

2026 POSNA Annual Meeting

Rosen Shingle Creek®
Orlando, FL
May 6-8, 2026



President: Kevin Shea, MD
Program Chair: John Vorhies, MD
Local Host: John Lovejoy III, MD



POSNA
PEDIATRIC ORTHOPAEDIC SOCIETY
OF NORTH AMERICA

SPONSORSHIP & EXHIBITOR OPPORTUNITIES

Help Shape the Future of Pediatric Orthopaedic Care

The **2026 POSNA Annual Meeting** brings together a global community of surgeons, researchers, allied health professionals, and industry experts dedicated to advancing musculoskeletal health for children. This flagship event features cutting-edge, evidence-based research, covering the entire spectrum of pediatric and adolescent musculoskeletal conditions.

WHY YOUR PARTNERSHIP MATTERS

POSNA's ability to deliver high-quality educational programs, collaborative research, and impactful advocacy is strengthened through the support of its Corporate Partners. These partnerships are *fundamental* to POSNA achieving its mission year after year.

YOUR PARTNERSHIP:

- Helps keep registration fees accessible
- Supports dynamic educational formats and expert faculty
- Expands global outreach and research opportunities
- Enhances the attendee experience, from scientific programming to networking events



WHY SPONSOR OR EXHIBIT AT THE ANNUAL MEETING?

- **Connect with the leaders shaping pediatric orthopaedics.** The Annual Meeting brings together thought leaders, surgeons, advanced practice providers, and trainees from across the globe in an energetic learning environment.
- **Showcase your innovations.** Exhibits, branded placements, and educational sponsorships offer meaningful touchpoints to highlight new products, research, and technologies.
- **Exchange ideas, build relationships, and elevate care.** POSNA values the collaborative partnership with industry that enables continuous improvement in musculoskeletal health for children.



Opportunities Are Still Available for the 2026 Annual Meeting

A variety of exhibit packages, branding opportunities, digital placements, and program sponsorships are still available! [Click here](#) to review our 2026 Corporate Brochure and contact posna@posna.org for more information.



TABLE OF CONTENTS

Program Committee.....	4
Thank You Abstract Reviewers.....	5
Breakout Session Planners	6
Program Chair Welcome.....	7
General Meeting Information.....	8
Registration Information.....	9
Housing & Transportation	10
Opening Event.....	11
Program at a Glance	12-13
Scientific Program.....	14-34
Howard Steel Lecturer.....	15
Lead Like Lori Lecture.....	28

ePosters	35-45
2025 Microgrant Winners	46
Research Grant Winners.....	47
Meeting Policies.....	48



"I look forward to the Annual Meeting each year as an opportunity to connect with colleagues and friends, exchange ideas, and engage in meaningful discussions across a variety of topics."

Allison Crepeau, MD

DATES TO REMEMBER

Registration Opens

February 18, 2026

Early Bird Registration Deadline

April 7, 2026

Housing Deadline

April 13, 2026

Pre-Registration Deadline

May 5, 2026

OnSite Registration Rates

May 6-8, 2026

MEET YOUR 2026 ANNUAL MEETING PROGRAM COMMITTEE

John Vorhies, MD, FAAOS, FAOA

POSNA Program Committee Chair
Stanford Health Care
Stanford, CA

Christine Ho, MD, FAAOS, FAAP, FAOA

Scottish Rite for Children, Children's Health Dallas,
University of Texas Southwestern Medical School
Dallas, TX

Julie Balch Samora, MD, PhD, MPH, FAAOS, FAOA

Akron Children's Hospital
Akron, OH

V. Salil Upasani, MD, FAAOS, FAOA

Rady Children's Health
San Diego, CA



John Vorhies, MD,
FAAOS, FAOA



Christine Ho, MD,
FAAOS, FAAP, FAOA



Julie Balch Samora,
MD, PhD, MPH,
FAAOS, FAOA



V. Salil Upasani, MD,
FAAOS, FAOA



"A truly innovative meeting that combines research, clinical insight, and fresh perspectives from emerging surgeons—making it both dynamic and inspiring."

Lorena Floccari, MD

THANK YOU ABSTRACT REVIEWERS

The Program Committee acknowledges the hard work of the POSNA volunteer readers and thanks the following for their dedication to the POSNA mission.

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Nanni Allington, MD	Rachel Goldstein, MD, MPH	Ronald Lewis, MD	Norman Ramirez, MD
Luiz Carlos Almeida da Silva, MD	Jorge Gomez Chavarria, MD	Tuo Li, MD, PhD	Rachel Randall, MD
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Jeanne Franzone, MD		Selina Poon, MD	
		Nigel Price, MD	

MEET YOUR 2026 BREAKOUT SESSION PLANNERS

Get to Know the Brilliant Minds Crafting Our Program

Immerse yourself in a dynamic learning environment where expert faculty will not only challenge you to think outside the box but also provide unwavering support as you navigate through your meeting experience so you can elevate your practice to new heights. Experience a collaborative atmosphere that fosters growth and innovation, propelling you toward success in 2026 and beyond.



Laurel Blakemore, MD
Pediatric Specialists
of Virginia
Fairfax, VA



R. Dale Blasier, MD
Arkansas Children's
Little Rock, AR



Steven Frick, MD
Wake Forest University
Charlotte, NC



Blake Montgomery, MD
Washington University
in St. Louis
St. Louis, MO



Kevin Neal, MD
Nemours Children's
Hospital, Florida &
Mayo Clinic
Jacksonville, FL



Kevin Shea, MD
Stanford Health Care
Stanford, CA

*"This meeting
inspired me to refine
my surgical techniques,
improve decision-making,
prevent complications, and
explore innovative tools to
elevate patient care."*

John Heflin, MD

WELCOME

Dear Colleagues,

On behalf of POSNA President Kevin Shea, MD, and the 2026 Program Committee (John Vorhies, MD; Christine Ho, MD; Julie Samora, MD; and V. Salil Upasani, MD), it is my pleasure to invite you to attend the 2026 POSNA Annual Meeting in Orlando, FL.

We heard the feedback from POSNA members loud and clear—more high-quality scientific research presented at the podium. In response, we have expanded concurrent scientific sessions to ensure that the best research in our field is shared and discussed by as many members as possible. Dissemination and discussion of high-quality research remain the primary goal of this meeting. Building on last year's success of the fireside chats and roundtable discussions, we will continue these engaging sessions that encourage dialogue between pediatric orthopaedic surgeons from a wide variety of practice settings.

We are proud to present a program that reflects the breadth, quality, and collegial spirit of our specialty. There is something for everyone for all stages of a career. We hope that this year's combination of rigorous science, interactive learning, and genuine collegiality will leave all attendees informed, inspired, and connected.

