peter Fabricant (Hospital for Special Surgery); Mininder Kocher (Boston Children's Hospital); Danielle Cook (Boston Childrens Hospital); PLUTO Study Group (Boston Children's Hospital); Lauren Hutchinson (Boston Children's Hospital)
271	VISUAL FUNCTIONING FOLLOWING YOUTH CONCUSSION: INVESTIGATING THE IMPACT OF ADHD	Laura Boylan (Virginia Commonwealth University); Jessie Oldham (Virginia Commonwealth University); Katherine Dec (Virginia Commonwealth University); Alia O'Meara (Virginia Commonwealth University, VCU Health System); Nikki Miller-Ferguson (Virginia Commonwealth University, VCU Health System); Joshua Kniss (Children's Hospital Colorado); David Howell (University of Colorado); Shannon Nagle (Boston Childrens Hospital); Rebekah Mannix (Boston Children's Hospital); William Meehan III (Boston Children's Hospital)
272	PEDIATRIC REHABILITATION PROTOCOLS AFTER ANTERIOR SHOULDER INSTABILITY SURGERY - A SYSTEMATIC REVIEW	Nathan Chacras (The Children's Hospital of Philadelphia); Joseph Yellin (Children's Hospital of Philadelphia); Christopher DeFrancesco (The Children's Hospital of Philadelphia); Kevin Landrum (Children's Hospital of Philadelphia)
273	CAPITELLAR OSTEOCHONDRITIS DISSECANS LESION CHARACTERISTICS AND INITIAL TREATMENT PATHS: A BASELINE DESCRIPTIVE EPIDEMIOLOGY STUDY FROM THE ROCKET PROSPECTIVE COHORT	Carl Nissen (Prism Sports Medicine); Donald Bae (Boston Childrens Hospital); Theodore Ganley (Children's Hospital of Philadelphia); Donna Pacicca (Connecticut Childrens); Kevin Shea (Stanford University); Regina Kostyun (Hartford Healthcare Bone and Joint Institute); James Pace (Children's Health Andrews Institute); Deborah Bohn (TRIA); Philip Wilson (Scottish Rite for Children); Jay Albright (Children's Hospital Colorado); Eric Wall (Cincinnati Children's Hospital Medical Center); Andrew Pennock (Rady Children's Hospital); Kevin Little (Cincinnati Children's Hospital Medical Center); Eric Edmonds (Rady Children's Hospital); Allison Crepeau (Connecticut Childrens); Charles Chan (Stanford University); Paul Saluan (Colorado Access)
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275	GENDER BIAS IN EXERCISE PRESCRIPTION DURING REHABILITATION AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION	Lauren Butler (Florida International University); Sophia Ulman (Scottish Rite for Children); Ashley Erdman (Scottish Rite for Children); Elliot Greenberg (Children's Hospital of Philadelphia); Joseph Janosky (Lasell University); Alexa Martinez (Nicklaus Children's Hospital); Matthew Bailey (Nicklaus Children's Hospital)
276	POSTERIOR INSTABILITY IN ADOLESCENTS: CLINICAL AND IMAGING CHARACTERISTICS AND DISTINCTIONS COMPARED TO ANTERIOR INSTABILITY	Andrew Pennock (Rady Children's Hospital); Brendon Mitchell (Children's Hospital of Philadelphia); James Bomar (Rady Children's Hospital); Eric Edmonds (Rady Children's Hospital); Garrett Berger (University of California, San Diego)
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279	THE RELATIONSHIP BETWEEN PSYCHOLOGICAL READINESS TO RETURN TO SPORT AND KINESIOPHOBIA IN ADOLESCENTS AND YOUNG ADULTS AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION	Lauren Butler (Florida International University); Sophia Ulman (Scottish Rite for Children); Dylan Roman (Connecticut Childrens); Cody Walker (Arkansas Children's Hospital); Shelby Baez (University of North Carolina - Chapel Hill); Taylor Douthit (Children's Health Andrews Institute); Christopher Kuenze (University of Virginia); ACL Reconstruction Rehabilitation Outcomes Workgroup (University of Virginia)

