



PRiSM

Pediatric Research in
Sports Medicine Society

PRiSM 7th

ANNUAL MEETING

JANUARY 23-25, 2020

RENAISSANCE PHOENIX GLENDALE HOTEL & SPA

GLENDALE, AZ





BEST
CHILDREN'S
HOSPITALS

U.S. News & WORLD REPORT

ORTHOPEDICS
2019-20

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or visit phoenixchildrens.org/sportsmed



PHOENIX
CHILDREN'S

SPORTSMED

WELCOME TO THE VALLEY OF THE SUN!

We are delighted to have you join us for the 7th annual Pediatric in Research Sports Medicine meeting in Glendale, Arizona! This year's scientific program features the presentation of just over 200 original abstracts.

In addition to the increased number of scientific research presentations, the 2020 PRiSM meeting will once again feature three outstanding keynote speakers, continue to build relationships with other organizations vested in progressing the field of pediatric sports medicine, and provide various opportunities for our diverse membership to network with other members of the organization within and outside of their profession. A focus of the planning committee this year was to provide opportunities to members in all stages of their careers while at the same time recognizing the diversity of the organization. In addition, we continue to look outside our organization to continue to build partnerships with other organizations with similar missions and visions. Some highlights of the meeting include, mentoring opportunities for younger members through a senior mentor panel as well as a lunch and learn opportunity for early to mid-career members to pitch research ideas to an expert panel including Mr. Chuck Washbaugh from the National Institutes of Health. There will be presentations on the transgender athlete and utilizing social media in your practice. Lastly, representatives from the National Federation of High School Sports (NFHSS) will also be in attendance to discuss how research can drive rules changes to promote youth athlete safety.

Our objective in creating the scientific program for the 2020 annual meeting was to recognize the diversity in our membership through building collaborative relationships while at the same time bringing the PRiSM membership a step closer to achieving excellence in pediatric sports medicine research. Each year, the quality of the research submitted to the meeting increases and this year is no exception. We are pleased to bring just over 70 abstracts to the podium through the scientific sessions and a Nine While You Dine lunch and learn. This meeting would not be possible without all of the hard work, commitment, and enthusiasm to advancing the world of pediatric sports medicine by each of you, and for that, we Thank You! As always, we have a packed agenda over the three days, but have made an effort to provide opportunities for you to also enjoy time to network and take in some fresh air outside. We truly look forward to sharing with you why Phoenix is the fastest growing city in the country by enjoying "winter" in the Southwest with you!

Your 2020 Scientific Program Committee Chairs,

Kristina Wilson, MD, MPH, CAQSM
2020 Scientific Program Committee Chair
Mark Paterno, PT, PhD, MBA, SCS, ATC
1st Vice President

Scott McKay, MD
2021 Scientific Program Committee Chair
Cordelia Carter, MD
2019 Scientific Program Committee

ABOUT OUR MEETING

The PRiSM 7th Annual Meeting is designed to provide high-quality dissemination of information in the basic sciences, prevention, diagnosis, treatment, and technological advances in the multi-disciplinary areas of sports medicine for children and adolescents. The Scientific Program Committee has worked hard to provide a diverse, innovative and well-rounded program that incorporates feedback from previous Annual Meetings. As a result, we are pleased to offer you two full days of multidisciplinary education, engaging experts in the field of pediatric sports medicine, and collaboration opportunities.

PRISM MISSION

To foster and stimulate interdisciplinary professional education, research and interest in pediatric and adolescent sports medicine and, in this regard, to promote and participate in high-quality research and the advancement of understanding in the field of pediatric and adolescent sports medicine.

TARGET AUDIENCE

The target audience for the PRiSM 7th Annual Meeting includes athletic trainers, physical therapists, mid-level providers, radiologists, sports medicine providers, orthopedic surgeons, orthotists, rehab engineers, kinesiologists, nutritionists, educators, administrators, researchers, and all others concerned with pediatric and adolescent sports medicine.

ANNUAL MEETING OBJECTIVES

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

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

ACCREDITATION

Physicians & Nurses



JOINTLY ACCREDITED PROVIDER™
INTERPROFESSIONAL CONTINUING EDUCATION

In support of improving patient care, this activity has been planned and implemented by Amedco LLC and Client Name Here. 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.

Credit Designation Statement – Amedco LLC designates this live activity for a maximum of 22.50 *AMA PRA Category 1 Credits™* for physicians and 22.50 contact hours for nurses. Learners should claim only the credit commensurate with the extent of their participation in the activity.

Board of Certification – Athletic Trainers

Amedco LLC is accredited by the Board of Certification, Inc. to provide continuing education to Athletic Trainers – BOC AP# P10120 and designates this live activity for a maximum of 22.50 Category A hours/CEUs. ATs should claim only those hours actually spent in the educational program.

Texas Board of Physical Therapy

This course has been submitted for review to the Texas Board of Physical Therapy. Please check back for updated information.

EVALUATIONS AND CEU CERTIFICATES

How to Get Your Certificate:

1. Go to <http://prism.cmecertificateonline.com>
2. Click on the "2020 7th Annual Meeting" link.
3. Evaluate the meeting.
4. Print all pages of your certificate for your records.

Questions? Email Certificate@AmedcoEmail.com

ACKNOWLEDGEMENTS

The **Pediatric Research in Sports Medicine Society** would like to thank the following organizations for their generous support of the Society and 7th Annual Meeting...



Smith+Nephew



OrthoPediatrics

EXHIBITS

We would like to thank the following companies for exhibiting at PRISM's 7th Annual Meeting. Exhibits are located in Solana F-I. These companies and organizations help to make our Annual Meeting possible, and we encourage you to visit the exhibits.

Arthrex

Cavalier Medical Systems

CONMED

Children's Health Andrews Institute for Orthopaedics & Sports
Medicine with Rank One Sport + Health

EliteCare

Smith & Nephew

Texas Children's Hospital Orthopedics & Sports Medicine

VULCAM

ANNOUNCEMENTS

Cell Phones

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

Internet Access

Complimentary internet is available throughout the conference center and hotel.

Network: Renaissance-Conf

Password: PRISM2020

Meals

Breakfast and lunch will be provided on Friday, January 24th and Saturday, January 25th. Continental breakfast and lunches will be available in Solana F-I.

Networking Reception- Friday, January 24th

A one-hour networking reception will be held in Solana F-I at 6:30pm. Participants will have a chance to speak with colleagues, exhibitors and poster presenters while enjoying light hors d'oeuvres.

REGISTRATION DESK HOURS

Wednesday	5:00pm-7:00pm
Thursday	6:30am-6:30pm
Friday	6:30am-6:30pm
Saturday	6:30am-10:00am

POSTER AND EXHIBIT HALL HOURS

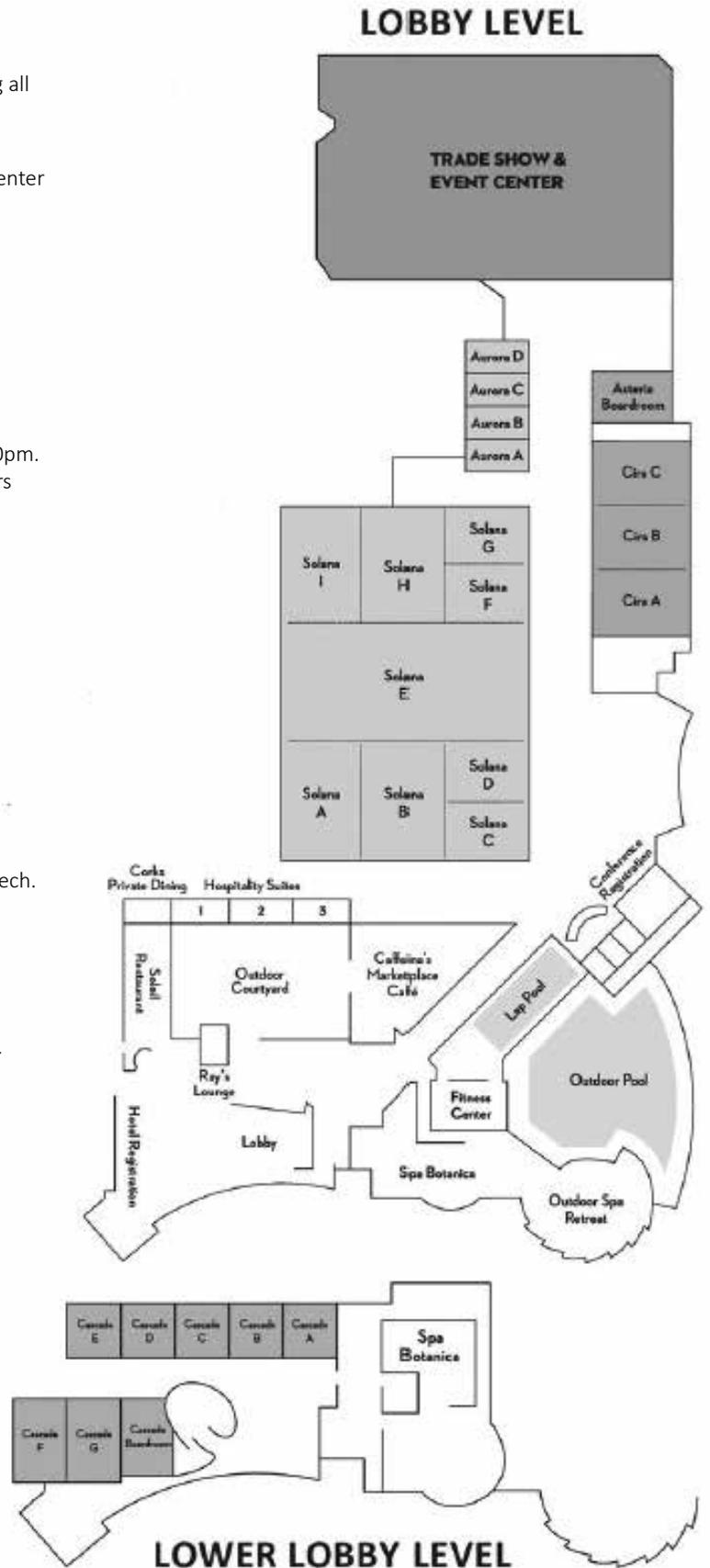
Thursday	2:00pm-5:30pm
Friday	7:00am-6:30pm
Saturday	7:00am-2:00pm

PRESENTERS

Please bring your presentation on a flash drive to the on-site AV tech. A technician will be available the following times:

Wednesday, January 22	5:00pm- 7:00pm
Thursday January 23	7:00am- 3:00pm
Friday, January 24	7:00am- 4:00pm
Saturday, January 25	7:00am- 10:00am

All presentations must be uploaded at least 3 hours prior to your scheduled speaking time.



Wednesday, January 22, 2020

5:00- 7:00pm

REGISTRATION

LOCATION

Foyer

Thursday, January 23, 2020

6:30am- 6:30pm

REGISTRATION

Foyer

7:30am- 12:30pm

PRE-COURSE: Return to Sport Head to Toe

Cira A/B

The 2020 PRISM preconference will take a physiologic, functional and psychological approach to returning the young athlete back to sport. In this interactive, multidisciplinary session, a review of evidence-based practice will be discussed through both a lecture and lab format. Participants will have the opportunity to ask questions, create discussions and perform functional tests in the return to sport process following injuries from a concussion, the spine, the upper and lower extremities.