Sincerely,



John Vorhies, MD
Program Chair

1100+
ABSTRACTS
SUBMITTED

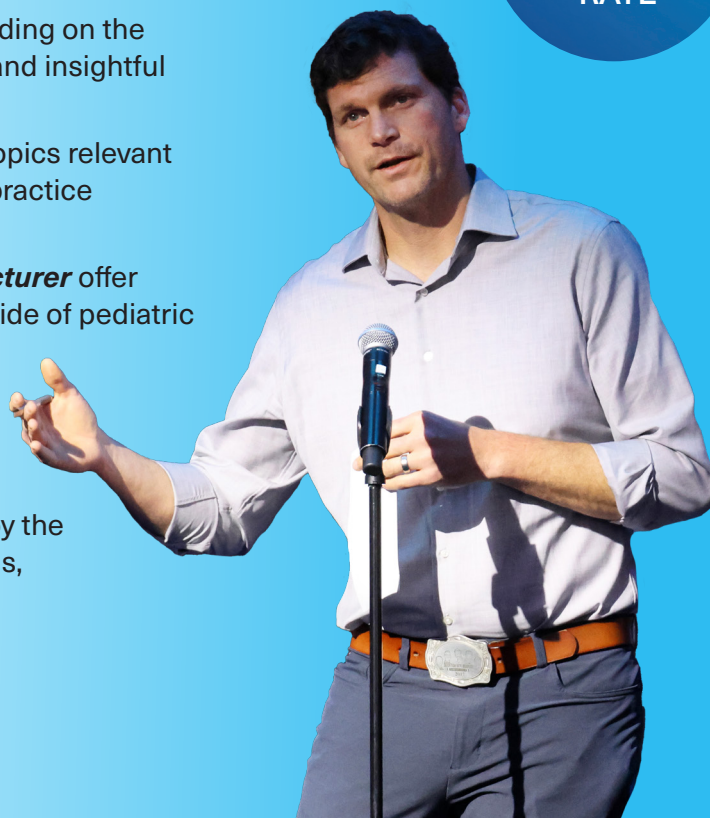
150+
CASE
REPORTS

175+
VOLUNTEER
REVIEWERS

25%
ACCEPTANCE
RATE

HIGHLIGHTS OF THE 2026 ANNUAL MEETING:

- The return of **Case Reports from the podium**, building on the success of last year's sessions that sparked lively and insightful discussions moderated by leaders in our field
- **Fireside Chats** and **Roundtable Discussions** on topics relevant to pediatric orthopaedic surgeons across diverse practice environments
- The **Lead Like Lori Lecture** and **Howard Steel Lecturer** offer inspiring and inciteful stories from trailblazers outside of pediatric orthopaedics
- Thursday afternoon: free time for research study group meetings, networking, informal gatherings, and local excursions
- Friday morning: award abstract session, followed by the Distinguished Achievement Award, meeting awards, Presidential Speaker, and Presidential Transfer



GENERAL MEETING INFORMATION

LEARNING OBJECTIVES

- Analyze the latest advances in pediatric orthopaedic management to inform clinical decision-making.
- Incorporate best practice guidelines to optimize musculoskeletal health for pediatric patients.
- Identify and implement strategies to increase quality, safety, and value to patient care.

JOINT ACCREDITATION STATEMENT

In support of improving patient care, this activity has been planned and implemented by Amedco LLC and the Pediatric Orthopaedic Society of North America. 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.

Professions in scope for this activity are listed below. Amedco Joint Accreditation Provider Number: 4008163.

AMA CREDIT DESIGNATION

Amedco LLC designates this live activity for a maximum of **13.5 AMA PRA Category 1 Credits™** for physicians. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



DISCLOSURE

Each meeting presenter has been asked to disclose if he/she/they has received something of value from a commercial company or institution, which relates directly or indirectly to the subject of their presentation. In the online posted disclosure report, an indication of the participant's disclosure appears after his/her/their name as well as the commercial company or institution that provided the support. POSNA does not view the existence of these disclosed interests or commitments as necessarily implying bias or decreasing the value of the author's participation in the meeting.

FDA STATEMENT (UNITED STATES)

Some drugs or medical devices demonstrated at the Annual Meeting may not have been cleared by the FDA or have been cleared by the FDA for specific purposes only. The FDA has stated that it is the responsibility of the physician to determine the FDA clearance status of each drug or medical device he/she/they wishes to use in clinical practice. Any drug or medical device is being used "off label" if the described use is not set forth on the product's approval label.

- ★ Indicates a presentation in which the FDA has not cleared the drug and/or medical device for the use described (i.e., the drug or medical device is being discussed for an "off-label" use).

POSNA-SUPPORTED RESEARCH

- ◆ Indicates research by a POSNA grant

Become a POSNA Member and Advance Your Pediatric Orthopaedic Career!

Interested in POSNA membership? Click below to complete the form to be notified when the 2027 membership cycle opens in June 2026 or visit posna.org for more information.

[Click Here](#)



REGISTRATION INFORMATION

NEW THIS YEAR!

To offer a welcoming and inclusive experience for all attendees, this year's registration fee includes our Opening Event, all sessions, daily breakfast and coffee breaks, and the Farewell Reception. You do not need to purchase a separate ticket to attend the Opening Event.

EARLY REGISTRATION FEES* (US DOLLARS)

POSNA Member	\$ 950
Non-Member	\$ 1,850
Resident/Fellow	\$ 700
RN/PA/Allied Health	\$ 700
Active Military	\$ 700
Medical Student	\$ 700
Delegates from Reduced Rate Countries: Low Income	\$ 550
Accompanying Person, 18+ yrs	\$ 400
Emeritus Member	\$ 700
Children 13-17, per child	\$ 100
Children 6-12, per child	\$ 25

* Increase in 2026 registration fee includes ticket to the Opening Event. Registration fees are final and may not be reduced based on attendance at the Opening Event.

REGISTRATION DEADLINES

The Early Bird Registration deadline is April 7, 2026.

*An additional \$50 will apply to the above costs starting April 8, 2026.

Pre-Registration closes on May 5, 2026. There will be an additional fee of \$50 added onsite.

If you need to pay by wire, cash, or check, payment will need to be received before you are able to register. Please email posna@posna.org for further instructions.

Note: The accompanying person fee includes breakfast Wednesday-Friday, the Opening Event on Wednesday evening, and the Farewell Reception on Friday evening. Accompanying persons must be registered in order to attend.

CANCELLATION POLICY

Full refunds will be provided less a processing fee if received in writing to posna@posna.org, by the date listed below. No refunds will be granted after May 6, 2026. Registrants will receive confirmation and a refund within 14 days of receipt of their cancellation notice.

February 18–April 7, 2026: Less a 20% process fee

April 8–May 5, 2026: Less a 50% processing fee

May 6, 2026: No Refunds

LETTER OF INVITATION

Individuals requiring an official Letter of Invitation can request one from the POSNA office at posna@posna.org. To receive a Letter of Invitation, attendees must first register for the meeting and submit payment in full. The Letter of Invitation does not financially obligate POSNA in any way. All expenses incurred in relation to the meeting attendance are the sole responsibility of the attendee.

PRIVACY POLICY – USE OF PERSONAL INFORMATION

Registration lists for the 2026 POSNA Annual Meeting, including the registrant's name and postal mailing address, are used to process your meeting registration and to provide you with information and materials related to POSNA. POSNA shares your personal data with its sponsors, exhibitors, and other vendors related to the meeting in order to notify you of products and services that may be of interest to you. No financial or other personal identifying information is disclosed. POSNA takes reasonable steps to ensure that our sponsors protect your information on POSNA's behalf. Please [click here](#) for additional information on POSNA's Privacy Policy.