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280	INEQUITIES IN CARE OF PEDIATRIC PATIENTS UNDERGOING MEDIAL PATELLOFEMORAL LIGAMENT RECONSTRUCTION	Caleb Puckett (Wake Forest University) ; Jonathan Groothoff (Wake Forest University); Alejandro Marquez-Lara (Atrium Health Wake Forest Baptist)
281	IDENTIFYING HEALTH DISPARITIES IN PEDIATRIC PATIENTS UNDERGOING ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION	Caleb Puckett (Wake Forest University) ; Jonathan Groothoff (Wake Forest University); Alejandro Marquez-Lara (Atrium Health Wake Forest Baptist)
282	RECOVERY FROM ADOLESCENT SPORTS CONCUSSION DURING THE SCHOOL YEAR COMPARED TO SUMMER	Thomas Pommering (Nationwide Children's Hospital) ; Julie Young (Nationwide Children's Hospital); Jason Benedict (The Ohio State University); Sean Rose (Nationwide Children's Hospital)
283	THE PREVALENCE OF ACETABULAR LABRAL TEARS ON HIP AND PELVIC MRI IN THE PEDIATRIC POPULATION	Anchal Dhawan (University of Wisconsin Madison) ; Quinn Steiner (University of Wisconsin Madison); Nicholas Laucis (University of Wisconsin Madison); Samuel Mosiman (University of Wisconsin-Madison); Donna Blakenbaker (University of Wisconsin Madison); Andrea Spiker (University of Wisconsin-Madison)
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286	DISCOID MENISCUS WITH ANTERIOR INSTABILITY: PREVALENCE, PRESENTATION, DIAGNOSIS, TREATMENT AND OUTCOMES	Eric Fornari (Children's Hospital at Montefiore); Jacob Schulz (Children's Hospital at Montefiore); Edina Gjonbalaj (Children's Hospital at Montefiore); Leila Mehraban Alvandi (Children's Hospital at Montefiore); Steven Henick (Children's Hospital at Montefiore); Emily Ferreri (Albert Einstein College of Medicine); Emmanuel Mbamalu (Albert Einstein College of Medicine); Joseph Charla (Albert Einstein College of Medicine); Mauricio Drummond (Children's Hospital at Montefiore)
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288	ADOLESCENT ANTERIOR CRUCIATE LIGAMENT REVISION RISK: INFLUENCE OF HAMSTRING AUTOGRAFT DIAMETER IN PRIMARY RECONSTRUCTION	Robert Magnussen (Ohio State University and Wexner Medical Center); Lauren Han (The Ohio State University) ; Teonna Sharpe (The Ohio State University); Christopher Kaeding (Ohio State University and Wexner Medical Center); David Flanigan (Ohio State University and Wexner Medical Center); Angela Pedroza (Ohio State University and Wexner Medical Center); Tyler Barker (Ohio State University and Wexner Medical Center); Eric Milliron (Ohio State University and Wexner Medical Center); Parker Cavendish (Ohio State University and Wexner Medical Center); James Kirven (Ohio State University and Wexner Medical Center)
289	GREATER TRAIT MINDFULNESS IS ASSOCIATED WITH LOWER DEPRESSION SYMPTOMS IN INDIVIDUALS WITH ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION	Shelby Baez (University of North Carolina - Chapel Hill); Matthew Harkey (Michigan State University); Francesca Genoese (University of Wyoming)
290	Y BALANCE ANTERIOR REACH DIFFERENCE VERSUS COMPOSITE SCORES AS AN EARLY SCREENING TOOL IN ACL-R REHABILITATION	Jeffrey Nepple (Washington University); Joseph Hannon (St. Louis Children's Hospital) ; Andres Burbano (Washington University in St Louis); Paul Jenkins (St. Louis Children's Hospital)
291	DOES THE USE OF NON-TRADITIONAL CASTING SUPPLIES IN PEDIATRIC FRACTURE CASTING HARBOR MICROORGANISMS THAT COULD INCREASE THE RISK OF CONTAMINATION?	William Galardi (Michigan State University) ; Allison Tenfelde (Corewell Health Helen Devos Children's Hospital); William Woodhams (Michigan State University); Abdoul Mbengue (Michigan State University); Camryn McIntyre (Michigan State University); Taylor Wesley (Michigan State University); Poorna Viswanathan (Michigan State University)