Program Chair: *Donna Merkel, PT, MS, SCS, CSC*

Program Faculty:

Lab 1: Concussion

Tamara Valovich McLeod, ATC and Katherine Rizzone, MD

Lab 2: Lower Extremity

Matt Ellington, MD, Kevin McHorse, PT and Taylor Melian, PA-C, ATC, LAT

Lab 3: Upper Extremity

Matt Fryberger, PT, Elliot Greenberg, PT, Meredith Link, PT, DPT, ATC, CSCS

Lab 4: Spine

Emily Sweeney, MD, Kaitlyn Flynn, PT, DPT, SCS, Sarah Reinking, PT, DPT, SCS

AGENDA

7:30- 7:50

Opening remarks and introduction- *Mark Paterno, PT, PhD, MBA, SCS, ATC*

7:50- 8:10

Lecture 1 (Spine)

8:10- 8:30

Lecture 2 (Lower Extremity)

8:30- 8:50

Lecture 3 (Upper Extremity)

8:50- 9:10

Lecture 4 (Concussion)

9:10- 9:20

Group Assignments

9:20- 9:35

Break

9:35 - 10:05

Lab Session 1

10:05- 10:35

Lab Session 2

10:35- 11:05

Lab Session 3

11:05- 11:35

Lab Session 4

11:35- 11:45

Break

11:45- 12:15

Psychological readiness in return to sport- *Henry Ellis, MD and Matt Milewski, MD*

12:15- 12:30

Discussion and wrap up- *Mark Paterno, PT, PhD, MBA, SCS, ATC*

12:30- 1:30pm

COMMITTEE MEETINGS

Awards

Cascade A

Communications

Aurora C/D

Diversity

Asteria Boardroom

Education

Aurora C/D

Membership

Cascade D

Research

Cascade E

Nominating

Cascade B

2:00- 2:15pm

WELCOME

Solana E

Andrew Gregory, MD and Mark Paterno, PT, PhD, MBA, SCS, ATC

Thursday, January 23, 2020

LOCATION

2:15-2:45pm

WELCOME PRESENTATION

DECREASING RISK FACTORS OF SHOULDER INJURIES IN OVERHEAD PEDIATRIC ATHLETES

Todd Ellenbecker, DPT, MS, SCS, OCS, CSCS



Todd Ellenbecker is a physical therapist who joined Rehab Plus Sports Therapy Scottsdale in August of 2018 after serving as Clinic Director and Director of Clinical Research for Physiotherapy Associates Scottsdale Sports Clinic for 23 years. He is also the Vice President of Medical Services for the ATP World Tour.

He received his degree in Physical Therapy from the University of Wisconsin-LaCrosse in 1985 and a master's degree in Exercise Physiology from Arizona State University in 1989. He completed his Doctor of Physical Therapy from MGH –Institute of Health Professions in 2006. In addition, he is certified as a Sports Clinical Specialist, and Orthopaedic Clinical Specialist by the APTA. He is

a Certified Strength and Conditioning Specialist by the NSCA and was awarded their Sports Medicine Professional of the Year in 2003. He is a certified USPTA tennis teaching master professional, and was Chairman of the USTA National Sport Science Committee for 12 years, serving on the committee for more than 30 years. In 2007 he received the Ron Peyton award by the Sports Physical Therapy Section and in 2008 was the recipient of Samuel Hardy Educational Merit award from the International Tennis Hall of Fame. He received the Turner A. Blackburn Hall of Fame/Lifetime Achievement Award from the Sports Physical Therapy Association in 2011. Todd continues as a member of the Thera-Band Research Advisory Committee (TRAC) since its inception in 1998.

Ellenbecker served as the Chairman of the APTA's Shoulder Special Interest Group from 1996 to 2002, and is a manuscript reviewer for the American Journal of Sports Medicine, and serves on 3 editorial boards: International Journal of Sports Physical Therapy, Sports Health, and Physical Therapy in Sport. He has conducted, published, and presented research primarily on upper extremity athletes, as well as shoulder and elbow rehabilitation. His main focus of research has been on musculoskeletal adaptations in elite level tennis players and overhead athletes. He is the author/editor of 15 books, over 75 book chapters and has published over 55 peer reviewed articles in scientific journals. Ellenbecker lives in Scottsdale Arizona with his wife Gail and is a lifelong tennis player.

Solana E

2:45-3:45pm

UPPER EXTREMITY CASES

CASE PRESENTATION and PANEL DISCUSSION

Moderator: *Mark Paterno, PT, PhD, MBA, SCS, ATC*

Panel: *Todd Ellenbecker, DPT, MS, SCS, OCS, CSCS, Carl Nissen, MD, Mike Beasley, MD, Peter Kriz, MD, Matt Schmitz, MD*

Solana E

3:45-4:00pm

EXHIBIT AND POSTER VIEWING BREAK

Solana F-I

4:00-4:45pm

SCIENTIFIC PAPERS 1– CONCUSSION

Moderator: *Donna Merkel, PT, MS, SCS, CSC*

4:00-4:04 EMERGING CONCEPTS

Donna Merkel, PT, MS, SCS, CSC

4:05-4:10 ACADEMIC CONCERNS, REQUESTED AND RECEIVED SUPPORT AMONG ADOLESCENTS IN THE FOUR WEEKS FOLLOWING CONCUSSION: A PILOT STUDY
Traci Snedden, PhD, RN, CPNP

4:11-4:16 GENDER DIFFERENCES IN REPORTED RECOVERY TIME FROM SPORTS-RELATED CONCUSSION IN DUAL GENDER SPORTS FROM 2012-2017
Christine Ellis, APRN, CPNP-PC

4:17-4:22 QUALITY-OF-LIFE OUTCOMES AND ACADEMIC CONCERNS FOLLOWING PEDIATRIC CONCUSSION: INITIAL FINDINGS FROM THE PRISM CONCUSSION RIG
David R. Howell, PhD

4:23-4:28 A PROSPECTIVE STUDY ON THE INCIDENCE, MECHANISMS AND RISK FACTORS FOR SPORT RELATED CONCUSSIONS IN HIGH SCHOOL SOCCER PLAYERS
Timothy A. McGuine, PhD, ATC

4:29-4:45 DISCUSSION

Solana E

Thursday, January 23, 2020

LOCATION

4:00-4:45pm

SCIENTIFIC PAPERS 2– ACL

Moderator: *Matt Ellington, MD*

4:00-4:04 EMERGING CONCEPTS
Matt Ellington, MD

4:05-4:10 TRENDS IN CONCOMITANT MENISCAL SURGERY AMONG PEDIATRIC PATIENTS UNDERGOING ACL RECONSTRUCTION: AN ANALYSIS OF ABOS PART II CANDIDATES FROM 2000-2016
Burke Gao, MD

4:11-4:16 LIMB SYMMETRY IS NOT ENOUGH: ESTABLISHMENT OF HEIGHT NORMALIZED HOP DISTANCES WITHIN HEALTHY YOUTH ATHLETES
Elliot Greenberg, PT, PhD

4:17-4:22 COMPARISON OF BONE-PATELLA TENDON-BONE (BTB) AND QUADRICEPS AUTOGRAFT FOR ACL RECONSTRUCTION IN PATIENTS UNDER 18 YEARS OF AGE
Aaron D. Gray, MD

4:23-4:28 USE CAUTION WHEN ASSESSING PRE-OPERATIVE LEG LENGTH DISCREPANCY IN PEDIATRIC PATIENTS WITH ANTERIOR CRUCIATE LIGAMENT INJURIES
Peter D. Fabricant, MD, MPH

4:29-4:45 DISCUSSION

Cira A/B

4:45-5:30pm

SCIENTIFIC PAPERS 3– ATHLETES IN MOTION

Moderator: *Susan Kanai, PT*

4:45-4:52 RESEARCH UPDATE & LITERATURE HIGHLIGHTS
Jason Rhodes, MD

4:53-4:58 MOVEMENT VARIABILITY IN PRE-TEEN AND TEENAGE ATHLETES DURING SPORTS RELATED TASKS
Bianca Edison, MD, MS, FAAP

4:59-5:04 PHYSICAL LITERACY IN ELEMENTARY PHYSICAL EDUCATION: A SURVEY OF FUNDAMENTAL MOVEMENT SKILL PRACTICE PATTERNS
Lauren Butler, PT, DPT, SCS

5:05-5:10 EFFECTS OF A SIMULATED GAME ON PITCHING KINEMATICS IN YOUTH FEMALE SOFTBALL PITCHERS
Gretchen D. Oliver, PhD, FACSM, ATC

5:11-5:16 SPINAL RANGE OF MOTION AND BACK PAIN IN FEMALE ARTISTIC GYMNASTS DURING BACK WALKOVERS AND BACK HANDSPRINGS
Emily A. Sweeney, MD

5:17-5:30 DISCUSSION

Solana E

4:45-5:30pm

SCIENTIFIC PAPERS 4– HIPS TO ANKLES

Moderator: *Laura Boucher, PhD, ATC*

4:45-4:52 RESEARCH UPDATE & LITERATURE HIGHLIGHTS
Allison Crepeau, MD

4:53-4:58 THE UTILITY OF MRI IN CLINICAL DECISION-MAKING FOR PEDIATRIC ATHLETES WITH SYMPTOMATIC SUBFIBULAR OSSICLES
James G. Gamble, MD, PhD

4:59-5:04 OSTEOCHONDRAL LESIONS OF THE TALUS: FACTORS PREDICTIVE OF CARTILAGE INTEGRITY
Crystal Perkins, MD

5:05-5:10 OUTCOME OF SURGICAL TREATMENT IN PATIENTS WITH BORDERLINE ACETABULAR DYSPLASIA: A COMPARATIVE ANALYSIS OF HIP ARTHROSCOPY AND PERIACETABULAR OSTEOTOMY
Jeffrey J. Nepple, MD

5:11-5:16 CHARACTERIZING THE PREVALENCE OF CAM-TYPE HIP IMPINGEMENT IN PROFESSIONAL WOMEN'S ICE HOCKEY PLAYERS
Cordelia W. Carter, MD

5:17-5:30 DISCUSSION

Cira A/B

Thursday, January 23, 2020

		<u>LOCATION</u>
5:30-6:30pm	PRiSM RESEARCH INTEREST GROUP MEETINGS (Group 1) Meniscus MSK Ultrasound Concussion Shoulder Instability Spine/Spondy Tibial Spine Motion Analysis Injury Prevention	Cira C Cascade B Cascade C Cascade D Cascade E Cascade E Aurora C Aurora D Asteria Boardroom
6:30-7:15pm	Important Things I Wish I Learned During School and Training, But Never Did <i>Alfred Atanda, MD, Greg Meyer, PhD, Tamara Valovich McLeod, PhD, ATC, FNATA</i>	Cira A/B
6:30-7:15pm	Advanced Practice Provider Mixer <i>Kristina Johnson, ATC, OPA-C</i>	Lobby/Ray's Lounge

Friday, January 24, 2020

		<u>LOCATION</u>
6:30am-6:30pm	REGISTRATION	Foyer
7:00-8:00am	BREAKFAST	Solana F-I
7:30-8:00am	PRISM BUSINESS MEETING	Solana E
8:00-9:30	GENERAL SESSION	Solana E
8:00-8:05am	WELCOME & INTRODUCTION TO SCIENTIFIC PROGRAM <i>Andrew Gregory, MD and Kristina Wilson, MD</i>	
8:05-8:50am	SCIENTIFIC PAPERS 5— SPORTS EPIDEMIOLOGY Moderator: <i>Randon Hall, MD</i>	
8:05-8:09	EMERGING CONCEPTS <i>Randon Hall, MD</i>	
8:10-8:15	RELATIONSHIPS BETWEEN SPORT SPECIALIZATION AND RUNNING-RELATED INJURY AMONG COMPETITIVE HIGH SCHOOL CROSS-COUNTRY RUNNERS <i>Mitchell J. Rauh, PT, PhD, MPH</i>	
8:16-8:21	COMPARING RATES OF TIBIAL SPINE FRACTURES TO ACL TEARS: A 7-YEAR TREND <i>Julien T. Aoyama, BA</i>	
8:22-8:27	PEAK LOWER EXTREMITY SOCCER INJURIES OCCUR IMMEDIATELY FOLLOWING GROWTH IN ADOLESCENTS: AN EPIDEMIOLOGIC REVIEW OF EMERGENCY DEPARTMENT VISITS <i>Shane M. Miller, MD</i>	
8:28-8:33	SEX AND AGE-BASED DIFFERENCES IN PEDIATRIC BASKETBALL INJURIES <i>Aaron J. Zynda, BS, CCRP</i>	
8:34-8:39	THE EPIDEMIOLOGY OF TIBIAL SPINE FRACTURES IN CHILDREN: A MULTICENTER INVESTIGATION <i>Julien T. Aoyama, BA</i>	
8:50-9:20am	SPORTS MEDICINE NIH RESEARCH OPPORTUNITIES <i>Charles Washabaugh, PhD</i>	
9:30-10:30am	CONCURRENT INSTRUCTIONAL COURSES	
	IC1: OSTEOCHONDRITIS DISSECANS OF THE KNEE: A CASE BASED APPROACH <i>Marc Tompkins, MD, Paul Saluan, MD, Andy Pennock, MD, Cliff Willimon, MD, Lee Pace, MD</i> Osteochondritis Dissecans (OCD) of the knee continues to present treatment challenges. At its onset, this condition affects subchondral bone that can progress to involve the adjacent articular cartilage. Due to its relative rarity, high quality research has been lacking regarding pathogenesis, natural history and outcomes of treatment. This course will provide a case-based approach to OCD of the knee with members of the Research in Osteochondritis Dissecans of the Knee (ROCK) Group as a way to discuss the pathology, natural course, imaging patterns, surgical and non-surgical treatment options, and treatment outcomes of OCD of the knee.	Solana E
	IC2: CONDUCTING RESEARCH IN YOUTH AND ADOLESCENT SPORTS SETTINGS-STRATEGIES FOR SUCCESS <i>Tim McGuine, PhD, ATC, Eric Post, PhD, ATC, Tamara Valovich McLeod PhD, ATC, FNATA</i> There is a great need for high quality sports injury research studies that are conducted in youth and adolescent sport settings. Studies that collect data in “real sport” settings are likely produce findings that are more generalizable and impactful than studies that solely utilize laboratory or clinic populations. However, carrying out research in athletic populations presents a unique set of challenges that can be formidable and difficult to overcome. The goal of this presentation will be to provide clinicians and researchers, strategies to insure success to plan and carry out various descriptive, cohort, outcomes and randomized trial research designs utilizing youth and adolescent athletes in field (non-clinical) settings.	Cira A/B
10:30-10:45am	EXHIBIT AND POSTER VIEWING BREAK	Solana F-I
10:45-11:00am	SPONSOR HIGHLIGHT: PHOENIX CHILDREN’S HOSPITAL <i>Jeff Vaughn, MD</i>	Solana E