DISCLOSURE OF PERSONAL INFORMATION

POSNA registration lists, including the registrant's name and postal mailing address, are provided to POSNA's sponsors as a benefit. No financial or other personal identifying information is disclosed. POSNA takes reasonable steps to ensure that our sponsors protect your information on POSNA's behalf. Please [click here](#) for additional information on POSNA's Privacy Policy.

To obtain the discounted rate for the above registration categories, contact posna@posna.org, with the information required.

¹Residents and Fellows: Provide your chief/director's name, institution's name, and phone number.

²RN, PA, and Allied Health: Provide your chief/director's name, institution's name, and phone number.

³For POSNA members in active military duty only: Contact posna@posna.org.

⁴Medical Students: Provide your most recent transcript showing good standing from your institution.



The 2026 POSNA Annual Meeting will be held at the Rosen Shingle Creek® Orlando

Rosen Shingle Creek® Orlando
9939 Universal Blvd.
Orlando, FL 32819

\$245/night, plus room and tax

Reserve your room by April 13, 2026, to receive our discounted conference rate.

For additional details and to book your accommodations

[Click Here](#)

AIRPORT

Orlando International Airport (MCO) is an approximate 10–15-minute drive to/from Rosen Shingle Creek® Orlando.

For additional details on ground transportation, rental cars, and train service

[Click Here](#)

GETTING AROUND TOWN

Rosen Shingle Creek® Orlando is a Universal Orlando Partner Hotel offering complimentary scheduled daily transportation to Universal Orlando Resort™, SeaWorld® Orlando, and Aquatica®. For full details and schedules

[Click Here](#)



OPENING EVENT



You're in for an Extraordinary Evening Where Thrills Meet Wonder!

Wednesday, May 6, 2026

7:00 pm–10:00 pm

SeaWorld® Orlando

Enjoy food, drinks, and entertainment while exploring iconic attractions like **Antarctica: Empire of the Penguin®**, a breathtaking journey to the bottom of the earth.

Amp up the excitement with access to SeaWorld's legendary coasters—soar like a ray on **Manta®**, Florida's only flying roller coaster, or take on **Kraken®**, Orlando's only floorless coaster with soaring heights and dangling feet.

This one-of-a-kind event delivers immersive experiences and adrenaline-pumping rides—all in one incredible night.



New This Year! The cost to attend the Opening Event is included in your registration fee! Additional Opening Event tickets are available for purchase for non-registered guests and exhibitors.

- \$125 from February 18 to May 5
- \$150 if purchased on onsite

PROGRAM AT A GLANCE

MOBILE APP

ePosters

TUESDAY, MAY 5

2:00 PM–6:00 PM Registration Open

WEDNESDAY, MAY 6

7:00 AM–4:00 PM Exhibit Hall Open

7:00 AM–5:00 PM Registration Open

7:00 AM–8:00 AM Breakfast & Exhibit Viewing

8:00 AM–8:26 AM Opening Ceremony

**8:27 AM–9:44 AM Session 1. Trauma: Supracondylar Fractures—
Pathways, Pitfalls, and Pain Control**

9:45 AM–10:30 AM Howard Steel Lecturer

10:35 AM–10:55 AM Mid-Morning Break & Exhibit Viewing

11:00 AM–12:15 PM Session 2. (Concurrent)
A. Spine: Avoiding and Navigating Complications
B. Hip: DDH in Infancy—Imaging, Bracing, and Beyond
C. Syndromes and Dysplasias: Biologics, Bones, and Growth
D. Billing & Coding: Practical Strategies in Pediatric Orthopaedics

12:15 PM–2:15 PM Lunch Break

12:30 PM–2:05 PM POSNA Business Meeting

2:15 PM–3:30 PM Session 3. (Concurrent)
A. Spine: Optimizing Pain Pathways in AIS and Advances in Neuromuscular Scoliosis
B. Sports: Patellofemoral Instability, Cartilage Lesions, and ACL Recovery
C. Congenital Foot Deformities: From Coalitions to Clubfoot
D. Case Conundrums in the Pediatric Upper Extremity

3:35 PM–3:55 PM Afternoon Break & Exhibit Viewing

4:00 PM–5:15 PM Session 4. (Concurrent)
A. Neuromuscular: Lengthening, Releases, and Muscle Biology
B. Practice Improvement Potpourri: Infection, Pathways, and Pedagogy
C. Hand/Upper Extremity: Brachial Plexus, Limb Differences, and Overuse Elbows
D. Case Reports: Tumor, Infection, and Syndromic Deformity

7:00 PM–10:00 PM Opening Event (Off-site)

THURSDAY, MAY 7

7:00 AM–12:00 PM Exhibit Hall Open

7:00 AM–12:30 PM Registration Open

7:00 AM–8:00 AM Breakfast & Exhibit Viewing

PROGRAM AT A GLANCE

THURSDAY, MAY 7 CONTINUED

8:00 AM–9:40 AM	Session 5. (Concurrent) A. Spine: Evolution of AIS Care—Fusion Strategies to Tethering B. Sports: ACL and Meniscus C. Hip: Perthes to PAO—Evolving Strategies in Hip Preservation D. Negotiation Strategies for the Pediatric Orthopaedic Surgeon
9:45 AM–10:05 AM	Mid-Morning Break & Exhibit Viewing
9:50 AM–10:50 AM	Industry Symposia
11:00 AM–11:14 AM	Hall of Fame
11:15 AM–11:19 AM	Special Effort & Excellence Award
11:20 AM–12:25 PM	Lead Like Lori Lecture
12:45 PM–2:15 PM	Forging Connections: POSNA Community Surgeons' Social
2:00 PM–4:00 PM	Kids Forum

FRIDAY, MAY 8

7:00 AM–3:35 PM	Exhibit Hall Open
7:00 AM–4:00 PM	Registration Open
7:00 AM–8:00 AM	Breakfast & Exhibit Viewing
8:00 AM–8:20 AM	Presidential Speaker
8:20 AM–10:00 AM	Session 6. Award-Nominated Papers Part 1
10:05 AM–10:25 AM	Mid-Morning Break & Exhibit Viewing
10:30 AM–11:53 AM	Session 7. Award-Nominated Papers Part 2
11:54 AM–12:15 PM	Distinguished Achievement Award
12:15 PM–12:20 PM	2027 Meeting Preview
12:20 PM–12:30 PM	Humanitarian Award
12:30 PM–12:35 PM	2026 Scientific Awards
12:35 PM–12:45 PM	Presidential Transfer
12:50 PM–1:55 PM	Lunch Break
2:00 PM–3:15 PM	Session 8. (Concurrent) A. Trauma: Focus on the Upper Extremity B. Spine: Early Onset Scoliosis C. Case Files in Lower Extremity Trauma and Reconstruction D. Practical Approaches to Complications and Medicolegal Issues in Pediatric Orthopaedics
3:15 PM–3:35 PM	Afternoon Break & Exhibit Viewing
3:40 PM–4:50 PM	Session 9. Trauma: Lower Extremity Fractures—Nailing, Bracing, & Remodeling JPOSNA® Spotlight Papers
5:00 PM–6:00 PM	Farewell Reception