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294	THE ASSOCIATION BETWEEN SLEEP AND HEALTH ANTHROPOMETRICS IN ADOLESCENT ATHLETES	Jessica Wallace (University of Alabama); Antonio DelCastillo (University of Alabama) ; Courtney Helfrecht (University of Alabama); Taia MacEachern (University of Alabama)
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296	ARTICULAR INJURY FOLLOWING FIRST-TIME PEDIATRIC PATELLAR DISLOCATION - CHARACTERIZING INJURY, PREVALENCE, SEVERITY, AND LOCATION	Brendan Williams (Children's Hospital of Philadelphia & University of Pennsylvania); Jie Nguyen (Children's Hospital of Philadelphia); J. Todd Lawrence (Children's Hospital of Philadelphia & University of Pennsylvania); Akbar Syed (The Children's Hospital of Philadelphia); Kat Ashe (The Children's Hospital of Philadelphia); Caroline Kim (The Children's Hospital of Philadelphia); Kevin Orellana (The Children's Hospital of Philadelphia); Nathan Chacras (The Children's Hospital of Philadelphia); David Kell (The Children's Hospital of Philadelphia)
297	COMPARISON BETWEEN MARKERLESS AND MARKER-BASED MOTION CAPTURE FOR FIVE SPORTS MOVEMENTS	Tishya Wren (Children's Hospital Los Angeles - University of Southern California); Shawn Roberts (Children's Hospital Los Angeles); Jonathan Santana (Children's Hospital Los Angeles - University of Southern California); Victoria Perry (Children's Hospital Los Angeles)
298	FIRST RIB STRESS FRACTURE IN SOFTBALL PITCHERS. A UNIQUE OVERUSE INJURY	Matthew Ellington (University of Texas Austin); Robert Martin (Children's Hospital of Eastern Ontario); Stephanie Price (University of Texas Austin)
299	DEPRESSIVE SYMPTOMS AND SELF-EFFICACY IN ATHLETES VS. NON-ATHLETES FROM 7TH TO 12TH GRADE: A 6-YEAR LONGITUDINAL STUDY	Bianca Edison (Children's Hospital Los Angeles - University of Southern California); Tishya Wren (Children's Hospital Los Angeles - University of Southern California); Milo Sini (Harvard Westlake School); Jacquelyn Valenzuela-Moss (Children's Hospital Los Angeles)
300	VARIABILITY IN CURRENT RETURN TO PLAY CRITERIA EXIST IN UPPER EXTREMITY ADOLESCENT ATHLETES	Katie Sloma (Texas Scottish Rite Hospital for Children) ; Sophia Ulman (Scottish Rite for Children); Ashley Erdman (Scottish Rite for Children); Cody Todesco (Texas Scottish Rite Hospital for Children); Henry Ellis (Scottish Rite for Children); Philip Wilson (Scottish Rite for Children); John Arvesen (Scottish Rite for Children)
301	MAKING RATIOS IMPROVED - A CRITICAL ANALYSIS OF FACTORS IMPACTING MRI-BASED PATELLAR HEIGHT RATIOS IN ADOLESCENT PATIENTS	Brendan Williams (Children's Hospital of Philadelphia & University of Pennsylvania) ; Shital Parikh (Cincinnati Children's Hospital Medical Center); Matthew Veerkamp (Cincinnati Children's Hospital Medical Center); John Schlechter (Children's Hospital of Orange County); Sean Waldron (Shriner's Hospital for Children - Philadelphia); Lauren Redler (Columbia University); Megan Kuba (Children's Orthopaedics of Hawaii); Elise Bixby (Boston Children's Hospital); Sulagna Sarkar (The Children's Hospital of Philadelphia); David Kell (The Children's Hospital of Philadelphia); Eileen Crawford (University of Michigan); Stephanie Logterman (Arnold Palmer Hospital for Children); Kevin Orellana (The Children's Hospital of Philadelphia)
302	REACHING NEW HEIGHTS - RELIABILITY-DRIVEN FACTOR ANALYSIS OF RADIOGRAPHICALLY-DERIVED PATELLAR HEIGHT RATIOS IN ADOLESCENT PATIENTS	Brendan Williams (Children's Hospital of Philadelphia & University of Pennsylvania) ; Shital Parikh (Cincinnati Children's Hospital Medical Center); Matthew Veerkamp (Cincinnati Children's Hospital Medical Center); Sean Waldron (Shriner's Hospital for Children - Philadelphia); Lauren Redler (Columbia University Irving Medical Center); John Schlechter (Children's Hospital of Orange County); Stephanie Logterman (Arnold Palmer Hospital for Children); Eileen Crawford (University of Michigan); Sulagna Sarkar (The Children's Hospital of Philadelphia); Kevin Orellana (The Children's Hospital of Philadelphia); Megan Kuba (Children's Orthopaedics of Hawaii); David Kell (The Children's Hospital of Philadelphia)