Friday, January 24, 2020

11:00-12:00pm

KEYNOTE PRESENTATION

PARENTING AND COACHING IN THE SHADOW OF CTE

Peter Cummings, MSc, MD



Dr. Peter Cummings is board certified anatomic, forensic and neuropathologist. He earned his medical degree from the Royal College of Surgeons in Dublin, Ireland. He completed his residency and neuropathology fellowship at the University of Virginia. Following residency, Dr. Cummings completed a fellowship in forensic pathology at the Boston Office of the Chief Medical Examiner where we worked as a medical examiner and the director of forensic neuropathology. He is a former associate professor of anatomy and neurobiology at Boston University and is currently the founder and CEO of Veritas Sports Injury Network, a group dedicated to improving and promoting health and safety in all youth sports. Most importantly, Dr. Cummings is the father of a 13 year old youth football player and a flag and tackle football coach. He is also a functional movement and sports nutrition expert with a focus on youth athlete health and is a member of the American College of Sports Medicine.

LOCATION

Solana E

12:00-1:45

Lunch

Solana F-I

12:30-1:30pm

LUNCH AND LEARN SESSIONS 1-2

1. NIH RESEARCH

Charles Washabaugh, MD, Tina Master, MD, Katie Rizzone, MD

Solana E

2. TOP 9 POSTERS WHILE YOU DINE

PATIENT-REPORTED AND OBJECTIVE MEASURES OF PHYSICAL ACTIVITY ARE NOT RELATED 6-MONTHS AFTER ACL RECONSTRUCTION

Christopher Kuenze, PhD, ATC

Cira A/B

GRAFT CHOICE FOR ACL RECONSTRUCTION IN YOUNG ACTIVE PATIENTS – USE OF QUADRICEPS TENDON AUTOGRAFT INCREASED LIKELIHOOD OF MEETING RETURN TO PLAY CRITERIA AT 6 MONTHS POST SURGERY

Bonnie P. Gregory, MD

LATERAL ELBOW OVERUSE INJURIES IN PEDIATRIC FEMALE GYMNASTS: A COMPARISON OF RADIAL HEAD STRESS FRACTURES AND CAPITELLAR OCD

Charles W. Wyatt, MS, CPNP, RNFA

INCREASED PREVALENCE OF JUVENILE OSTEOCHONDritis DISSECANS IN PATIENTS WITH JUVENILE IDIOPATHIC ARTHRITIS

Gregory A. Schmale, MD

TROCHLEAR MORPHOLOGY DEVELOPMENT: STUDY OF NORMAL PEDIATRIC KNEE MRIS

Jennifer Beck, MD

BRAIN WHITE MATTER ALTERATIONS IN STRUCTURAL INTEGRITY AND CONNECTIVITY FOLLOWING A SPORTS-RELATED CONCUSSION: EVALUATION OF THE POTENTIAL AMELIORATING EFFECT OF A JUGULAR VEIN COMPRESSION COLLAR DEVICE

Jed A. Diekfuss, PhD

HIP ARTHROSCOPY VS. PHYSICAL THERAPY IN PATIENTS WITH FEMOROACETABULAR IMPINGEMENT: A SYSTEMATIC REVIEW AND META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS

John C. Clohisy, MD

PEDIATRIC ORTHOPEDIC RADIOGRAPH REDUCTION: A QUALITY IMPROVEMENT INITIATIVE

Sarah Lander, MD

ADOLESCENT POSTERIOR-SUPERIOR GLENOID LABRAL PATHOLOGY: DOES INVOLVEMENT OF THE BICEPS ANCHOR MAKE A DIFFERENCE?

Eric W. Edmonds, MD, FAOA

Friday, January 24, 2020

LOCATION

1:45-2:30pm

SCIENTIFIC PAPERS 6— EVALUATION OF CONCUSSION

Moderator: *Suraj Achar, MD*

- 1:45-1:52 RESEARCH UPDATE & LITERATURE HIGHLIGHTS
David Howell, PhD, ATC
- 1:53-1:58 USING MOVEMENT SCREENING TESTS AND BIOMECHANICAL ANALYSIS TO DIFFERENTIATE POST-CONCUSSION PEDIATRIC SOCCER ATHLETES FROM HEALTHY CONTROLS
Scott O. Burkhart, PsyD
- 1:59-2:04 IMPAIRED EYE TRACKING IS ASSOCIATED WITH SYMPTOMS BUT NOT DYNAMIC POSTURAL CONTROL IN ADOLESCENTS FOLLOWING CONCUSSION
Jessie R. Oldham, PhD
- 2:05-2:10 OCULOMOTOR FUNCTION IN ADOLESCENT ATHLETES FOLLOWING CONCUSSION
Tracy Zaslow, MD, FAAP, CAQSM
- 2:11-2:29 DISCUSSION

Solana E

1:45-2:30pm

SCIENTIFIC PAPERS 7— PREDICTIVE MODELING AND CLASSIFICATION SYSTEMS

Moderator: *Peter Fabricant, MD, MPH*

- 1:45-1:49 EMERGING CONCEPTS
Peter Fabricant, MD, MPH
- 1:50-1:55 INTEROBSERVER RELIABILITY OF A COMPREHENSIVE LATERAL DISCOID MENISCUS CLASSIFICATION SYSTEM: A MULTICENTER ARTHROSCOPIC VIDEO ANALYSIS STUDY
R. Jay Lee, MD
- 1:56-2:01 PEDIATRIC ELBOW COLLATERAL AND ANNULAR LIGAMENT ANATOMY: A CT-BASED CADAVERIC STUDY
Tyler J. Stavinocha, MD
- 2:02-2:07 A PRACTICAL PRE-OPERATIVE PREDICTIVE MODEL FOR DETERMINING HAMSTRING AUTOGRAFT SIZE FOR ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION IN CHILDREN AND ADOLESCENTS
John Schlechter, DO
- 2:08-2:13 PEDIATRIC REFERENCE ANATOMY FOR ANTEROLATERAL LIGAMENT RECONSTRUCTION— A CADAVERIC STUDY
Sahej Randhawa, BS
- 2:14-2:19 DEFINING TROCHLEAR DYSPLASIA VIA THE LATERAL TROCHLEAR INCLINATION ANGLE
James L. Pace, MD
- 2:20-2:29 DISCUSSION

Cira A/B

2:30-3:15pm

SCIENTIFIC PAPERS 8— FEMALE ATHLETE

Moderator: *Jane Chung, MD*

- 2:30-2:35 RESEARCH UPDATE & LITERATURE HIGHLIGHTS - FEMALE ATHLETE
Katie Rizzone, MD
- 2:36-2:41 RESEARCH UPDATE & LITERATURE HIGHLIGHTS - BONE STRESS
Eric Nussbaum, MEd, LAT, ATC
- 2:42-2:47 ALTERED BRAIN FUNCTIONAL CONNECTIVITY FOLLOWING A SEASON OF COMPETITIVE FEMALE HIGH SCHOOL SOCCER AND THE EFFECT OF A JUGULAR VEIN COMPRESSION COLLAR: A NETWORK-BASED STATISTICS ANALYSIS
Jonathan A. Dudley, PhD
- 2:48-2:53 ANKLE BRACE USE AND RISK OF ACUTE LOWER EXTREMITY INJURY AMONG FEMALE HIGH SCHOOL VOLLEYBALL PLAYERS
Stephanie Kliethermes, PhD
- 2:54-2:59 EARLY SPORTS SPECIALIZATION IN YOUNG FEMALE FIGURE SKATERS
Dai Sugimoto, PhD, ATC
- 3:00-3:14 DISCUSSION

Cira A/B

Friday, January 24, 2020

LOCATION

2:30-3:15pm	<p>SCIENTIFIC PAPERS 9– RADIOLOGY ADVANCING CLINICAL SPORTS MEDICINE Moderator: <i>Andrea Straccolini, MD</i></p> <p>2:30-2:37 RESEARCH UPDATE & LITERATURE HIGHLIGHTS <i>Patricia Delzell, MD</i></p> <p>2:38-2:43 MRI KNEE BONE AGE: A NOVEL SHORTHAND APPROACH TO REDUCE BONE AGE RADIOGRAPHS IN CHILDREN <i>Joshua T. Bram, BS</i></p> <p>2:44-2:49 IS OSGOOD-SCHLATTER DISEASE TRULY A BENIGN KNEE CONDITION? A PILOT STUDY DEMONSTRATING INCREASED POSTERIOR TIBIAL SLOPE <i>Daniel W. Green, MD</i></p> <p>2:50-2:55 CAN EOS IMAGING SUBSTITUTE TRADITIONAL AP PELVIS RADIOGRAPHS? A COMPARATIVE STUDY <i>Stephanie W. Mayer, MD</i></p> <p>2:56-3:01 FEASIBILITY AND RELIABILITY OF MUSCULOSKELETAL ULTRASOUND MEASUREMENT OF THE MEDIAL PATELLOFEMORAL LIGAMENT <i>Andrea Straccolini, MD</i></p> <p>3:02-3:07 ACL LENGTH IN PEDIATRIC POPULATION: AN MRI RETROSPECTIVE STUDY <i>Emily P. Tran, BA</i></p> <p>3:08-3:14 DISCUSSION</p>	Solana E
3:15-3:45pm	EXHIBIT AND POSTER VIEWING BREAK	Solana F-I
3:45-4:30pm	<p>SCIENTIFIC SESSION 10– RETURN TO PLAY CONSIDERATIONS Moderator: <i>Matt Milewski, MD</i></p> <p>3:45-3:52 RESEARCH UPDATE & LITERATURE HIGHLIGHTS <i>Paul Saluan, MD</i></p> <p>3:53-3:58 COMPARISON OF CLINICAL OUTCOMES BETWEEN INDIVIDUALS WITH MEDIAL PATELLOFEMORAL LIGAMENT RECONSTRUCTION AND ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION <i>Michael Shingles, DO</i></p> <p>3:59-4:04 ARTHROSCOPIC SHOULDER STABILIZATION IN HIGH SCHOOL FOOTBALL PLAYERS: RECURRENT INSTABILITY WITH RETURN TO CONTACT SPORT <i>Eric W. Edmonds, MD, FAOA</i></p> <p>4:05-4:10 6-MONTH RETURN TO SPORTS TESTING FOLLOWING ACL RECONSTRUCTION IN ADOLESCENTS WITH QUADRICEPS TENDON AUTOGRAFT VERSUS HAMSTRING AUTOGRAFT <i>Elizabeth S. Liotta, MBBS</i></p> <p>4:11-4:16 THE INCIDENCE OF SECOND ANTERIOR CRUCIATE LIGAMENT INJURY IN YOUNG ATHLETES IS NOT INFLUENCED BY TIME TO RETURN TO SPORT <i>Christin M. Zwolski, PT, DPT, OCS</i></p> <p>4:17-4:29 DISCUSSION</p>	Solana E