*Program subject to change

OPENING CEREMONY

8:00 AM–8:26 AM

8:00 AM–8:09 AM

Welcome

POSNA President: Kevin Shea, MD

Local Host: John Lovejoy, MD

8:10 AM–8:15 AM

Introductions

- International Guests
- Traveling Fellows
- POGO Visiting Scholars
- Distinguished Achievement Award Recipient
- Presidential Speaker
- New Members: Class of 2026
- 2025-2026 Board of Directors

8:16 AM–8:26 AM

Recognition of Industry Sponsors

SESSION 1. TRAUMA: SUPRACONDYLAR FRACTURES— PATHWAYS, PITFALLS, AND PAIN CONTROL

8:27 AM–9:44 AM

Moderators: Eric Edmonds, MD & Amy McIntosh, MD

8:27 AM–8:32 AM

Welcome

#1

8:33 AM–8:37 AM

Surgical Management of Flexion-Type Supracondylar Humerus Fractures

Kyle Bundschuh; **Nicholas**

Fletcher, MD

Children's Healthcare of Atlanta

Atlanta, GA, United States

#2

8:38 AM–8:42 AM

Pulse Oximetry for Assessment of Pulseless Perfused Supracondylar Humerus Fractures

Peter Cirrincione; Raheel Yaseen;

John Carroll; Angielyn San Juan;

David Roberts, MD

Endeavor Health Skokie Hospital

Chicago, IL, United States

#3

8:43 AM–8:47 AM ♦

Twisted! Does Residual Malrotation Following Percutaneous Pinning of Pediatric Supracondylar Humerus Fracture Impact Long-Term Patient-Reported Outcomes?

Stefano Cardin, MD; Scott Mahon, BS;

Casey Kuka; Amanda Pang; Divya Jain;

Apurva Shah, MD, MBA

Children's Hospital of Philadelphia

Philadelphia, PA, United States

8:48 AM–8:56 AM

Discussion

#4

8:57 AM–9:01 AM

The Safety and Efficacy of Provisional Reduction in the Emergency Department for Displaced Supracondylar Humerus Fractures With Soft Tissue Compromise or Vascular Asymmetry

Laura Bess; Paraskevi Limberatos;

Spencer Richardson; Robert Tysklind;

Robert Bielski, MD

Indiana University

Indianapolis, IN, United States

#5

9:02 AM–9:06 AM

Age-Stratified Imaging Stewardship in Pediatric Supracondylar Humerus Fracture

Errol Mortimer, MD

UMass Memorial Health

Worcester, MA, United States

#6

9:07 AM–9:11 AM

Beneath the Surface: Unveiling Risk Factors for Fishtail Deformity Following Pediatric Supracondylar Humerus Fractures

Andrew Kim; Robyn Joan Gawlik; Eric

Edmonds, MD; Sulagna Sarkar; Scott

Mahon, BS; **Brendon Mitchell;**

Apurva Shah, MD, MBA

Children's Hospital of Philadelphia

Philadelphia, PA, United States

9:12 AM–9:20 AM

Discussion

#7

9:21 AM–9:25 AM

"SPEED" an Outpatient Surgical Pathway Reduces Inpatient Stays and NPO Times for Urgent Pediatric Fractures

Malini Anand; Megan Terle; Brian Haus,

MD; Amanda Whitaker, MD;

Holly Leshikar, MD, MPH

University of California, Davis

Sacramento, CA, United States

#8

9:26 AM–9:30 AM

Breaking the Habit: A Multicenter Experience Following Discontinuation of Postoperative Opioid Analgesia for Supracondylar Humerus Fractures

Kevin Orellana; Scott Mahon, BS; Apurva

Shah, MD, MBA; **Todd Blumberg, MD**

Seattle Children's Hospital

Seattle, WA, United States

#9

9:31 AM–9:35 AM

Relief Without Risk: Ketorolac Can be Used for Pain Control in Pediatric Fracture Patients Without Increased Nonunion Risk

Simon Blanchard; Edward Dockery;

Ismael Cañete; Jason Anari, MD; Keith

Baldwin, MD; Apurva Shah, MD, MBA

Children's Hospital of Philadelphia

Philadelphia, PA, United States

9:36 AM–9:44 AM

Discussion



HOWARD STEEL LECTURER

9:45 AM–10:30 AM

9:45 AM–9:49 AM

Introduction of the Howard Steel Lecturer

Kevin Shea, MD

9:50 AM–10:30 AM

Howard Steel Lecturer

From Exam Rooms to iPhones:
Lessons From the Front Lines
of Health

Dr. Mike Evans, a physician-innovator and professor of family medicine at the University of Toronto, is known

for bridging medicine, public education, and human-centered technology.

Creator of the “Med School for the Public” with over 35 million learners worldwide, he has been featured in *JAMA*, *The Lancet*, and *BMJ*. A former Olympic physician and early doctor at Apple, he now advises leading companies on how technology can help people live better lives.



Scott Luhmann, MD

*Washington University in St. Louis
St. Louis, MO, United States*

#15

11:37 AM–11:41 AM

A Paradigm Shift in Delivering Safe Spine Deformity Surgery: Towards the Utilization of Artificial Intelligence for Intraoperative Neuromonitoring

Daniel Sucato, MD, MS; Michelle Christie, MD; Tiffany Lo; Rudy Avila; Hannah Shreiner; David Thornberg; Marjorie Zielke

*Scottish Rite for Children
Dallas, TX, United States*

11:42 AM–11:50 AM Discussion

#16

11:51 AM–11:55 AM

Utility of Limited Sequence “FAST Spine MRI” Scans as a Screening Tool in Patients With Idiopathic Scoliosis

Anna Rambo, MD; Aryan Shah; Chetan Shah; John Lovejoy, MD; Vinay Kandula; Brett Shannon, MD; Mona Mathew; Suken Shah, MD; Kevin Neal, MD
*Nemours Children’s Hospital, Florida
Jacksonville, FL, United States*

#17

11:56 AM–12:00 PM

Low Utility of Pre-Operative Cardiology Referrals in Adolescent Idiopathic Scoliosis Using a Cutoff of Cobb >70 Degrees

Alyssa Barré, MD; Andrew Kirk; Ryan Muchow, MD; Aamir Kadri; Vishwas Talwalkar, MD; **Vincent Prusick, MD**
*University of Kentucky
Lexington, KY, United States*

#18

12:01 PM–12:05 PM

Quantifying O-arm Radiation Exposure to Operating Room Personnel During Spinal Fusion for Adolescent Idiopathic Scoliosis Using Real-Time Dosimetry

Preston Jenkins; Elizabeth Nadeau; Sarah Jenkins; Kola George; Gabrielle Rauls; Robert Murphy, MD; Sara Van Nortwick, MD
*Medical University of South Carolina
Charleston, SC, United States*

12:06 PM–12:14 PM Discussion

SESSION 2A. SPINE: AVOIDING AND NAVIGATING COMPLICATIONS

11:00 AM–12:15 PM

Moderators: Jennifer Bauer, MD, MS & Todd Ritzman, MD

11:00 AM–11:02 AM Introduction

#10

11:03 AM–11:07 AM

Navigating the Fallout: How Pediatric Spine Surgeons Cope, Recover, and Persevere After Major Surgical Complications