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304	IMPACT OF THE COVID-19 QUARANTINE ON ATHLETIC PERFORMANCE AND MOTIVATION FOR SPORT PLAY IN MINORITIZED YOUTH ATHLETES	Bianca Edison (Children's Hospital Los Angeles - University of Southern California); Jacquelyn Valenzuela-Moss (Children's Hospital Los Angeles) ; Jordan Robinson (Children's Hospital Los Angeles); Tishya Wren (Children's Hospital Los Angeles - University of Southern California); Rachel Ceasar (University Southern California); Danielle Nelson (Yale University)
305	THE EFFECT OF THE ANATOMY OF THE FLEXOR HALLUCIS LONGUS ON OS TRIGONUM SYNDROME PRESENTATION IN PEDIATRIC AND ADOLESCENT POPULATIONS	Kathleen Maguire (Children's Hospital of Philadelphia) ; Morgan Swanson (Children's Hospital of Philadelphia); Nathan Chaclas (The Children's Hospital of Philadelphia)
307	THE INCIDENCE AND RECOVERY OF CONCUSSIONS IN HIGH SCHOOL FOOTBALL PLAYERS ON ARTIFICIAL TURF AND NATURAL GRASS SURFACES	Samuel Mosiman (University of Wisconsin-Madison); Timothy McGuine (University of Wisconsin-Madison); Alison Brooks (University of Wisconsin-Madison); Patrick Scerpella (University of Wisconsin-Madison) ; Erin Hammer (University of Wisconsin-Madison); Collin Nguyen (University of Wisconsin-Madison); Ethan Taylor (University of Wisconsin-Madison)
308	VESTIBULAR SWAY VELOCITIES AND OCULOMOTOR TRACKING DEFICITS IN PEDIATRIC MTBI PATIENTS FORMALLY EVALUATED AT A CONCUSSION CENTER	Alicia Chen (SPARCC) ; Joseph Marshall (SPARCC); Mo Mortazavi (SPARCC); Brett Dusenberry (SPARCC); Amal Anilkumar (SPARCC); Luke Maes (SPARCC); Jon Minor (SPARCC); Leslie Streeter (SPARCC); Jaden Bailey (SPARCC); Cindy Ong (SPARCC); James Dill (SPARCC); Anthony Gross (SPARCC)
309	FACTORS ASSOCIATED WITH MENISCAL REPAIR VERSUS PARTIAL MENISCECTOMY IN CHILDREN AND ADOLESCENTS FROM 2012 TO 2022	Alexandria Giese (University of Rochester Medical Center) ; Bianca Duah (University of Rochester Medical Center); Mina Botros (University of Rochester Medical Center); Derek Schloemann (University of Rochester Medical Center); Gabriel Ramirez (University of Rochester Medical Center); Caroline Thirukumaran (University of Rochester Medical Center); Sarah Lander (University of Rochester Medical Center)
310	REPEAT AND FIRST TIME PATELLAR DISLOCATION HAVE SIMILAR CHONDRAL INJURY PATTERNS, ALTHOUGH REPEAT DISLOCATIONS HAVE MORE SEVERE INJURY IN THE WEIGHT-BEARING PORTION OF THE FEMUR	Jeffrey Nepple (Washington University); Beltran Torres (Washington University in St Louis); Anmarie Wang (Washington University)
312	ARE THE OSWESTRY DISABILITY INDEX OR MICHELI FUNCTIONAL SCALE GOOD MEASURES FOR ADOLESCENT ATHLETES WITH LOW BACK PAIN?	Todd Degenhart (Nationwide Children's Hospital); Mitchell Selhorst (Nationwide Children's Hospital) ; Brittany Ibinson (Nationwide Children's Hospital); Michael Jackowski (Nationwide Children's Hospital); Christine Mansfield (Nationwide Children's Hospital); Christina Metzger (Nationwide Children's Hospital); Samuel Meyers (Nationwide Children's Hospital); William Rice (Nationwide Children's Hospital); Alexander Rospert (Nationwide Children's Hospital)
313	PERCEPTIONS OF PHYSICAL LITERACY RECALIBRATION FOLLOWING ADOLESCENT ACL RECONSTRUCTION: A QUALITATIVE STUDY	Christin Zwolski (Cincinnati Children's Hospital) ; Mark Paterno (Cincinnati Children's Hospital); Timothy Rethorn (North Central College); Laura Schmitt (The Ohio State University); Catherine Quatman-Yates (Ohio State University and Wexner Medical Center); Staci Thomas (Cincinnati Children's Hospital)
314	VALIDITY OF 2D SCREENING CRITERIA IN DETERMINING LOWER EXTREMITY INJURY RISK FACTORS IN ADOLESCENT FEMALE VOLLEYBALL PLAYERS: A COMPARISON OF QUALITATIVE AND POINT SELECTION TECHNIQUES TO 3D MOTION CAPTURE	Sophia Ulman (Scottish Rite for Children); Joseph Janosky (Lasell University); Amanda Black (University of Calgary); Dai Sugimoto (Waseda University); Lauren Butler (Florida International University); Gretchen Oliver (Auburn University); Charles Wyatt (Scottish Rite for Children); Michael Dressing (Joe DiMaggio Children's Hospital); Alex Loewen (Scottish Rite for Children); Jessica Garcia (Texas Scottish Rite Hospital for Children); Ashley Erdman (Scottish Rite for Children)
315	MICHELI-KOCHER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION YIELDS SIMILAR POSTOPERATIVE OUTCOMES AND RATES OF RETURN TO SPORTS AS ALL-EPIPHYSEAL TECHNIQUES: A SYSTEMATIC REVIEW	Alexander Zakharia (McMaster University); Ahmed Hatem; Fares Al Katanani; Saihaj Dhillon; Prushoth Vivekanantha; Dan Cohen Darren de SA (McMaster University)