Friday, January 24, 2020

		<u>LOCATION</u>
4:30-5:15pm	<p>SCIENTIFIC SESSION 11– HEALTH DISPARITIES AND COST EFFECTIVE CARE Moderator: <i>JR Cruz, MD, MBA</i></p> <p>4:30-4:34 EMERGING CONCEPTS <i>JR Cruz, MD, MBA</i></p> <p>4:35-4:40 AMBULATORY SURGERY TRENDS IN PEDIATRIC ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION: WHERE’S IT HAPPENING AND HOW MUCH CAN WE SAVE? <i>Joshua T. Bram, BS</i></p> <p>4:41-4:46 HEALTH DISPARITIES IN ADHERENCE WITH PRESCRIBED REHABILITATION FOLLOWING SURGICAL TREATMENT OF KNEE INJURIES IN PEDIATRIC PATIENTS <i>Allan K. Metz, BS</i></p> <p>4:47-4:52 PEDIATRIC AND ADOLESCENT SHOULDER INSTABILITY: DOES INSURANCE STATUS PREDICT THE DEVELOPMENT OF BONY BANKART AND ENGAGING HILL-SACHS LESIONS? <i>Nirav K. Pandya, MD</i></p> <p>4:53-4:58 EPIDEMIOLOGY OF PEDIATRIC CARTILAGE RESTORATION PROCEDURES IN THE UNITED STATES: INSURANCE AND GEOGRAPHY PLAY A ROLE <i>Neeraj M. Patel, MD, MPH, MBS</i></p> <p>4:59-5:04 COST-EFFECTIVENESS FOR RETURN-TO-PLAY (RTP) PROGRAMS AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION <i>Peter D. Fabricant, MD, MPH</i></p> <p>5:05-5:14 DISCUSSION</p>	Solana E
5:20-6:20pm	<p>CONCURRENT INSTRUCTIONAL COURSES</p> <p>IC3: IMAGING FINDINGS OF COMMON SPORTS INJURIES Moderator: <i>Scott McKay, MD</i> Faculty: <i>Patricia B. Delzell, MD, Erica Schallert, MD, Siddharth Jadhav, MD</i> This is a case-based presentation of clinically-relevant imaging findings for common sports injuries of the elbow, ankle, and knee. Ultrasound, MRI, and XR will be featured. Discussion is encouraged.</p> <p>IC4: THE USE OF MOVEMENT ANALYSIS IN SPORTS MEDICINE: GCMAS MEETING HIGHLIGHTS Moderators: <i>Jason Rhodes, MD and Corinna Franklin, MD</i> Speakers: <i>Corinna Franklin, MD, Micah Garcia, Penny Head, PhD, Ashley Erdman, BS, MBA, Kirsten Tulchin-Francis, PhD</i> This session will present current uses of movement analysis within sports medicine with presentations from moderator Corinna Franklin on the use of movement analysis for return to sport readiness and then will have 4 of the top articles that were presented at the 2019 GCMAS conference representing different uses of movement analysis within the sports medicine field of study.</p>	Cira A/B Solana E
6:30-7:30pm	<p>NETWORKING RECEPTION</p>	Solana F-I

Saturday, January 25, 2020

		<u>LOCATION</u>
6:30am-6:30pm	REGISTRATION	Foyer
7:00-8:00am	BREAKFAST	Solana F-I
7:00-7:50am	CARING FOR THE TRANSGENDER ATHLETE <i>Corinna Franklin, MD, Kathryn Ackerman, MD, Cordelia W. Carter MD, Andrea Darby-Stewart, MD, Kristina Wilson, MD</i>	Cira A/B
8:00- 10:30am	GENERAL SESSION	Solana E
8:00-9:00am	<p>IC5: SPORTS MEDICINE RULES AND RECOMMENDATIONS: HOW DATA INFORMS POLICY <i>Javier Cárdenas, MD, Dawn Comstock, PhD, Tamara Valovich McLeod PhD, ATC, FNATA, Michael Koester, MD</i></p> <p>Sports medicine policy is often viewed as reactionary to public perception, a legal dispute, or a tragic event. In fact, sports medicine policy is heavily dependent on scientific research and data. Such policy is created at the high school, college, and professional levels. All of it is based on research and data presented to health care professionals that represent a multitude of sports medicine disciplines. The impact of sports medicine policies are also analyzed for impact and unintended consequences.</p> <p>The goal of this presentation is to provide clinicians and researchers a description of the role of sport medical advisory committees and an overview of how sports medicine policy is developed. Attendees will be provided with successful strategies they can utilize to impact sports medicine policies. Examples of policy development at state and national levels will be provided by the panelists. Specific information will include tips on: 1) Identifying a sports medicine problem 2) Gathering and analyzing the data of the identified problem, 3) Drafting policy, 4) Engaging stakeholders 5) Finalizing policy and 6) Reviewing data based on policy changes.</p>	
9:00-9:30am	<p>GAVEL EXCHANGE AND AWARDS <i>Andrew Gregory, MD and Mark Paterno, PT, PhD, MBA, SCS, ATC</i></p>	
9:30-10:30am	<p>ALLEN ANDERSON LECTURESHIP CAN BIG DATA HELP SAVE PEDIATRIC SPORTS? ONLY IF THE DATA IS GOOD. <i>Dawn Comstock, PhD</i></p> <div style="display: flex; align-items: flex-start;">  <div style="flex-grow: 1;"> <p>Dr. Comstock's research focus is the epidemiology of injury among the physically active, specifically the study of sports, recreation, and leisure activity-related injuries among children and adolescents as well as the life-long health benefits associated with an active childhood. Dr. Comstock believes that to combat the epidemic of obesity in our country children must be encouraged to get up off the couch and participate in physically active sports, recreation, and leisure activities. However, a certain endemic level of injury can be expected in any physical activity. The challenge is to monitor injury trends through surveillance; to investigate the etiology of preventable injuries; to develop, implement, and evaluate protective interventions; and to responsibly report epidemiologic findings of injury research while promoting a physically active lifestyle for children and adolescents.</p> <p>In 2014, Dr. Comstock was one of five experts <u>invited by the White House</u> to speak at the <u>Healthy Kids and Safe Sports Concussion Summit</u> to address the growing risk of concussions in adolescent sports. In 2017, she accepted an invitation to serve on the <u>Board of Scientific Counselors</u> for the CDC's National Center for Injury Prevention and Control (NCIPC). The board advises the Secretary of the Department of Health and Human Services, the Director of the CDC, and the Director of NCIPC about surveillance, basic epidemiologic research, intervention research, and implementation, dissemination, and evaluation of promising and evidence-based strategies for the prevention of injury and violence.</p> <p>After receiving a B.S. degree in microbiology from Colorado State University and a M.S. degree in epidemiology from the University of Iowa, Dr. Comstock obtained a PhD in Public Health Epidemiology from the University of California San Diego/San Diego State University. She has previously worked with the Iowa Department of Public Health in Des Moines, Iowa, with the Naval Health Research Center in Point Loma, Calif., with the Environmental Health Services Branch of the CDC's National Center for Environmental Health in Atlanta, and as an Epidemic Intelligence Service Officer assigned by the Centers for Disease Control and Prevention as a liaison to the Oklahoma State Department of Health Injury Prevention Service. Before joining the Colorado School of Public Health and the Pediatric Injury Prevention, Education, and Research (PIPER) program, Dr. Comstock was at Ohio State University and the Center for Injury Research and Policy at Nationwide Children's Hospital.</p> </div> </div>	

Saturday, January 25, 2020

		<u>LOCATION</u>
10:30-10:45am	EXHIBIT AND POSTER VIEWING BREAK	Solana F-I
10:45-11:20am	<p>SCIENTIFIC SESSION 12– ACL RECOVERY AND REHABILITATION Moderator: <i>Elliot Greenberg, PT, PhD</i></p> <p>10:45-10:50 RESEARCH UPDATE & LITERATURE HIGHLIGHTS - TIBIAL SPINE <i>Justin Mistovich, MD</i></p> <p>10:51-10:56 RESEARCH UPDATE & LITERATURE HIGHLIGHTS - REHABILITATION <i>Joe Molony, PT, MS, SCS, CSCS</i></p> <p>10:57-11:02 PATIENT REPORTED OUTCOMES ARE ASSOCIATED WITH ISOMETRIC STRENGTH DEFICITS EARLY AFTER ACL RECONSTRUCTION IN ADOLESCENTS <i>Adam P. Weaver, PT, DPT</i></p> <p>11:03-11:09 RECOVERY FOLLOWING ACL RECONSTRUCTION IN MALE VS. FEMALE ADOLESCENTS: A MATCHED, SEX-BASED COHORT ANALYSIS OF 543 PATIENTS <i>Kathleen Maguire, MD</i></p> <p>11:10-11:15 FEMORAL NERVE CATHETER IS ASSOCIATED WITH PERSISTENT STRENGTH DEFICITS AT 6 MONTHS FOLLOWING ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION IN PEDIATRIC PATIENTS <i>Harin B. Parikh, BS</i></p> <p>11:16-11:20 DISCUSSION</p>	Solana E
10:45-11:20am	<p>SCIENTIFIC SESSION 13– MENTAL HEALTH IN SPORT Moderator: <i>Melissa Christino, MD</i></p> <p>10:45-10:52 RESEARCH UPDATE & LITERATURE HIGHLIGHTS <i>Traci Snedden, PhD, RN, CPNP</i></p> <p>10:53-10:58 FEAR AVOIDANCE BELIEFS RELATED TO PROLONGED RECOVERY FROM PEDIATRIC SPORTS CONCUSSIONS <i>Jonathan A. Santana, DO</i></p> <p>10:59-11:04 CONTACT AND COLLISION SPORTS PARTICIPATION DURING ADOLESCENCE IS ASSOCIATED WITH REDUCED ANXIETY AND DEPRESSIVE SYMPTOMS <i>David R. Howell, PhD</i></p> <p>11:05-11:20 DISCUSSION</p>	Cira A/B
11:20-12:20pm	<p>PRISM RESEARCH INTEREST GROUP MEETINGS (Group 2)</p> <p>Hip Disorders Bone Stress Injury UCL/Medial Epicondyle Sports Specialization Female Athlete Patellofemoral Instability Rehabilitation Knee Multi-Ligament Injury</p>	<p>Cascade A Cascade B Cascade C Cascade D Cascade E Aurora B Aurora C Aurora D</p>
12:00-1:30pm	LUNCH	Solana F-I