Richard Schwend, MD; Hannah Geoffroy; Sandeep Yanamala; Firas Batrash; Gary Sutkin
*The Children’s Mercy Hospital
Kansas City, MO, United States*

#11

11:08 AM–11:12 AM

PDSA Pathway Power: Tiny Cycles, Giant Steps Against SSIs

Kali Tileston, MD; Meghan Imrie, MD; James F. Policy, MD; John Vorhies, MD
*Stanford Health Care
Palo Alto, CA, United States*

#12

11:13 AM–11:17 AM

Be Careful What You Ask For: Few Patients Meet Mean Arterial Pressure (MAP) Goals After Intraoperative Neuromonitoring (IONM) Changes During Pediatric Scoliosis Surgery

Michaela O’Connor; Michael Brown; Mehdi Elfilali; Alexander Park; Joshua Choi; Josephine Coury; Benjamin Royce, MD; **Michael Vitale, MD, MPH**
*New York-Presbyterian/Columbia
University Irving Medical Center
New York, NY, United States*

11:18 AM–11:26 AM Discussion

#13

11:27 AM–11:31 AM ★ ◆

Dynamic Spinal Cord Mapping: A Study of Accuracy, Sensitivity, and Specificity in Localizing Spinal Cord Injury Using an Animal Model

Allen Kadado, MD; Adam Mansour; Daryn Strub, BA; Josiah Wolf, MD; Kirsten Tulchin-Francis, PhD; Mutaleeb Shobode; Reid Chambers, DO, MS
*Nationwide Children’s Hospital
Columbus, OH, United States*

#14

11:32 AM–11:36 AM

Influence of Baseline IONM Data Quality on Neuromonitoring Performance and Surgical Actions in Pediatric Spinal Deformity Surgery

Christopher Bozorgmehr; Leah Rakers;

◆ Research supported by POSNA grant

★ Indicates a presentation in which the FDA has not cleared the drug and/or medical device for the use described

SESSION 2B. HIP:
DDH IN INFANCY—IMAGING,
BRACING, AND BEYOND

11:00 AM–12:15 PM

Moderators: Rachel Goldstein, MD & V. Salil Upasani, MD

11:00 AM–11:02 AM Introduction

#19

11:03 AM–11:07 AM

Lessons Learned from a Prospective, International, Multicentre Cohort: Evaluating Treatment Effectiveness and Predicting Persistent Hip Dysplasia Using Statistical Shape Modelling

Maartje Van Delden; Harrie Weinans; Anne Spaans; Emily Schaeffer, PhD; Kishore Mulpuri, MBBS, MHSc, FRCSC; Ralph Sakkars, MD, PhD; Global Hip Dysplasia Study Group BC Children's Hospital Vancouver, BC, Canada

#20

11:08 AM–11:12 AM

Ultrasound-Based Global Risk Stratification for Hip Dysplasia: Evidence Synthesis and Geographic Variations in 1,015,019 Infants

Chien-An Shih; Jou-Hua Wang; Chii Lin, MD; NCKUH DDH DSC Team National Cheng Kung University Hospital Tainan, Taiwan

#21

11:13 AM–11:17 AM

Combined Version Strongly Predicts Femoral Head Coverage Greater Than Femoral or Acetabular Version Alone in Hip Dysplasia

David Liu, MD; Miles Batty, MD; Mahdi Aghaalkhani; Shanika De Silva; Tara Kirchman; Travis Matheney, MD; Michael Millis, MD; Young Kim, MD; Mohammadreza Movahhedi; Ata Kiapour, PhD, MMSc Boston Children's Hospital Boston, MA, United States

11:18 AM–11:26 AM Discussion

#22

11:27 AM–11:31 AM

The Next Dimension: Addition of 3D Ultrasound Measurements Better Predicts Residual Acetabular Dysplasia Following Successful Pavlik Treatment of DDH Compared to 2D Metrics Alone

Simon Blanchard; Carter Hall; Adam McArthur; Sulagna Sarkar; Jacob Jaremko; Wudbhav Sankar, MD Children's Hospital of Philadelphia Philadelphia, PA, United States

#23

11:32 AM–11:36 AM

Developmental Dysplasia of the Hip at 6-Month Screening Pelvic Radiographs Following Normal 6-Week Ultrasound in Breech Infants

Samuel Beber; Ethan Scher; Daniel Math; Sarah Lu; Jennifer Kunes; Katherine Groff; Abigail Allen, MD; David Scher, MD; Shevaun Doyle, MD Hospital for Special Surgery New York, NY, United States

#24

11:37 AM–11:41 AM

When Normal Is Not the End: Late Developmental Dysplasia of the Hip at Six Months in Infants With Early Risk Factors and Physiologic Hip Immaturity (Graf IIA) With a Normal Ultrasound at Three Months

David Liu, MD; Miles Batty, MD; Tara Kirchman; Freya Gupta; Shanika De Silva; Young Kim, MD; Eduardo Novais, MD Boston Children's Hospital Boston, MA, United States

11:42 AM–11:50 AM Discussion

#25

11:51 AM–11:55 AM

Pavlik Treatment for Developmental Dysplasia of the Hip Is Associated With Elevated Rates of Maternal Depression, Impaired Maternal-Infant Bonding, and Parenting Stress

William Morris, MD; Emily Gale; Lauren Osborne; Elizabeth Hubbard, MD; James Ogbeide; Harry Kim, MD; Corey Gill, MD Scottish Rite for Children Dallas, TX, United States

#26

11:56 AM–12:00 PM

Pushing Past the Palsy: Treatment of Infantile DDH After Femoral Nerve Palsy

Elizabeth Wacker, MD; Carter Hall; Meg Morro; Nakul Talathi, MD; Christopher DeFrancesco, MD; Wudbhav Sankar, MD Children's Hospital of Philadelphia Philadelphia, PA, United States

#27

12:01 PM–12:05 PM

Spinal Anesthesia: A Safe and Effective Alternative to General Anesthesia for Infantile DDH Surgery

Alex Gornitzky, MD; Ashlee Holman; Carter Hall; Meryl William; Wudbhav Sankar, MD; Ira Zaltz, MD University of Michigan Ann Arbor, MI, United States

12:06 PM–12:14 PM Discussion

SESSION 2C. SYNDROMES AND
DYSPLASIAS: BIOLOGICS,
BONES, AND GROWTH

11:00 AM–12:15 PM

Moderators: Elizabeth Hubbard, MD & L. Reid Nichols, MD

11:00 AM–11:02 AM Introduction

#28

11:03 AM–11:07 AM

Can't Blame the Bone: Guided Growth in Patients With Osteogenesis Imperfecta Has Similar Rates of Correction and Complications to Patients With Idiopathic Causes

Miranda Brake; Hyrum Judd; Bryan Menapace, MD, MBA; Jennifer Weiss, MD; Cynthia Nguyen, MD Shriners Children's Southern California Pasadena, CA, United States

#29

11:08 AM–11:12 AM ★

Improvements in Lower Extremity Alignment are Associated With Physical Functioning in Children With Achondroplasia Treated With Navepegitride: 52-Week Results from the ApproaCH Trial