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317	CAN ARTIFICIAL INTELLIGENCE BE USED TO CREATE ORTHOPAEDIC RESEARCH IDEAS ABOUT PEDIATRIC PATELLOFEMORAL INSTABILITY?	Sofia Hidalgo Perea (Hospital for Special Surgery) ; Claire Parker (Stony Brook University); James Barsi (Stony Brook University)
318	EFFICACY OF OBJECTIVE OCULOMOTOR TRACKING TO AID RETURN-TO-PLAY (RTP) DECISIONS IN PEDIATRIC CONCUSSION PATIENTS	Joseph Marshall (SPARCC); Luke Maes (SPARCC); Brett Dusenberry (SPARCC); Jon Minor (SPARCC); Leslie Streeter (SPARCC); Leila Samsam (SPARCC); Jaden Bailey (SPARCC); Cindy Ong (SPARCC); James Dill (SPARCC); Anthony Gross (SPARCC); Mo Mortazavi (SPARCC); Amal Anilkumar (SPARCC)
319	OUTCOMES OF ARTHROSCOPIC REPAIR OF GLENOID BONE DEFECTS IN ADOLESCENT ANTERIOR SHOULDER INSTABILITY	Emily Niu (Children's National Medical Center); Andrew Fealy (Children's National Medical Center) ; Jonathan Zember (Children's National Medical Center)
320	WHICH NEIGHBORHOOD-LEVEL METRIC IS MOST APPROPRIATE IN PEDIATRIC ORTHOPAEDIC HEALTH EQUITY RESEARCH?	Bryce Maxwell (Ann & Robert H. Lurie Children's Hospital of Chicago) ; Elizabeth Merritt (Ann & Robert H. Lurie Children's Hospital of Chicago); Sam Rosenberg (Ann & Robert H. Lurie Children's Hospital of Chicago); Michael Navarro (Ann & Robert H. Lurie Children's Hospital of Chicago); Emma Raffman (Ann & Robert H. Lurie Children's Hospital of Chicago); Neeraj Patel (Ann & Robert H. Lurie Children's Hospital of Chicago)
321	INCREASED BMI IS ASSOCIATED WITH INCREASED FAILURE AND DECREASED RETURN TO SPORT FOLLOWING MENISCUS REPAIR IN THE PEDIATRIC POPULATION	Kristen Reikersdorfer (Harvard Medical School) ; Serafina Zotter (Massachusetts General Hospital); Nikolaos Paschos (Massachusetts General Hospital)
322	HOW DO SOCIAL DETERMINANTS OF HEALTH RELATE TO TIME TO TREATMENT AND IMAGING?	Casey Kuka (The Children's Hospital of Philadelphia) ; Brendan Williams (Children's Hospital of Philadelphia & University of Pennsylvania); Neeraj Patel (Ann & Robert H. Lurie Children's Hospital of Chicago); Sulagna Sarkar (The Children's Hospital of Philadelphia); Elliot Greenberg (Children's Hospital of Philadelphia); Bridget Desandis (Children's Hospital of Philadelphia); Caroline Kim (The Children's Hospital of Philadelphia); David Kell (The Children's Hospital of Philadelphia)
323	COST-EFFECTIVENESS OF CARDIOVASCULAR SCREENING FOR PREVENTION OF SUDDEN CARDIAC ARREST IN HIGH SCHOOL ATHLETES	Abbey Santanello (Northwell)
324	ANTERIOR LIP DISPLACEMENT IS ASSOCIATED WITH UNPLANNED RETURN TO OPERATING ROOM AFTER OPERATIVE MANAGEMENT OF TIBIAL SPINE FRACTURES	Morgan Swanson (Children's Hospital of Philadelphia); Akbar Syed (The Children's Hospital of Philadelphia) ; Nathan Chaclos (The Children's Hospital of Philadelphia); Theodore Ganley (Children's Hospital of Philadelphia); Casey Kuka (The Children's Hospital of Philadelphia)
325	AQUOTIC IMPROVES SWIM PROFICIENCY AMONG CHILDREN ON THE AUTISM SPECTRUM	Erika Kemp (Ohio State University) ; Melica Nikahd (Ohio State University); Jewel Crasta (Ohio State University)
327	THE EFFECT OF INJURY DEFINITION ON INCIDENCE RATE IN ADOLESCENT CROSS-COUNTRY RUNNERS	Jeffery Taylor-Haas (Cincinnati Children's Hospital Medical Center) ; Jason Long (Cincinnati Children's Hospital Medical Center); Ashley Moulder (Cincinnati Children's Hospital Medical Center); Mitchell Rauh (San Diego State University)