Saturday, January 25, 2020

		<u>LOCATION</u>
12:30-1:30pm	<p>LUNCH AND LEARN SESSIONS 3-5</p> <p>3. MANAGEMENT OF THE MULTI-LIGAMENT INJURED KNEE FROM INJURY TO RETURN TO SPORT <i>Kevin Dale, MD, Cliff Willimon, MD, Jonathan Godin, MBA, MD, Crystal Perkins, MD</i></p> <p>4. SOCIAL MEDIA AND PEDIATRIC SPORT MEDICINE Moderator: <i>Jennifer Beck, MD</i> Speakers: <i>David Howell, PHD, ATC Caitlyn Mooney, MD, Mark Halstead, MD, Aaron Gray, MD</i></p> <p>5. ARTHREX INNOVATIONS: ADVANCEMENTS IN THE TREATMENT OF YOUTH SPORTS MEDICINE INJURIES <i>J. Lee Pace, MD, Paul M. Saluan, MD, Dan W. Green, MD, Carlos Uquillas, MD</i></p>	<p>Solana E</p> <p>Cira C</p> <p>Cira A/B</p>
1:30-2:15pm	<p>SCIENTIFIC SESSION 14– INJURY PREVENTION Moderator: <i>Charles Wyatt, MS, CPNP, RNFA</i></p> <p>1:30-1:37 RESEARCH UPDATE AND LITERATURE HIGHLIGHTS <i>Dai Sugimoto, AT, PhD</i></p> <p>1:38-1:43 THE EFFECTS OF INTERNAL JUGULAR VEIN COMPRESSION FOR PRESERVING WHITE MATTER INTEGRITY IN HIGH SCHOOL FOOTBALL PLAYERS COMPARISON OF HIGH VS LOW THRESHOLDS OF REPEATED HEAD IMPACT EXPOSURE <i>Kim Barber Foss, MS</i></p> <p>1:43-1:48 THE EFFECTIVENESS OF ONLINE ACL INJURY PREVENTION EDUCATION FOR SPORTS COACHES <i>James F. Russomano, Jr., MS, CSCS</i></p> <p>1:49-1:54 PITCH COUNTS IN YOUTH BASEBALL PLAYERS: A COMPARISON TO PITCH SMART GUIDELINES <i>Justin Greiner, MD</i></p> <p>1:55-2:00 INFLUENCE OF PREVENTIVE TRAINING PROGRAM FEEDBACK COMPLEXITY ON ATHLETE INJURY RISK <i>Hayley J. Root, PhD, MPH, ATC</i></p> <p>2:01-2:14 DISCUSSION</p>	<p>Solana E</p>
1:30-2:15pm	<p>SCIENTIFIC SESSION 15– PATELLOFEMORAL INSTABILITY Moderator: <i>Henry Ellis, MD</i></p> <p>1:30-1:37 RESEARCH UPDATE AND LITERATURE HIGHLIGHTS <i>Daniel Green, MD</i></p> <p>1:38-1:43 FEMORAL TUNNEL FIXATION FOR MEDIAL PATELLOFEMORAL LIGAMENT RECONSTRUCTION IN THE GROWING PATIENT IS SAFE FOR FUTURE GROWTH <i>Henry B. Ellis, MD</i></p> <p>1:43-1:48 INCIDENCE OF 2nd SURGERY AFTER MPFL RECONSTRUCTION AND SIMULTANEOUS OSTEOCHONDRAL FRACTURE FIXATION IN PEDIATRIC PATIENTS TREATED FOR PATELLAR DISLOCATION <i>Daniel W. Green, MD</i></p> <p>1:49-1:54 MPFL GRAFT TENSIONING TO TREAT PATELLAR INSTABILITY RELATED TO PATELLA ALTA: DYNAMIC SIMULATION <i>Travis Jones, MD</i></p> <p>1:55-2:00 OUTCOMES OF ARTHROSCOPIC LOOSE BODY MANAGEMENT IN PATELLA INSTABILITY: MEDIAL PATELLOFEMORAL LIGAMENT NEGLECT OR REPAIR VERSUS RECONSTRUCTION <i>Kristina Johnson, ATC, OPA-C</i></p> <p>2:01-2:14 DISCUSSION</p>	<p>Cira A/B</p>

Saturday, January 25, 2020

		<u>LOCATION</u>
2:15-2:50pm	<p>SCIENTIFIC SESSION 16-- OCD KNEE Moderator: <i>John Polousky, MD</i></p> <p>2:15-2:22 RESEARCH UPDATE AND LITERATURE HIGHLIGHTS <i>Jay Lee, MD</i></p> <p>2:23-2:28 OPEN OSTEOCHONDRAL AUTOGRAFT TRANSFER RESULTS IN MORE FREQUENT REOPERATION THAN OPEN ALLOGRAFT TRANSFER IN THE PEDIATRIC KNEE <i>Neeraj M. Patel, MD, MPH, MBS</i></p> <p>2:29-2:34 LATERAL FEMORAL CONDYLE OSTEOCHONDROITIS DISSECTIONS: DOES WEIGHTBEARING ZONE LOCATION PREDICT HEALING? <i>Sharon G. Huang, BA</i></p> <p>2:35-2:39 ARTICULAR CARTILAGE THICKNESS IN PEDIATRIC AND ADOLESCENT KNEES DECREASES WITH AGE AND SKELETAL MATURITY: IMPLICATIONS FOR OSTEOCHONDRAL GRAFTING PROCEDURES <i>Peter D. Fabricant, MD, MPH</i></p> <p>2:40-2:50 DISCUSSION</p> <p>2:50-3:00 CLOSING REMARKS</p>	Solana E
2:15-3:00pm	<p>SCIENTIFIC SESSION 17-- PAIN IN PEDIATRIC ATHLETES Moderator: <i>Kristina Wilson, MD</i></p> <p>2:15-2:22 RESEARCH UPDATE AND LITERATURE HIGHLIGHTS <i>Jim MacDonald, MD, MPH</i></p> <p>2:23-2:28 ASSOCIATION BETWEEN SADNESS AND SYMPTOM SEVERITY IN PEDIATRIC AND ADOLESCENT PATIENTS WITH HIP PAIN <i>K. John Wagner, III, BS</i></p> <p>2:29-2:34 A QUALITY IMPROVEMENT PROJECT TO REDUCE THE USE OF COMBINATION OPIOID/ ACETAMINOPHEN MEDICATIONS WITHIN A LARGE HEALTH SYSTEM <i>Sunny Trivedi, BS</i></p> <p>2:35-2:39 KINESIOPHOBIA IS RELATED TO BRAIN ACTIVITY FOR KNEE MOTOR CONTROL IN PEDIATRIC PATIENTS WITH PATELLOFEMORAL PAIN <i>Jed A. Diekfuss, PhD</i></p> <p>2:40-2:50 DISCUSSION</p> <p>2:50-3:00 CLOSING REMARKS</p>	Cira A/B
3:30-5:30pm	<p>BOARD OF DIRECTORS MEETING</p>	Cascade Boardroom

2020 Scientific Posters

Posters are located in Solana F-I. Presenting Authors are underlined.

TOP 9

1	PATIENT-REPORTED AND OBJECTIVE MEASURES OF PHYSICAL ACTIVITY ARE NOT RELATED 6-MONTHS AFTER ACL RECONSTRUCTION.	<u>Christopher Kuenze, PhD, ATC</u> ; <u>Caroline Lisee, M.Ed., ATC</u> ; <u>Ashley Triplett, MS</u> ; <u>Thomas Birchmeier, MS, ATC</u> ; <u>Michael W. Straus, PA-C, ATC</u> ; <u>Christopher L. Wilcox, DO</u> ; <u>Andrew Schorfhaar, DO</u> ; <u>Sheeba Joesph, MD</u> ; <u>Michael Shingles, DO</u>
2	GRAFT CHOICE FOR ACL RECONSTRUCTION IN YOUNG ACTIVE PATIENTS – USE OF QUADRICEPS TENDON AUTOGRAFT INCREASED LIKELIHOOD OF MEETING RETURN TO PLAY CRITERIA AT 6 MONTHS POST SURGERY	<u>Bonnie P. Gregory, M.D.</u> ; <u>John Magill, PT, DPT, FAAOMPT</u> ; <u>Heather Myers, PT, DPT</u> ; <u>Laura Pietrosimone, PT, PhD</u> ; <u>Daniel Le, BS</u> ; <u>Emily Reinke, PhD</u> ; <u>Jonathan Riboh, MD</u>
3	LATERAL ELBOW OVERUSE INJURIES IN PEDIATRIC FEMALE GYMNASTS: A COMPARISON OF RADIAL HEAD STRESS FRACTURES AND CAPITELLAR OCD	<u>Charles W. Wyatt, MS, CPNP, RNFA</u> ; <u>William C. Searls, BS</u> ; <u>Aaron J. Zynda, BS, CCRP</u> ; <u>Henry B. Ellis, Jr., MD</u> ; <u>Philip L. Wilson, MD</u>
4	INCREASED PREVALENCE OF JUVENILE OSTEOCHONDritis DISSECANS IN PATIENTS WITH JUVENILE IDIOPATHIC ARTHRITIS	<u>Andrew Hinkle, BS</u> ; <u>Celeste Quitiquit Dickason, MD</u> ; <u>Thomas Jinguji, MD</u> ; <u>Susan Shenoi, MBBS, MS</u> ; <u>Mahesh Thapa, MD</u> ; <u>Michael Saper, DO, ATC, CSCS</u> ; <u>Viviana Bompadre, PhD</u> ; <u>Gregory A. Schmale, MD</u>
5	TROCHLEAR MORPHOLOGY DEVELOPMENT: STUDY OF NORMAL PEDIATRIC KNEE MRIS	<u>Myra Trivellas, MD</u> ; <u>Benjamin Kelley, MD</u> ; <u>Nicole West, BS</u> ; <u>Nicholas J. Jackson, PhD</u> ; <u>Jennifer Beck, MD</u>
6	BRAIN WHITE MATTER ALTERATIONS IN STRUCTURAL INTEGRITY AND CONNECTIVITY FOLLOWING A SPORTS-RELATED CONCUSSION: EVALUATION OF THE POTENTIAL AMELIORATING EFFECT OF A JUGULAR VEIN COMPRESSION COLLAR DEVICE	<u>Jed A. Diekfuss, PhD</u> ; <u>Weihong Yuan, PhD</u> ; <u>Kim Barber Foss, MS</u> ; <u>Jonathan A. Dudley, PhD</u> ; <u>Christopher DiCesare, MS</u> ; <u>Kelsey Logan, MD</u> ; <u>James Leach, MD</u> ; <u>Gregory D. Myer, PhD</u>
7	HIP ARTHROSCOPY VS. PHYSICAL THERAPY IN PATIENTS WITH FEMOROACETABULAR IMPINGEMENT: A SYSTEMATIC REVIEW AND META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS	<u>Maria Schwabe, MPH</u> ; <u>Abby L. Cheng, MD</u> ; <u>Cecilia Pascual-Garrido</u> ; <u>Marcie Harris-Hayes, PT, DPT, MSCI</u> ; <u>Michael Harris, PhD</u> ; <u>Devyani Hunt, MD</u> ; <u>Heidi Prather, DO</u> ; <u><u>John C. Clohisy, MD</u></u> ; <u>Jeffrey J. Nepple, MD</u>
8	PEDIATRIC ORTHOPEDIC RADIOGRAPH REDUCTION: A QUALITY IMPROVEMENT INITIATIVE	<u><u>Sarah Lander, MD</u></u> ; <u>Julie Michels, MS</u> ; <u>Anne Brayer, MD</u> ; <u>Sarah Obudzinski, BS</u> ; <u>Taylor D'amore, BA</u> ; <u>Mitchel Chess, MD</u> ; <u>Derek Wakeman, MD</u> ; <u>P. Christopher Cook, MD</u> ; <u>James Sanders, MD</u>
9	ADOLESCENT POSTERIOR-SUPERIOR GLENOID LABRAL PATHOLOGY: DOES INVOLVEMENT OF THE BICEPS ANCHOR MAKE A DIFFERENCE?	<u>Cody H. Hansen, BS</u> ; <u>Alicia M. Asturias, BA</u> ; <u>Andrew Pennock, MD</u> ; <u><u>Eric W. Edmonds, MD, FAOA</u></u>

ACL

10	ISOKINETIC PERFORMANCE AND LIMB ASYMMETRY DIFFERENCES BETWEEN ADOLESCENT MALES AND FEMALES FOLLOWING QUADRICEPS TENDON – PATELLAR BONE AUTOGRAFT ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION	<u>Alexia G. Gagliardi, BA</u> ; <u>David R. Howell, PhD</u> ; <u>Susan K. Kanai, PT, OCS</u> ; <u>Jason Rhodes, MD</u> ; <u>Alex Tagawa, BS</u> ; <u>Jay Albright, MD</u>
11	ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION IN <=21 YEAR OLDS: PATELLAR VERSUS HAMSTRING TENDON AUTOGRAFTS.	<u>Brandon Tauberg, MD</u> ; <u>Ronen Sever</u> ; <u>Noah Kirschner</u> ; <u>Regina Hanstein, PhD</u> ; <u><u>Eric Fornari, MD</u></u>
12	THE CHALLENGES OF TREATING FEMALE SOCCER PLAYERS WITH ACL INJURIES: IS THERE A BEST GRAFT CHOICE?	<u>Elise Britt, MD</u> ; <u>Ryan J. Ouillette, BA</u> ; <u>Kristina Johnson, ATC, OPA-C</u> ; <u><u>Eric W. Edmonds, MD, FAOA</u></u> ; <u>Hank Chambers, MD</u> ; <u>Tracey Bastrom, MA</u> ; <u>Andrew Pennock, MD</u>
13	Prospective measures of intra-region brain regularity differentiates ACL injured and uninjured athletes	<u>Scott Bonnette, PhD</u> ; <u>Jed A. Diekfuss, PhD</u> ; <u>Dustin R. Grooms, PhD</u> ; <u>Gregory D. Myer, PhD</u>
14	INFLUENCE OF LOWER EXTREMITY STATIC ALIGNMENT ON DYNAMIC KNEE VALGUS IN ADOLESCENTS FOLLOWING ACL RECONSTRUCTION	<u>Curtis VandenBerg, MD</u> ; <u>Nicole Mueske, MS</u> ; <u>Oussama Abousamra, MD</u> ; <u>Daniel T. Feifer, MS</u> ; <u>Natalya Sarkisova, BS</u> ; <u>Mia J. Katzel, DPT</u> ; <u>James L. Pace, MD</u> ; <u>Tishya Wren, PhD</u>
15	EVALUATION OF SERUM RELAXIN CONCENTRATIONS AND KNEE VALGUS AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION	<u>Gabrielle Gilmer, BCh</u> ; <u>Michael Roberts, PhD</u> ; <u>Gretchen D. Oliver, PhD, FACSM, ATC</u>

2020 Scientific Posters

Posters are located in Solana F-I. Presenting Authors are underlined.