Kevin Smit, MD; Leanne Ward; Daniel Hoernschemeyer, MD; Philippe

Campeau; Sasha Carsen, MD, FRCSC; Andrew Tice, MD; Stefan Jackowski; Aimee Shu; Janet Legare; Hanne Hove; Carlos Bacino; Maya Scharke; Ciara McDonnell; M. Abuzzahab; Michael Makara; Michael Ominsky; Lærke Clement Freiberg; Meng Mao; Ravi Savarirayan
Children's Hospital of Eastern Ontario
Ottawa, ON, Canada

#30

11:13 AM–11:17 AM

Effect of Vosoritide on Genu Varum in Children With Achondroplasia: 1-Year Results From Two Randomized Placebo-Controlled Studies

Klane White, MD; Melita Irving; Swati Mukherjee; Christine Rivat; Ian Sabir; Anne Dee; Ravi Savarirayan
Children's Hospital Colorado
Aurora, CO, United States

11:18 AM–11:26 AM Discussion

#31

11:27 AM–11:31 AM

Humeral Lengthening in Patients With Achondroplasia: Surgical Technique to Minimize Risk of Radial Nerve Palsy

Michael Brown; Arun Hariharan, MD, MS; **Aaron Huser, DO**; David Feldman, MD
Paley Orthopedic & Spine Institute
West Palm Beach, FL, United States

#32

11:32 AM–11:36 AM

Two-Year Structural Skeletal Outcomes of Burosumab Therapy in Pediatric X-linked Hypophosphatemia: A Radiographic Cohort Study

Mi Hyun Song; Wonik Lee; Chang Ho Shin, MD; Tae-Joon Cho, MD
Seoul National University Hospital
Seoul, South Korea

#33

11:37 AM–11:41 AM

Lower Extremity Rotational and Coronal Plane Parameters Are Relatively Stable by Eight Years of Age Using CT Scanning in a Random Decedent Cohort

Moiz Nasir; Kallie Chen; Amrita Bonthu; **Raymond Liu, MD**
University Hospitals Cleveland Medical Center
Cleveland, OH, United States

11:42 AM–11:50 AM Discussion

#34

11:51 AM–11:55 AM

Bone Union and Quality of Life after the Congenital Pseudarthrosis of the Tibia – Mid-Term Results

Milud Shadi, MD, PhD; Piotr Janusz, MD, PhD; Tomasz Kotwicki
Poznan University of Medical Sciences,

Department of Spine Disorders and Pediatric Orthopedics
Poznan, Poland

#35

11:56 AM–12:00 PM

Growing Pains Aren't Cancer: Rethinking MRI for Pediatric Osteochondromas

Saurav Pandey; Shanika De Silva; Neha Jejuriar; Sarah Ballatori; **Carrie Heincelman**; Megan Anderson, MD; Mark Gebhardt, MD
Boston Children's Hospital
Boston, MA, United States

#36

12:01 PM–12:05 PM ♦

MEK Inhibitor Treatment Improves Pseudarthrosis Healing Associated With the Osteofibrous Dysplasia RASopathy

Aysha Khalid, PhD; Kristin Denton; Nandina Paria; Meghan Wassell; Robert Hammer; John Ritter; Mylinh Nguyen; David Podeszwa, MD; Laura Klesse; Carol Wise, PhD; **Jonathan Rios, PhD**
Scottish Rite for Children
Dallas, TX, United States

12:06 PM–12:14 PM Discussion

♦ Research supported by POSNA grant

2D. BILLING AND CODING: PRACTICAL STRATEGIES IN PEDIATRIC ORTHOPAEDICS

11:00 AM–12:15 PM

Chairs: R. Dale Blasier, MD & Kevin Neal, MD, MBA

This breakout will provide a structured, practical approach to current billing and coding challenges in pediatric orthopaedics. The session will begin with expert presentations highlighting updates and universal strategies, followed by subspecialty-specific roundtables so attendees can focus on issues most relevant to their practice.

11:00 AM–11:03 AM

Introduction

R. Dale Blasier, MD & Kevin Neal, MD, MBA

11:04 AM–11:11 AM

Unlisted Codes

R. Dale Blasier, MD

11:12 AM–11:19 AM

Two Surgeon Coding

Ryan Muchow, MD

11:20 AM–11:27 AM

E&M vs CPT for Fracture

Benjamin Martin, MD, MBA

11:28 AM–11:35 AM

Leveraging Residents and APPs

Kevin Neal, MD, MBA

11:36 AM–11:45 AM

Panel Q&A

11:46 AM–12:05 PM

Small Group Discussion: Spine/Hip, Sports/Hand, Limb Deformity/Trauma, Neuromuscular/Foot and Ankle

Table Facilitators: R. Dale Blasier, MD; Hilda Kriel, MD; Craig Louer Jr., MD; Benjamin Martin, MD, MBA; Ryan Muchow, MD; Kevin Neal, MD, MBA; Scott Rosenfeld, MD; Burt Yaszay, MD

12:06 PM–12:15 PM

Highlights and Discussion

R. Dale Blasier, MD & Kevin Neal, MD, MBA

SESSION 3A. SPINE:
OPTIMIZING PAIN PATHWAYS
IN AIS AND ADVANCES IN
NEUROMUSCULAR SCLIOSIS

2:15 PM–3:30 PM

Moderators: Michael Glotzbecker, MD, MSc & Selina Poon, MD

2:15 PM–2:17 PM Introduction

#37

2:18 PM–2:22 PM

Postoperative Dexamethasone Reduces Opioid Use in Adolescent Idiopathic Scoliosis: A Time-Dependent Analysis

Matthew Miyasaka; Constance Maglaras; Alon Shertzer; Juan Carlos Rodriguez Olaverri; **Mara Karamitopoulos, MD**
NYU Langone Health
New York, NY, United States

#38

2:23 PM–2:27 PM

Combined Liposomal Bupivacaine and Dexamethasone Results in a Fivefold Reduction of Inpatient Opioid Use Following PSF in AIS Surgery

K. Aaron Shaw, DO, FAAOS; Nicolette Saddler; Michon Huston; John Anderson, MD; Michael Benvenuti, MD; Ashley Sherman; Anne Stuedemann, MSN, NP, C
The Children's Mercy Hospital
Kansas City, MO, United States

#39

2:28 PM–2:32 PM

Does Intrathecal Morphine Injection Pre- or Post-Incision During Posterior Spinal Fusion Affect Patient Outcomes?

Vishal Sarwahi, MBBS, MS; Alexander Morledge; Anabelle Cohen; Katherine Eigo; Effat Rahman; Viraaj Sarwahi; Michelle Kars; Benita Liao; Yungtai Lo; Jon Paul DiMauro, MD; Terry Amaral, MD
Northwell Health
New Hyde Park, NY, United States

2:33 PM–2:41 PM Discussion

#40

2:42 PM–2:46 PM

Radiographic Progression of Scoliosis After Triradiate Cartilage Closure in Non-Ambulatory Cerebral Palsy: WHO Needs Continued Surveillance?