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402	WHAT DO KIDS WANT? A QUALITATIVE EXPLORATION OF CHILDREN'S EXERCISE PREFERENCES	Gina Gugliotta (Cincinnati Children's Hospital Medical Center) ; Christin Zwolski (Cincinnati Children's Hospital Medical Center); Laine Anthony (University of Cincinnati)
403	INCIDENCE OF TIBIAL TUBERCLE FRACTURES IN PATIENTS WITH AND WITHOUT OS-GOOD-SCHLATTER DISEASE	Aristides Cruz Jr. (Brown University); James Albright (Brown University); Tucker Callanan (Rhode Island Hospital & Brown University); Rigel Hall (Creighton University); Helen Zhang (Brown University); Alan Daniels (Brown University); John Milner (Brown University)
404	NEGATIVE IMPACT OF UNMET NEEDS ON PEDIATRIC ORTHOPEDIC PATIENTS	Justin Jensen (University of Texas Austin) ; K. Wagner III (University of Texas Austin); Landon Ashby (University of Texas Austin); David Ring (University of Texas Austin); Matthew Ellington (University of Texas Austin)
405	USING PATIENT-SPECIFIC KNEE MODELS TO QUANTIFY KNEE MECHANICS DIFFERENCES BETWEEN ADOLESCENTS WITH AND WITHOUT PATELLOFEMORAL INSTABILITY DURING A LUNGE TASK	Annagh Macie (University of Ottawa) ; Allison Clouthier (University of Ottawa); Daniel Benoit (University of Ottawa); Sasha Carsen (Children's Hospital of Eastern Ontario); Alicia Kerrigan (Children's Hospital of Eastern Ontario)
406	COMPARISON OF MOVEMENT VARIABILITY FOLLOWING ACL RECONSTRUCTION SURGERY	Eric Dugan (Texas Children's Hospital and Baylor College of Medicine) ; Sierra Hastings (Texas Children's Hospital); Katelyn Campbell (Texas Children's Hospital)
407	CHARACTERISTICS OF LUMBAR PARS INTERARTICULARIS AND PEDICLE STRESS INJURIES BY SPORT IN 902 PEDIATRIC AND ADOLESCENT ATHLETES: A RETROSPECTIVE STUDY	William Meehan III (Boston Children's Hospital); Daniel Hedequist (Boston Children's Hospital); Cynthia Stein (Boston Children's Hospital); Michael O'Brien (Boston Children's Hospital); Lyle Micheli (Boston Children's Hospital); Michael Beasley (Children's Hospital of Philadelphia); Danielle Hunt (Boston Children's Hospital); Sarah Willwerth (Brown University); John Kriz (Vanderbilt University); Peter Kriz (Boston Children's Hospital)
408	A QUANTITATIVE ASSESSMENT OF PAIN AND OPIOID CONSUMPTION IN THE WEEK FOLLOWING ACL RECONSTRUCTION FOR ADOLESCENT PATIENTS	Theodore Ganley (Children's Hospital of Philadelphia); Divya Talwar (Children's Hospital of Philadelphia); Vineet Desai (Children's Hospital of Philadelphia); Richa Gandhi (The Children's Hospital of Philadelphia); Morgan Swanson (Children's Hospital of Philadelphia); Brendan Williams (Children's Hospital of Philadelphia & University of Pennsylvania); Christopher DeFrancesco (The Children's Hospital of Philadelphia)
409	LOCATION ON RECOVERY	Cati Kral (Children's Mercy) ; Brian Harvey (Children's Mercy Hospital); Kevin Latz (Children's Mercy Hospital); Shannon Margherio (Children's Mercy); Joshua Cummings (Children's Mercy Hospital); Ellie Helton (Children's Mercy Hospital)
410	THE EFFECTS OF INJURY ON PAIN INTERFERENCE AND PEER RELATIONSHIPS DURING A HIGH SCHOOL FEMALE FLAG FOOTBALL SEASON	Hannah Rossing (Children's Hospital Colorado) ; Madison Brna (University of North Carolina - Chapel Hill); Savannah Troyer (Children's Hospital Colorado); Claire Giachino (Children's Hospital Colorado); Curtis VandenBerg (University of Southern California); David Howell (Children's Hospital Colorado); Aubrey Armento (Children's Hospital Colorado); Jay Albright (Children's Hospital Colorado)
411	CAN IN VIVO ARTHROSCOPIC PEDIATRIC RADIAL MENISCUS TEAR REPAIRS MATCH THE BIOMECHANICAL PERFORMANCE OF LABORATORY MENISCUS REPAIRS?	Kevin Shea (Stanford University); Andrew Huang (Stanford University) ; Austin Stoner (Stanford University); Alan Anaya Gallegos (Stanford University); Nneoma Duru (Stanford University); Amin Alayleh (Stanford University); Calvin Chan (Stanford University); Neha Boinpally (Stanford University); Bryan Khoo (Stanford University); Matthew Schmitz (United States Airforce); Marc Tompkins (University of Minnesota); Yi-Meng Yen (Boston Children's Hospital); Theodore Ganley (Children's Hospital of Philadelphia); Molly Meadows (Stanford University); Charles Chan (Stanford University); Grady Hofmann (Stanford University)
412	INJURY PATTERNS IN YOUTH POLE VAULTING	Martha Kebeh (Children's Hospital of Philadelphia & University of Pennsylvania) ; Theodore Ganley (Children's Hospital of Philadelphia); Divya Talwar (Children's Hospital of Philadelphia); Kevin Landrum (Children's Hospital of Philadelphia)