16	ACL R GRAFT STRAND NUMBER: LONG-TERM FOLLOW-UP ON 400 PATIENTS	<u>Julien T. Aoyama, BA</u> ; <u>Joshua T. Bram, BS</u> ; <u>J. Todd Lawrence, MD PhD</u> ; <u>Theodore J. Ganley, MD</u>
17	THE EFFECT OF AGE AND CONCOMITANT SURGERY ON STRENGTH IN ADOLESCENT ATHLETES WITH PRIMARY QUADRICEPS TENDON ACL RECONSTRUCTION	<u>Sarah E. Reinking, PT, DPT, SCS</u> ; <u>Kaitlyn Flynn, PT, DPT, SCS</u> ; <u>Alexia G. Gagliardi, BA</u> ; <u>Cassidy Hallagin, PT, DPT, SCS</u> ; <u>Melissa N. Randall, PT, DPT, SCS</u> ; <u>Susan K. Kanai, PT, OCS</u> ; <u>Jay Albright, MD</u> ; <u>David R. Howell, PhD</u>
18	COMPARISON OF CONTINUOUS ADDUCTOR CANAL AND FEMORAL NERVE BLOCKS FOR ANALGESIA AND SPORTS READINESS AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION IN ADOLESCENT PATIENTS	<u>Erica Holland, MD</u> ; <u>Robin Robbins, MD</u> ; <u>Daniel K. Low, MD</u> ; <u>Adrian T. Bosenberg, MB ChB, FFA(SA)</u> ; <u>Viviana Bompadre, PhD</u> ; <u>Gregory A. Schmale, MD</u>
19	6- VS 9-MONTH RETURN TO SPORT TESTING RESULTS AFTER ACL RECONSTRUCTION WITH QUADRICEPS AUTOGRAFT IN ADOLESCENT PATIENTS	<u>Michael Saper, DO, ATC, CSCS</u>
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21	CLASSIFICATION OF ACL TEARS IN THE PEDIATRIC AND ADOLESCENT POPULATION	<u>Indranil Kushare, MD</u> ; <u>Kevin Klingele, MD</u> ; <u>Matthew C. Beran, MD</u> ; <u>Elsayed Ettia, MD</u> ; <u>Ahmed Elabd, MD</u> ; <u>Ifeoma Inneh, MPH</u> ; <u>Scott McKay, MD</u>

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22	MICROENVIRONMENTAL INFLUENCES ON ARTICULAR CHONDROCYTE DIFFERENTIATION	<u>Michael Chau, MD, PhD</u> ; <u>Ferenc Toth, DVM, PhD</u> ; <u>Ameya Bendre, PhD</u> ; <u>Alexandra Armstrong, DVM</u> ; <u>Jeffrey Macalena, MD</u> ; <u>Marc Tompkins, MD</u> ; <u>Denis Clohisy, MD</u> ; <u>Ola Nilsson, MD, PhD</u> ; <u>Cathy S. Carlson, DVM PhD</u>
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23	DUAL-TASK BALANCE CONTROL IN ADOLESCENT ATHLETES FOLLOWING CONCUSSION	<u>Tracy Zaslow, MD FAAP CAQSM</u> ; <u>Camille Burton, Diploma</u> ; <u>Nicole Mueske, MS</u> ; <u>Adriana S. Conrad-Forrest, MS</u> ; <u>Bianca Edison, MD MS FAAP</u> ; <u>Tishya Wren, PhD</u>
24	AN ASSESSMENT OF CLINICAL EFFICACY OF HYPOTHERMIC THERAPY FOLLOWING MILD TRAUMATIC BRAIN INJURY IN THE ADOLESCENT ATHLETE AS COMPARED TO AN UNTREATED ACTIVE CONTROL POPULATION	<u>Joseph Congeni, MD</u> ; <u>Tamara Murray, APRN, CNP</u> ; <u>John F. Zak, MD</u> ; <u>Peyton Kline, BSPH, CCRP</u> ; <u>Danielle Morgan, MACPR, MLS, CCRP</u> ; <u>Neil McNinch, MS, RN, PSTAT</u>
25	THE UTILITY AND VALIDATION OF THE FREQUENCY OF CONCUSSION SYMPTOMS (FOCS) QUESTIONNAIRE	<u>Christine Ellis, APRN, CPNP-PC</u> ; <u>Scott O. Burkhart, PsyD</u>
26	TRENDS IN US HIGH SCHOOL AND CLUB CHEER PRACTICE CONCUSSION REPORTING FROM 2012-2017	<u>Scott O. Burkhart, PsyD</u>
27	THE EFFECT OF A BODY CHECKING RULE CHANGE ON HEAD IMPACT BIOMECHANICS IN BANTAM ICE HOCKEY ATHLETES	<u>Patricia R. Combs, MEd, ATC</u> ; <u>Cassie B. Ford, PhD</u> ; <u>Elizabeth Teel, PhD</u> ; <u>Erin B. Wasserman, PhD</u> ; <u>Michael J. Cools, MD</u> ; <u>Jason Mihalik, PhD, ATC</u>
28	ADOLESCENTS REPORT SLEEP QUALITY IMPAIRMENTS ACUTELY POST-CONCUSSION	<u>Julie C. Wilson, MD</u> ; <u>Michael W. Kirkwood, PhD</u> ; <u>Aaron Provance, MD</u> ; <u>Gregory A. Walker, MD</u> ; <u>Pamela E. Wilson, MD</u> ; <u>David R. Howell, PhD</u>
29	FUNCTIONAL NEUROCOGNITIVE DEFICITS AND CORTICAL EVOKED POTENTIALS IN PEDIATRIC PATIENTS WITH PROLONGED POST CONCUSSIVE SYMPTOMS	<u>Mo Mortazavi, MD</u> ; <u>David Oakley, PhD</u> ; <u>Jonathan Minor, MD</u> ; <u>Prem Kumar Thirunagari, pre med</u> ; <u>Nasser Koucheiki, MS4</u> ; <u>Nitin Prabhaker, MD</u>
30	A NECK STRENGTH TRAINING PROTOCOL IN HIGH SCHOOL FOOTBALL PLAYERS FOR CONCUSSION RISK REDUCTION	<u>Torsten J. Rotto, BA</u> ; <u>Emily Kraus, MD</u> ; <u>Michael Fredericson</u>
31	CAN NEAR POINT CONVERGENCE IN PEDIATRIC CONCUSSION PATIENTS PREDICT STUDENTS' SUCCESSFUL RETURN TO LEARNING?	<u>Katelyn Paulsen, BFA</u> ; <u>Mo Mortazavi, MD</u> ; <u>Hirsch Handmaker, MD</u> ; <u>Hector Rierio, PhD</u>

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33	SYMPTOM PROFILES AND BALANCE CONTROL AFTER CONCUSSION AMONG FEMALE YOUTH ARTISTIC ATHLETES	<u>Emily A. Sweeney, MD</u> ; <u>Julie C. Wilson, MD</u> ; <u>Morgan N. Potter, SPT</u> ; <u>Katherine S. Dahab, MD</u> ; <u>Keri L. Denay, MD, FACSM</u> ; <u>David R. Howell, PhD</u>
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36	HIGH SCHOOL STUDENT-ATHLETES' AWARENESS OF CONCUSSION EDUCATION MAY DIFFER BY AGE	<u>Regina O. Kostyun, MEd, ATC</u> ; <u>David Wang</u> ; <u>Matthew J. Solomito, PhD</u>
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49	DEFINING THE BORDERLINE HIP: HIGH VARIABILITY IN ACETABULAR COVERAGE AND FEMORAL DEFORMITY	<u>Elizabeth A. Graesser, BS</u> ; <u>Maria Schwabe, MPHS</u> ; <u>Cecilia Pascual-Garrido</u> ; <u>Jeffrey J. Nepple, MD</u> ; <u>John C. Clohisy, MD</u>

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52	SHOULD WE FEAR THE BORDERLINE DYSPLASTIC HIP?: EXTERNAL VALIDATION OF THE FEAR INDEX IN THE SETTING OF BORDERLINE ACETABULAR DYSPLASIA	<u>Maria Schwabe, MPH</u> ; <u>John C. Clohisy, MD</u> ; <u>Cecilia Pascual-Garrido</u> ; <u>Elizabeth A. Graesser, BS</u> ; <u>Jeffrey J. Nepple, MD</u>

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80	ASSOCIATION BETWEEN INJURY AND SPORTS SPECIALIZATION AMONG FEMALE HIGH SCHOOL VOLLEYBALL PLAYERS	Kevin M. Biese, MA, ATC; Timothy A. McGuine, PhD ATC; Stephanie Kliethermes, PhD; David Bell, PhD, ATC; Andrew Watson, MD, MS; Alison Brooks, MD, MPH; Eric G. Post, PhD, ATC; <u>Pamela Lang, MD</u>
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82	FAMILY AFFLUENCE RELATIONSHIP TO SPORTS SPECIALIZATION IN YOUTH ATHLETES	<u>Gregory A. Walker, MD</u> ; Aubrey Armento, MD; Katherine S. Dahab, MD; Aaron Provance, MD; Julie C. Wilson, MD; David R. Howell, PhD
83	PREVALENCE OF OVER THE COUNTER PAIN MEDICATION USE AMONG HIGH SCHOOL VOLLEYBALL PLAYERS	<u>Pamela Lang, MD</u> ; Timothy A. McGuine, PhD ATC; Mack Lianna, BS; Kevin M. Biese, MA, ATC; David Bell, PhD, ATC; Andrew Watson, MD, MS; Alison Brooks, MD, MPH; Eric G. Post, PhD, ATC; Stephanie Kliethermes, PhD
84	SELF-REPORTED PHYSICAL ACTIVITY IN SPECIALIZED AND SPECIALIZED YOUTH	<u>Julie Young, MA</u> ; Amy E. Valasek, MD, MSc; James Onate

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85	YOUTH KICKER'S KNEE: LATERAL DISTAL FEMORAL HEMIPHYSEAL ARREST SECONDARY TO CHRONIC REPETITIVE MICROTRAUMA	Michael J. Dempewolf, DO; Kevin Kwan, BS; Benjamin Sherman, DO; <u>John A. Schlechter, DO</u>
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2020 Scientific Posters

Posters are located in Solana F-I. Presenting Authors are underlined.