Satoshi Takada; Jason Howard, MD, FRCSC; Ali Asma; Alice Taylor; Anuj Gupta; M. Wade Shrader, MD
Nemours Children's Hospital, Delaware
Wilmington, DE, United States

#41

2:47 PM–2:51 PM

The Young and The Flexible: Predicting Curve Correction in Neuromuscular Scoliosis

Alastair Sterns; Jacquelyn Valenzuela-Moss; Tyler Tetreault, MD; Tiffany Phan; Tishya Wren, PhD; Ian Fletcher; Lindsay Andras, MD; **Michael Heffernan, MD**
Children's Hospital Los Angeles
Los Angeles, CA, United States

#42

2:52 PM–2:56 PM

The Association Between Sagittal Plane Parameters and Patient Reported Outcomes in Patients With Neuromuscular Scoliosis

Trinity Kronk; Hiroko Matsumoto, PhD; Walter Truong, MD; Ryan Fitzgerald, MD; Jessica McQuerry, MD; Richard Steiner; Brandon Ramo, MD; Pediatric Spine Study Group; **Lorena Floccari, MD;** Pediatric Spine Study Group
Akron Children's Hospital
Akron, OH, United States

2:57 PM–3:05 PM Discussion

#43

3:06 PM–3:10 PM

Is it Worth the Risk of a "Blown Save?" Calling in an Incision "Closer" May Increase Infection Rates in Pediatric Scoliosis Surgery

Ally Yang; Matthew Kanzler; Amy Noyes, CPNP; **Dominick Tuason, MD**
Yale New Haven Health
New Haven, CT, United States

#44

3:11 PM–3:15 PM

Determinants of Spinal Bracing Success in Mitigating Spine Deformity Progression in Spinal Muscular Atrophy (SMA)

Hiroko Matsumoto, PhD; Yuri Ota;

Joyce Huang; Michael Hresko, MD; Ron El-Hawary, MD, MSc; Grant Hogue, MD; Craig Birch, MD; John Emans, MD; Dennis Anderson; Ryan Murdock, MD; Brian Snyder, MD
Boston Children's Hospital
Boston, MA, United States

#45

3:16 PM–3:20 PM

Effect of Scoliosis on Pulmonary Function in Spinal Muscle Atrophy (SMA)

Taylor Marie Adams, BS; Patricia Miller, PhD; Lennert Plasschaert, MD, MMSc; Ron El-Hawary, MD, MSc; Basil Darras; Robert Graham; **Brian Snyder, MD**
Boston Children's Hospital
Boston, MA, United States

3:21 PM–3:29 PM Discussion

SESSION 3B. SPORTS:
PATELLOFEMORAL INSTABILITY,
CARTILAGE LESIONS, AND
ACL RECOVERY

2:15 PM–3:30 PM

Moderators: Jennifer Beck, MD & Corinna Franklin, MD

2:15 PM–2:17 PM Introduction

#46

2:18 PM–2:22 PM

Prediction of Contralateral Patellar Instability After Ipsilateral Medial Patellofemoral Ligament Reconstruction

Ali Asma; Samir Sharrak; Marcus Shelby, MD; Matthew Veerkamp; Shital Parikh, MD, FACS
Cincinnati Children's Hospital
Medical Center
Cincinnati, OH, United States

#47

2:23 PM–2:27 PM ★

Medial Patellofemoral Ligament Reconstruction With Partial Patellar Tendon Medialization: A Low-Morbidity Alternative to Tibial Tubercle Osteotomy

Tyler Stavinocha, MD; Jonas Ravich; Rhianna Little, MD
Christus Children's Hospital
San Antonio, TX, United States

#48

2:28 PM–2:32 PM

Autograft Versus Allograft In Isolated Medial Patellofemoral Ligament Reconstruction for Patellofemoral Instability In Adolescents

Lasun Oladeji; Honor Paine; Matthew Veerkamp; Natalie Pahapill; Benton Heyworth, MD; Henry Ellis, MD; Daniel Green, MD; Eric Wall, MD; Philip Wilson, MD; Beth Shubin Stein; **Shital Parikh, MD, FACS**

Cincinnati Children's Hospital Medical Center
Cincinnati, OH, United States

2:33 PM–2:41 PM Discussion

#49

2:42 PM–2:46 PM

The Lateral Trochlea Anterior Condyles Angle (Ltac) To Quantify Trochlear Dysplasia

Jason Brenner; Steven Henick; Mohamed Said; Leila Mehraban Alvandi, PhD; Edina Gjonbalaj; Yungtai Lo; Jacob Schulz, MD; Eric Fornari, MD; Benjamin Levy; **Mauricio Drummond, MD**

Montefiore Einstein
Bronx, NY, United States

#50

2:47 PM–2:51 PM

Agree to Disagree: Comparing Diagnostic Agreement Between Various Patellar Height Ratios Used in Adolescent Patients

Stone Streeter; Caroline Kim; Martha Kebeh; Sulagna Sarkar; John Schlechter, DO; Lauren Redler; Sean Waldron, MD; Megan Kuba, MD; Elise Bixby; Eileen Crawford; Stephanie Logterman, MD; Matthew Veerkamp; Shital Parikh, MD, FACS; **Brendan Williams, MD;** PRISM PF-RIG

Children's Hospital of Philadelphia
Philadelphia, PA, United States

#51

2:52 PM–2:56 PM

A Radiographic Predictive Model for Distinguishing Mobile Trap Door Vs Locked Door Osteochondritis Dissecans Lesions of The Knee

Matthew Milewski, MD; Patricia Miller, PhD; Emma Gossman; Marc Tompkins; Greg Myer; The ROCK Group
Boston Children's Hospital
Boston, MA, United States

2:57 PM–3:05 PM Discussion

#52

3:06 PM–3:10 PM

Clinical and Radiologic Outcomes of Matrix-Induced Autologous Chondrocyte Implantation in Pediatric Patients With Knee Cartilage Defects

Matthew Frederickson; Lydia McKeithan; Nicholas Stamatatos; Michelle Scott; Christopher Fernainy; **Brian Haus, MD**

University of California, Davis
Sacramento, CA, United States

#53

3:11 PM–3:15 PM

Return to Impact and Athletic Activities During Treatment of Stable Osteochondritis Dissecans Lesions of the Knee

Pranav Rajaram; Samuel Rosenberg; **Eileen Crawford**
University of Michigan
Ann Arbor, MI, United States

#54

3:16 PM–3:20 PM

Adolescent Females Meet Return to Sport Criteria at Lower Rates Than Males 9 Months Post-ACL Reconstruction

Mia Caminita; Samantha Collins; Kevin McGuinness; Jack Parker; Samantha Allen; Chelsey Bowman; **Emily Niu, MD**
Children's National
Washington DC, United States

3:21 PM–3:29 PM Discussion

SESSION 3C. CONGENITAL FOOT DEFORMITIES: FROM COALITIONS TO CLUBFOOT

2:15 PM–3:30 PM

Moderators: Jaime Rice Denning, MD, MS & Maryse Bouchard, MD, MSc, FRCSC

2:15 PM–2:17 PM Introduction

#55

2:18 PM–2:22 PM

Factors Associated With Unplanned Surgery Following Tarsal Coalition Resection: A Multicenter Study