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413	PHYSEAL-SPARING ITB ACL RECONSTRUCTION: CAN WE REDUCE ITB GRAFT LENGTH AND SYMPTOMATIC VASTUS MUSCLE HERNIATION?	Nneoma Duru (Stanford University) ; Austin Stoner (Stanford University); Amin Alayleh (Stanford University); Dane Lind (University of Texas Southwestern) Cassidy Schultz (Scottish Rite for Children); Nicole Pham (Stanford University); Henry Ellis (Scottish Rite for Children); Yi-Meng Yen (Boston Children's Hospital); Marc Tompkins (University of Minnesota); Matthew Schmitz (United States Airforce) Theodore Ganley (Children's Hospital of Philadelphia); Molly Meadows (Stanford University); Charles Chan (Stanford University); Kevin Shea (Stanford University)
415	THE TRIAGING OF PEDIATRIC SPORTS SURGERIES – WHAT IS URGENT AND WHAT IS “ELECTIVE”?	Sasha Carsen (Children's Hospital of Eastern Ontario); Aristides Cruz Jr. (Brown University); Henry Ellis (Scottish Rite for Children); Curtis Vandenberg (University of Southern California); Stephanie Mayer (Children's Hospital Colorado); Emily Niu (Children's National Medical Center); Jennifer Beck (UCLA); Shalin Shah (Children's Hospital of Eastern Ontario)
416	THE ASSOCIATION OF WEIGHT LOSS AND EATING DISORDER DIAGNOSES IN ADOLESCENTS DIAGNOSED WITH STRESS FRACTURES	Audrey Potts (Mayo Clinic) ; David Soma (Mayo Clinic); Leslie Sim (Mayo Clinic); Jocelyn Lebow (Mayo Clinic); Marcie Billings (Mayo Clinic); Roland Hentz (Mayo Clinic); Joel Hickman (Mayo Clinic)
417	RETURN TO SPORTS TESTING USING 3D MOTION ANALYSIS AFTER ANKLE FRACTURE	Jeremy Bauer (Oregon Health and Sciences University) ; Sean Waldron (Shriners Hospital for Children - Philadelphia); Ross Chafetz (Shriners Hospital for Children, Philadelphia); Patrick Do (Shriners Hospital for Children); Jacob Carl (Shriners Hospital for Children)
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Faculty Lists and Disclosures