TIBIAL SPINE

86	RISK FACTORS FOR ARTHROFIBROSIS IN TIBIAL SPINE FRACTURES: A NATIONAL 10-SITE MULTICENTER STUDY	<u>Joshua T. Bram, BS</u> ; <u>Julien T. Aoyama, BA</u> ; <u>R. Justin Mistovich, MD</u> ; <u>Yi-Meng Yen, MD PhD</u> ; <u>Henry B. Ellis, Jr., MD</u> ; <u>R. Jay Lee, MD</u> ; <u>Peter D. Fabricant, MD MPH</u> ; <u>Daniel W. Green, MD</u> ; <u>Aristides I. Cruz, Jr., MD, MBA</u> ; <u>Scott McKay, MD</u> ; <u>Gregory A. Schmale, MD</u> ; <u>Theodore J. Ganley, MD</u>
87	RE-TRAINING IS INEFFECTIVE IN IMPROVING RELIABILITY OF TIBIAL SPINE MEASUREMENTS AND CLASSIFICATION	<u>Henry B. Ellis, Jr., MD</u> ; <u>Aaron J. Zynda, BS, CCRP</u> ; <u>Aristides I. Cruz, Jr., MD, MBA</u> ; <u>Brant Sachleben, MD</u> ; <u>Catherine Sargent, MD</u> ; <u>Daniel W. Green, MD</u> ; <u>Drew E. Warnick, MD</u> ; <u>Gregory A. Schmale, MD</u> ; <u>Jason E. Jagodzinski, MD</u> ; <u>Jason Rhodes, MD</u> ; <u>R. Justin Mistovich, MD</u> ; <u>Peter D. Fabricant, MD MPH</u> ; <u>Scott McKay, MD</u> ; <u>Yi-Meng Yen, MD PhD</u> ; <u>Theodore J. Ganley, MD</u>
88	CLOSED REDUCTION IN THE TREATMENT OF DISPLACED TIBIAL SPINE FRACTURES: REVISITING A LOST ART	<u>Henry B. Ellis, Jr., MD</u> ; <u>Morgan Adkins, BS</u> ; <u>Marilyn Elliott, BS</u> ; <u>Sharon G. Huang, BA</u> ; <u>Charles W. Wyatt, MS, CPNP, RNFA</u> ; <u>Philip L. Wilson, MD</u>

ULTRASOUND

89	LONG TERM QUALITY OF LIFE HEALTH OUTCOMES IN PATIENTS RECEIVING ULTRASOUND GUIDED INJECTIONS: PRELIMINARY ANALYSIS	<u>Andrea Stracciolini, MD</u> ; <u>Greggory Kobelski, BS</u> ; <u>Maxwell H. McKee-Proctor, BA</u> ; <u>Yi-Meng Yen, MD PhD</u> ; <u>Pierre d'Hemecourt, MD</u> ; <u>Dai Sugimoto, PhD, ATC</u>
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2020 SCIENTIFIC ePOSTERS

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ACL

1	RE-INJURY RATES, RETURN TO PLAY STATUS AND PATIENT REPORTED OUTCOMES AT A MINIMUM OF 2-YEARS POST ACL RECONSTRUCTION IN ADOLESCENT ATHLETES	<i>Lilah Fones, BA; Regina O. Kostyun, MEd, ATC; J. Lee Pace, MD</i>
2	RESOLUTION OF PAIN AND PREDICTORS OF POST-OPERATIVE OPIOID USE AFTER SCAFFOLD-ENHANCED ACL REPAIR AND ACL RECONSTRUCTION	<i>Samuel C. Barnett, MD; Martha Murray; Shanshan Liu, MPH; Lyle J. Micheli, MD</i>
3	A COMPUTATIONAL KNEE MODEL FOR PRODUCING FAILURE STRAIN IN THE ACL: A POSSIBLE MECHANISM FOR NON-CONTACT ACL RUPTURE	<i>Trent M. Guess, PhD; James Cook, DVM, PhD; Brad W. Willis, PT, MPT; Richard Ma, MD; Dave Echelmeyer, PT, MPT; Aaron D. Gray, MD</i>
4	ALL ACLS ARE NOT THE SAME: SPORT SPECIFIC DIFFERENCES IN PRESENTATION AND RESPONSE SURROUNDING PEDIATRIC AND ADOLESCENT ACL RECONSTRUCTION	<i>James D. Munoz, Bachelor of Science; K. John Wagner, III, BS; Meagan J. Sabatino, BA; Chan-Hee Jo, PhD; Caroline P. Gekas, BA; Philip L. Wilson, MD; Henry B. Ellis, Jr., MD</i>
5	BIOMECHANICAL ASYMMETRIES DURING DROP JUMP LANDING AND TAKEOFF IN ADOLESCENT ATHLETES FOLLOWING RECENT ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION	<i>Ryan Kelln, MD; Eva Ciccodicola, DPT; Nicole Mueske, MS; Mia J. Katzel, DPT; Curtis VandenBerg, MD; James L. Pace, MD; Tishya Wren, PhD</i>
6	FUNCTIONAL RECOVERY AND TIME FOR RETURN TO BALLISTICS AND RETURN TO SPORT TESTING AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION UTILIZING QUADRICEPS TENDON PATELLAR BONE AUTOGRAFT IN THE ADOLESCENT	<i>Leslie V. Schein, PT, DPT, OCS</i>
7	ARE LIMB SYMMETRY INDICES A SENSITIVE TOOL FOR MEASURING FUNCTIONAL KNEE JOINT CAPACITY IN ADOLESCENTS WITH ACL INJURIES?	<i>Michael J. Del Bel, MSc; Daniel L. Benoit, PhD; Ken Kontio, MD; Louis Lawton, MD; Sasha Carsen, MD</i>
8	PERIOPERATIVE PAIN MANAGEMENT PRACTICES VARY ACROSS TIME AND SETTING FOR PEDIATRIC ACL-RELATED SURGERY- NATIONAL TRENDS FROM THE PHIS DATABASE	<i>Nathan D. Markiewitz, MA; Ishaan Swarup, MD; Divya Talwar, PhD, MPH; Wallis T. Muhly, MD; Lawrence Wells, MD; Brendan A. Williams, MD</i>
9	UTILITY OF A PHYSICAL THERAPY CLEARANCE TEST IN PEDIATRIC ACL RECONSTRUCTION	<i>Jonathan H. Koenig, MD; Eric W. Edmonds, MD, FAOA; Hank Chambers, MD; Kelly Boutelle, BS; Andrew Pennock, MD</i>
10	RETURN TO SPORT STATUS AND PATIENT REPORTED OUTCOMES AT A MINIMUM OF 2-YEARS POST ACL RECONSTRUCTION IN ADOLESCENT ATHLETES	<i>Lilah Fones, BA; Regina O. Kostyun, MEd, ATC; J. Lee Pace, MD</i>

BASIC SCIENCE

11	A NOVEL CROSS-LINKABLE, MICROFIBER-LIKE COLLAGEN SCAFFOLD SUPPORTS CHONDROCYTE DIFFERENTIATION AND GROWTH	<i>J. Todd Lawrence, MD PhD</i>
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CONCUSSION

12	YOUTH SPORT PARENT/GUARDIAN CONCUSSION-RELATED KNOWLEDGE AND ATTITUDES: IMPLICATIONS FOR GENDER-SPECIFIC CONCUSSION EDUCATION	<i>Johna Register-Mihalik, PhD, ATC; Avinash Chandran, PhD; Aliza Nedimyer, MA, ATC; Melissa Kay, PhD, LAT, ATC; Paula Gildner, MPH; Zachary Kerr, PhD, MPH</i>
13	INCIDENCE AND PATTERNS OF MENSTRUAL IRREGULARITIES IN PEDIATRIC PATIENTS AFTER CONCUSSION	<i>Emily Bateman, completing B.S.; Leslie Streeter, NP-C; Mo Mortazavi, MD; Jonathan Minor, MD; Hirsch Handmaker, MD</i>
14	ALTERATIONS IN STRUCTURAL AND FUNCTIONAL CONNECTIVITY IN FEMALE HIGH SCHOOL ATHLETES AFTER A COMPETITIVE SOCCER SEASON: A GRAPH THEORETICAL ANALYSIS OF BRAIN NETWORK INTEGRITY AND THE AMELIORATING EFFECT OF A NECK COLLAR DEVICE	<i>Jonathan A. Dudley, PhD; Weihong Yuan, PhD; Jed A. Diekfuss, PhD; Kim Barber Foss, MS; Christopher DiCesare, MS; Kelsey Logan, MD; James Leach, MD; Gregory D. Myer, PhD</i>
15	USING THE HEALTH BELIEF MODEL TO PREDICT CONCUSSION REPORTING INTENTIONS AND BEHAVIOR	<i>Michelle L. Weber, PhD, ATC; Jennifer Gay, PhD; Phillip Tomporowski, PhD, ATC; Laura Bierema, EdD; Cailee E. Welch Bacon, PhD, ATC; Julianne D. Schmidt, PhD, ATC</i>

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16	THE IMPACT OF RULE CHANGES AND LEGISLATION ON THE INCIDENCE OF CONCUSSION IN HIGH SCHOOL FOOTBALL IN THE STATE OF NEW JERSEY	<i>Eric D. Nussbaum, MEd, LAT, ATC</i>
17	CONCUSSION MANAGEMENT PRACTICES AND SOCIOECONOMIC DISPARITIES: AN EXAMINATION OF BASELINE TESTING	<i>Courtney W. Hess, MS; Linda Brown, MPH; Julia Campbell, MPH; Victoria Wood, BS; Jonathan Olshaker, MD; Alcy Torres, MD; Jonathan Howland, PhD</i>
18	NEAR POINT CONVERGENCE IN PEDIATRIC PATIENTS AS A CLINICAL PREDICTOR FOR EXERCISE TOLERANCE AND PROGRESSION THROUGH THE 5 STEP ACTIVE REHAB PROTOCOL	<i>Tyler Marx, BS; Mo Mortazavi, MD; Daniel K. Hekmatian, BS; Jonathan Minor, MD; Hirsch Handmaker, MD</i>
19	ADOLESCENT ATHLETES WITH POSITIVE RISK FACTORS REPORT A GREATER CONCUSSION HISTORY AT BASELINE	<i>Ryan N. Moran, PhD</i>

EPIDEMIOLOGY

20	PEDIATRIC GYMNASTIC INJURIES: SEX AND AGE-BASED INJURIES OVER THE LAST 10 YEARS	<i>William C. Searls, BS; Aaron J. Zynda, BS, CCRP; Jane Chung, MD; Shane M. Miller, MD; Henry B. Ellis, Jr., MD; Philip L. Wilson, MD</i>
21	FROM THE BIRTHPLACE OF BASEBALL; ACUTE INJURIES AND INCIDENCE AT AN ELITE YOUTH BASEBALL TOURNAMENT	<i>Andrew Powers, MD</i>
22	MATCH AND TRAINING INJURY RATES AND MECHANISMS IN HIGH SCHOOL RUGBY	<i>Amanda M. Black, CAT(C), PhD; Stacy Sick, BSc, CAT(C); Paul H. Eliason, MSc; Lauren N. Miutz, MS; Brent E. Hagel, PhD; Luz Palacios Derflingher, PhD; Kathryn Schneider, PT, PhD; Carolyn A. Emery, PT, PhD</i>
23	THE EPIDEMIOLOGY OF MUSCULOSKELETAL INJURIES AMONG ELITE PLAYERS IN THE NATIONAL WOMEN'S HOCKEY LEAGUE	<i>Zabrina Shabin, MD; Omar Behary, MD; Darryl Whitney, MD; Guillem Lomas, MD; Cordelia W. Carter, MD</i>

FEMALE ATHLETE

24	A PROSPECTIVE STUDY OF TIME LOSS AND NON-TIME LOSS INJURIES SUSTAINED BY FEMALE HIGH SCHOOL VOLLEYBALL PLAYERS	<i>Timothy A. McGuine, PhD ATC; Stephanie Kliethermes, PhD; Kevin M. Biese, MA, ATC; David Bell, PhD, ATC; Andrew Watson, MD, MS; Alison Brooks, MD, MPH; Eric G. Post, PhD, ATC; Pamela Lang, MD</i>
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FOOT/ANKLE

25	BIOMARKER EXPRESSION IN POST-TRAUMATIC OSTEOARTHRITIS (PTOA) THROUGH THE UTILIZATION OF A SPRING-LOADED IMPACTION DEVICE	<i>Christopher J. Murdock, BSE</i>
26	LISFRANC INJURIES IN THE PEDIATRIC POPULATION: A CASE SERIES.	<i>Indranil Kushare, MD; Nicole Wunderlich, M.S.; Ahmed Elabd, MD; Elsayed Ettia, MD</i>
27	TREATMENT COMPLICATIONS OF ANKLE SPRAINS AND SALTER-HARRIS 1 DISTAL FIBULA FRACTURES: A POSNA SURVEY	<i>Jennifer Beck, MD; Nicole West, BS; Meagan J. Sabatino, BA; Henry B. Ellis, Jr., MD</i>
28	SIGNIFICANT VARIABILITY EXIST IN TREATMENT OF PEDIATRIC LATERAL ANKLE INJURIES	<i>Jennifer Beck, MD; Nicole West, BS; Meagan J. Sabatino, BA; Chan-Hee Jo, PhD; Henry B. Ellis, Jr., MD</i>