Beth Ackerman
Speaker

Aubrey Armento
Speaker, Co-Author

Katherine Bach
Co-Author

Michael Baham
Speaker

David Baird
Speaker

Tyler Barker
Co-Author

Jeremy Bauer
Speaker
orthopediatrics Consultant

Elise Bixby
Speaker
Arthrex, Smith + Nephew Other

Anne Blackstone
Speaker

Donna Blankenbaker
Co-Author

Margaret Bowen
Speaker

Joshua Bram
Speaker

Jason Brenner
Speaker

Madi Brna
Speaker, Co-Author

Wesley Bryant
Speaker

Lauren Butler
Speaker, Reviewer

Parker Cavendish
Co-Author

Alicia Chen
Speaker

Claire Clark
Speaker

Aristides Cruz
Speaker

Celina de Borja
Speaker

Christopher DeFrancesco
Speaker

Alexandra Dejneka
Speaker

Antonio DelCastillo
Speaker

Bridget DeSandis
Speaker, Co-Author

Anchal Dhawan
Speaker

Stefano DiCenso
Speaker

Catherine Donahue
Speaker, Co-Author

Andrew Donaldson
Speaker

Mauricio Drummond junior
Speaker

Eric Dugan
Speaker

Anthony Dure
Speaker

Nneoma Duru
Speaker

Eric Edmonds
Speaker, Co-Author, Planning Committee
Arthrex Speakers Bureau

Henry Ellis
Speaker

Ashley Erdman
Speaker

Andrew Fealy
Speaker

David Flanigan
Co-Author

Cassidy Foley Davelaar
Speaker

Eric Fornari
Speaker
GE Healthcare Consultant

William Galardi
Speaker

Francesca Genoese
Speaker

Austin Gerwig
Speaker

Alexandria Giese
Speaker

Javier Gonzalez
Speaker

Shiho Goto
Speaker

Matt Grady
Speaker

Daniel Green
Speaker, Co-Author
pega medical Consultant
Arthrex Consultant

Elliot Greenberg
Speaker, Planning Committee

Gina Gugliotta
Speaker

Lauren Han
Speaker

Kris Haskin
Planner, CE Coordinator

Sierra Hastings
Speaker

Sofia Hidalgo Perea
Speaker

Andrew Huang
Speaker

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Speaker

Joseph Janosky
Speaker, Chair, Co-Author, Moderator

Justin Jensen
Speaker

Ruth Jones
Speaker, Co-Author

Jacob Jones
Speaker, Reviewer, Co-Author

Faculty Lists and Disclosures

Christopher Kaeding

Co-Author
Arthrex Consultant

Martha Kebeh

Speaker

Erika Kemp

Speaker

Bryan Khoo

Speaker

James Kirven

Co-Author

Joshua Kniss

Speaker

Regina Kostyun

Speaker

Cati Kral

Speaker

Peter Kriz

Speaker

Angie Kuang

Speaker, Co-Author

Christopher Kuenze

Speaker, Co-Author
Inova Health System Consultant

Casey Kuka

Speaker, Co-Author

Kevin Landrum

Speaker

Nicholas Laucis

Co-Author

Patrick Ledwidge

Speaker

Alex Loewen

Speaker, Reviewer, Co-Author

Connor Luck

Speaker

Taia MacEachern

Speaker

Robert Magnussen

Co-Author
Moximed Research Grant Site Principal Investigator
Smith Nephew Research Grant Site Principal Investigator
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Emily Malik

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Adam Mansour

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James McGinley

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Daniel McLoughlin

Speaker

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Speaker

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Speaker
Elsevier, Inc Other Financial or Material Support

Shane Miller

Speaker

Eric Milliron

Co-Author

John Milner

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Speaker

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Speaker

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Speaker

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Speaker

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Speaker

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Speaker

Faculty Lists and Disclosures

Heather Richard
Speaker

Dylan Roman
Speaker

Hannah Rossing
Speaker

Tracy Sandstrom
CE Coordinator

Luke Sang
Speaker

Michael Saper
Speaker

Samantha Scarneo-Miller
Speaker

Patrick Scerpella
Speaker, Co-Author

Greg Schmale
Speaker

Cassidy Schultz
Speaker

Mitchell Selhorst
Speaker

Teonna Sharpe
Co-Author

Mutaleeb Shobode
Speaker

Michael Silva
Speaker

Rishi Sinha
Speaker

Katie Sloma
Speaker

Andrea Spiker
Co-Author
Stryker Consultant

Quinn Steiner
Co-Author

Karine Stoelben
Speaker, Reviewer

Austin Stoner
Speaker

Tetsuro Sueyoshi
Speaker

Dai Sugimoto
Speaker, Poster presenter

Morgan Swanson
Speaker

Colleen Sweeney
Speaker

Emily Sweeney
Speaker

Akbar Syed
Speaker, Co-Author

Divya Talwar
Speaker

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Jeff Taylor-Haas
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Gianna Tito
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Ashley Triplett
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PRISM OFFICE

555 East Wells Street, Suite 1100

Milwaukee, WI 53202

Phone: 414.918.9876

Email: info@prismsports.org



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