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29	DELAYS IN OBTAINING KNEE MRI IN PEDIATRIC SPORTS MEDICINE: PRIVATE VS GOVERNMENT BASED INSURANCE	<i>Jennifer Beck, MD; Nicole West, BS; Kylie Shaw, BA; Lumi Huang, MS; Richard E. Bowen, MD</i>
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HIP DISORDERS

30	INCIDENCE OF SIGNS OF FEMOROACETABULAR IMPINGEMENT IN ADOLESCENTS WITH DEVELOPMENTAL DYSPLASIA OF THE HIP	<i>Jenna Powell, BS; Tyler R. Freeman, MD; Tobias R. Fauser, BS; Derek Axibal; Robin H. Dunn, MD; Courtney O'Donnell, MD; Stephanie W. Mayer, MD</i>
31	LOWER EXTREMITY SAGITTAL PLANE MOTION DURING DIFFERENT SQUAT TYPES IN PATIENTS WITH FEMOROACETABULAR IMPINGEMENT	<i>Alex Loewen, MS; Kirsten Tulchin-Francis, PhD; Henry B. Ellis, Jr., MD</i>

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32	MIDTERM OUTCOMES OF CONCURRENT HIP ARTHROSCOPY AND PERIACETABULAR OSTEOATOMY FOR THE TREATMENT OF HIP DYSPLASIA WITH ASSOCIATED INTRA-ARTICULAR PATHOLOGY	<i>Adam I. Edelstein, MD; Jeffrey J. Nepple, MD; Wahid Abu-Amer, MD; Perry Schoenecker; John C. Clohisy, MD</i>
33	OUTCOMES OF OSTEONECROSIS OF THE FEMORAL HEAD IN SICKLE CELL DISEASE (SCD)	<i>Adele Heib, BS; Irene Chern, BS; Vanessa Charubhumi, MD; Regina Hanstein, PhD; Eric Fornari, MD</i>
34	OUTCOMES OF OSTEONECROSIS OF THE FEMORAL HEAD IN CHILDREN AND ADOLESCENTS	<i>Irene Chern, BS; Adele Heib, BS; Vanessa Charubhumi, MD; Regina Hanstein, PhD; Eric Fornari, MD</i>

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35	FACTORS OF RESILIENCE IN COLLEGIATE ATHLETES: A CROSS-SECTIONAL STUDY	<i>Katherine Rizzone, MD, MPH; Jorie Freitag, BS; Gwendolyn Haffenden, BS; Molly McCann, MS PhD</i>
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36	ASSESSMENT OF ATRAUMATIC KNEE SWELLING AND MENISCAL PATHOLOGY IN THE SETTING OF LYME ARTHRITIS: DEVELOPMENT OF DIAGNOSTIC AND TREATMENT GUIDELINES	<i>Alexander Volpi, MD; Elizabeth S. Liotta, MBBS; Matthew D. Milewski, MD; Benton E. Heyworth, MD</i>
37	LONG TERM MINIMUM 15 YEAR FOLLOW UP AFTER DISCOID LATERAL MENISCUS PRESERVATION SURGERY	<i>Laura Lins, MPH, ATC; Brian W. Yang, BA; Saritha Sankarankutty, MBBS, MPH; Frances Tepolt, MD; Mininder S. Kocher, MD MPH</i>

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38	RELATIONSHIP BETWEEN SUICIDAL IDEATIONS AND LENGTH OF TIME AWAY FROM SPORT IN THE ADOLESCENT ATHLETE	<i>Angela C. Vanderpool, MSN, RN, APRN; Heather Barnes, APRN; Kevin Latz, MD</i>
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MOTION ANALYSIS

39	THE ASSOCIATION BETWEEN QUANTITY OF PHYSICAL ACTIVITY, QUALITY OF MOTION, AND SPORTS SPECIALIZATION	<i>Madison R. Heath, BS; Joseph Janosky, MS, PT, ATC; Angelo Pegno, BS; Jonathan M. Schachne, BA; Peter D. Fabricant, MD MPH</i>
40	HIGH VARIABILITY IN KINEMATICS EXISTS IN HEALTHY ADOLESCENT MALE AND FEMALE ATHLETES: EVALUATION WITH AN IMU-BASED CAMERALESS MOTION ANALYSIS SYSTEM	<i>Jeffrey J. Nepple, MD</i>

OCD KNEE

41	THE ASSOCIATION BETWEEN MEDIAL MENISCUS EXTRUSION AND LESION LOCATION OF OSTEOCHONDROITIS DISSECANS OF THE KNEE	<i>Masakazu Ishikawa, M.D., Ph.D.; Goki Kamei, M.D., Ph.D.; Yoshiko Shirakawa, MD; Takenori Omoto, M.D.; Toshiya Kano, M.D.; Kyohei Nakata, M.D.; Akinori Nekomoto, M.D.; Atsuo Nakamae, M.D., Ph.D.; Nobuo Adachi, M.D., Ph.D.</i>
42	PEDIATRIC KNEE OSTEOCHONDROITIS DISSECANS: A SYSTEMATIC REVIEW COMPARING CONSERVATIVE TREATMENT AND SURGICAL INDICATIONS	<i>Sami Chergui, Bachelor's degree; Antoine Denis, Bachelor's degree; James Meterissian, Bachelor's degree; Thierry Pauyo</i>
43	NATIONWIDE TRENDS IN JUVENILE OSTEOCHONDROITIS DISSECANS SURGERIES: AGE PREDICTS NEED FOR INCREASED INTERVENTIONS	<i>David J. Isaacs, BA (c); Thaddeus Woodard, BS; Daniel Weltsch, MD; Divya Talwar, PhD, MPH; J. Todd Lawrence, MD PhD</i>

OUTCOME MEASURES

44	THE PERFORMANCE OF PROMIS COMPARED TO LEGACY IN THE ADOLESCENT HIP POPULATION	<i>Wahid Abu-Amer, MD; Cecilia Pascual-Garrido; John C. Clohisy, MD; Jeffrey J. Nepple, MD</i>
45	NO CORRELATION BETWEEN PEDI-FABS AND PEDI-CHAMP® AGILITY TEST IN HEALTHY INDIVIDUALS 5 TO 24 YRS OF AGE	<i>Kirsten Tulchin-Francis, PhD; Anthony Anderson, MS; Wilshaw Stevens, BS; Kelly Jeans, MS; Henry B. Ellis, Jr., MD</i>

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46	CORRELATION OF PATIENT-REPORTED OUTCOMES MANAGEMENT INFORMATION SYSTEM WITH LEGACY QUESTIONNAIRES IN PEDIATRIC PATIENTS WITH SPINAL ASYMMETRY AND SPINAL DEFORMITY	Annie Yau, BA; Madison R. Heath, BS; Peter D. Fabricant, MD MPH
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PARALYMPIC

47	BARRIERS TO ADAPTIVE SPORT PARTICIPATION IN CHILDREN AND ADOLESCENTS WITH CEREBRAL PALSY	Wendy Novick, DPT
48	PERFORMANCE PROGRESSION FOR A COMPETITIVE ATHLETE WITH ACHONDROPLASIA: A CASE STUDY	Taylor T. Elizondo, MS; David Greig, MKH; Justin Ulbright, MS; Teresa Skinner, OTR/L

PATELLOFEMORAL INSTABILITY

49	RISK FACTORS FOR PATELLAR INSTABILITY USING A QUANTITATIVE ANALYSIS OF TROCHLEAR DYSPLASIA	Jon Hedgecock, MD; Christopher Cheng, BS; Matthew J. Solomito, PhD; James L. Pace, MD
50	QUADRICEPS LENGTHENING FOR OBLIGATORY AND FIXED PATELLAR DISLOCATIONS: A REVIEW OF 22 KNEES	Sreetha Sidharthan, BS; Lindsay M. Schlichte, MS; Daniel W. Green, MD
51	PATELLAR HEIGHT COMPARISON BETWEEN KNEES IN ADOLESCENT AND YOUNG ADULTS	Benjamin Albertson, MD; Andrew Ockuly, MD; Ian Fletcher, BA; Daniel Wascher, MD
52	PATTERNS OF ALTERATIONS IN TIBIOFEMORAL ROTATION AT 0, 15, AND 30 DEGREES OF KNEE FLEXION IN PATIENTS WITH PATELLAR INSTABILITY	Jeffrey J. Nepple, MD

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53	FUNCTIONAL STRENGTH TESTING IS ASSOCIATED WITH ISOMETRIC KNEE STRENGTH IN ADOLESCENTS EARLY AFTER ACL RECONSTRUCTION	Adam P. Weaver, PT, DPT
54	RISK FACTORS FOR RECURRENCE OF MEDIAL ELBOW PAIN IN PEDIATRIC AND ADOLESCENT THROWING ATHLETES	Simon Ammanuel, BA; Nirav K. Pandya, MD

SPORTS SPECIALIZATION

55	GEOGRAPHY, SPECIALIZATION, AND THROWING ARM HEALTH IN HIGH SCHOOL BASEBALL PLAYERS	Eric G. Post, PhD, ATC; Aaron Struminger, PhD, ATC; Elizabeth Hibberd, PhD, ATC
56	SPORT SAMPLING IMPROVES PHYSICAL LITERACY COMPETENCY AND MOVEMENT QUALITY	Lindsay J. DiStefano, PhD, ATC; Emma F. Zuk, MS, ATC; Eleanor M. Beltz, PhD, ATC; Hayley J. Root, PhD, MPH, ATC
57	SPORT SPECIALIZATION PATTERNS IN PROFESSIONAL WOMEN'S ICE HOCKEY PLAYERS	Darryl Whitney, MD; Guillem Lomas, MD; Cordelia W. Carter, MD

STRESS FRACTURES/OVERUSE

58	CONVENTIONAL RADIOGRAPHIC REVIEW OF TIBIAL STRESS INJURIES IN ADOLESCENT ATHLETES WITH POSITIVE MAGNETIC RESONANCE IMAGING	Eric D. Nussbaum, MEd, LAT, ATC
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TIBIAL SPINE

59	PRE-TREATMENT MRIS IN TIBIAL SPINE FRACTURES: HOW MUCH ARE WE MISSING? A MULTICENTER STUDY	Jilan L. Shimberg, BA; Julien T. Aoyama, BA; Theodore J. Ganley, MD; Aristides I. Cruz, Jr., MD, MBA; Henry B. Ellis, Jr., MD; Peter D. Fabricant, MD MPH; Daniel W. Green, MD; R. Jay Lee, MD; Scott McKay, MD; Jason Rhodes, MD; Brant Sachleben, MD; Catherine Sargent, MD; Gregory A. Schmale, MD; Yi-Meng Yen, MD PhD; R. Justin Mistovich, MD
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LEARNER NOTIFICATION

PRISM

2020 7th Annual Meeting
January 23-25, 2020
Glendale, AZ

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Arthrex, Conmed, Phoenix Children's Hospital, Stanford Childrens Hospital

ACKNOWLEDGEMENT OF IN-KIND COMMERCIAL SUPPORT

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OBJECTIVES - AFTER ATTENDING THIS PROGRAM YOU SHOULD BE ABLE TO:

1. 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.
2. Examine multiple evidence based approaches to treating pediatric sports concerns. Explore clinical approaches to the injured athlete throughout their continuum of care.
3. Evaluate effective ways to improve patient care and reduce lifelong sequelae of sports injuries.

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Kim	Barber Foss	Q30 Innovations, LLC: Industry Sponsored Research
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Jed	Diekfuss	Q30 Innovations, LLC : Industry Sponsored Research
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Eric	Edmonds	OSSUR: Speakers Bureau; DEPUY SYNTHES: Research Grant Site Principal Investigator
Benton	Heyworth	Imagen, Inc.: Stock Shareholder
Naomi	Isaac	Summer Program Funding: Nth Dimensions funded summer opportunity
J. Todd	Lawrence	Sawbones: Other Financial or Material Support
Stephanie	Mayer	Arthrex: Consultant
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Jeffrey	Neppe	Smith and Nephew: Consultant; Zimmer Biomet: Research Grant Overall Principal Investigator; Ceterix: Consultant
Nirav	Pandya	Orthopediatrics: Consultant
Jason	Rhodes	orthopediatrics: Consultant
Michael	Saper	Arthrex, Inc.: Consultant
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- Sports physical therapy
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