Muhammad-Amin Munshi; Rohit Siddabattula; Jaime Rice Denning, MD,

MS; Alexandre Arkader, MD; Derek Kelly, MD, FAAOS, FAOA; Emily Cidambi, MD; Coleen Sabatini, MD, MPH; Alpesh Kothari, MA, BM, BCh, AFHEA, MSc, DPhil, FRCS; Mike Tretiakov, MD; Maryse Bouchard, MD, MSc, FRCSC; **Pooya Hosseinzadeh, MD;** PediFoRG
Washington University in St. Louis
St. Louis, MO, United States

#56

2:23 PM–2:27 PM

Outcomes of Minimally Invasive Versus Open Surgeries for Juvenile Hallux Valgus: A Multicenter Retrospective Study

Samhita Kadiyala; Winnie Tzu-Hsuan Lin; Haley Leider; Rusty Hartman; Christian Delayun; Sang Won Lee; Patricia Miller, PhD; Anthony Riccio, MD; Maryse Bouchard, MD, MSc, FRCSC; **Collin May, MD, MPH**
Boston Children's Hospital
Boston, MA, United States

#57

2:28 PM–2:32 PM

Factors Associated With Pain Following Tarsal Coalition Resection: A Multicenter Study

Muhammad-Amin Munshi; Rohit Siddabattula; Jaime Rice Denning, MD, MS; Alexandre Arkader, MD; Derek Kelly, MD, FAAOS, FAOA; **Emily Cidambi, MD;** Coleen Sabatini, MD, MPH; Alpesh Kothari, MA, BM, BCh, AFHEA, MSc, DPhil, FRCS; Mike Tretiakov, MD; Maryse Bouchard, MD, MSc, FRCSC; Pooya Hosseinzadeh, MD; PediFoRG
Washington University in St. Louis
St. Louis, MO, United States

2:33 PM–2:41 PM Discussion

#58

2:42 PM–2:46 PM

Can We Predict Need for Forefoot Narrowing Surgery in Split Foot Malformation? A Multicenter Review

Grace Markowski; Shelby White; David Westberry, MD; **Janet Walker, MD**
Shriners Children's Lexington
Lexington, KY, United States

#59

2:47 PM–2:51 PM

Surgical Treatment of Isolated Macrodactyly of the Foot: A 30-year Single-Site Study

Leslie Yuen; Patricia Miller, PhD; Winnie Tzu-Hsuan Lin; Susan Mahan, MD, MPH; Samantha Spencer, MD; James Kasser, MD; **Collin May, MD, MPH** Boston Children's Hospital Boston, MA, United States

#60

2:52 PM–2:56 PM

Classification For Surgical Decision-Making In Postaxial Polydactyly Of The Foot

Siang Hsu; Chia-Hsieh Chang, MD, PhD; Kai Yuan Cheng; Shih-Chia Jason Liu, MD E-Da Hospital Kaohsiung, Taiwan

2:57 PM–3:05 PM

Discussion

#61

3:06 PM–3:10 PM

Longterm Function following Index Nonoperative Treatment for Infantile Idiopathic Clubfoot Deformity

Kelly Jeans; Daniela Marletta; Sara De Salvo; **Anthony Riccio, MD** Scottish Rite for Children Dallas, TX, United States

#62

3:11 PM–3:15 PM

Does Clubfoot Bracing Cause Rotational Malalignment of the Uninvolved Leg in Unilateral Clubfoot?

Cheryl Lawing, MD; Sonia Garg; Joel Aguilera Flores; Caroline Bailey; Jacob Bailey Shriners Children's Greenville Greenville, SC, United States

#63

3:16 PM–3:20 PM

Characterizing the Association of Clubfoot Treatment With Maternal Depression, Infant Bonding, and Parental Stress and their Impact on Bracing Adherence

Emily Gale; **Corey Gill, MD**; Rusty Hartman; Ayana Fairweather; Anthony Riccio, MD; Elizabeth Hubbard, MD; William Morris, MD Scottish Rite for Children Dallas, TX, United States

3:21 PM–3:29 PM

Discussion

SESSION 3D. CASE CONUNDRUMS IN THE PEDIATRIC UPPER EXTREMITY

2:15 PM–3:30 PM

Moderators: Donald Bae, MD & Christine Ho, MD

2:15 PM–2:17 PM

Introduction

Case 1

2:18 PM–2:20 PM

Isolated Radial Head Dislocation – Why Is It Special?

Saagar Patel; Muhayman Sadiq; Manickam Kumaravel; Rohini Vanodia; **Surya Mundluru, MD** The University of Texas Health Science Center at Houston Houston, TX, United States

2:21 PM–2:26 PM

Discussion

Case 2

2:27 PM–2:29 PM

Fracture to Forequarter: Pediatric Necrotizing Fasciitis Requiring Radical Surgical Source Control

Roy James; Alfred Kankam Jr.; **Caleb Grote, MD, PhD**; Kathryn Keeler, MD The Children's Mercy Hospital Kansas City, MO, United States

2:30 PM–2:35 PM

Discussion

Case 3

2:36 PM–2:38 PM

Irreducible Radial Head Dislocation Through a Split Brachialis Tendon

Errol Mortimer, MD; Andrea Bauer, MD UMass Memorial Health Worcester, MA, United States

2:39 PM–2:44 PM

Discussion

Case 4

2:45 PM–2:47 PM ★

Osteochondritis Dissecans (OCD) of the Humeral Head: A Pediatric Case Series

John Arvesen, MD; Antonia Dinulescu; Cody Todesco; Henry Ellis, MD Scottish Rite for Children Dallas, TX, United States

2:48 PM–2:53 PM

Discussion

Case 5

2:54 PM–2:56 PM

Varus Osteotomy for Proximal Humerus Partial Growth Arrest

Rachel Randall, MD Marshfield Clinic Marshfield, WI, United States

2:57 PM–3:02 PM

Discussion

Case 6

3:03 PM–3:05 PM

EPL Entrapment After Closed Reduction of Distal Radius Fracture

Bridget Ellsworth, MD Medical College of Wisconsin Milwaukee, WI, United States

3:06 PM–3:11 PM

Discussion

Case 7

3:12 PM–3:14 PM

Pediatric Coronoid-Deficient Elbow Reconstruction Using Iliac Crest Allograft: A Case Report

Mike Tretiakov, MD; Christian Shigley; Jonathan Yamaguchi Seattle Children's Hospital Seattle, WA, United States

3:15 PM–3:20 PM

Discussion

Case 8

3:21 PM–3:23 PM

Lateral Snapping Triceps Syndrome in an Adolescent Wrestler, Rare But Frequently Missed

Tyler Stavinocha, MD Christus Children's San Antonio, TX, United States

3:24 PM–3:29 PM

Discussion



**SESSION 4A. NEUROMUSCULAR:
LENGTHENING, RELEASES, AND
MUSCLE BIOLOGY**

4:00 PM–5:15 PM

**Moderators: M. Wade Shrader, MD &
Rachel Mednick Thompson, MD**

4:00 PM–4:02 PM Introduction

#64

4:03 PM–4:07 PM

**Guided Growth Fails to Reduce
Hip Displacement More Than Soft
Tissue Release Alone: A Prospective
Comparative Study In Spastic
Cerebral Palsy**

Cheng-Min Hsu; Szu-Yao Wang;
Hsuan-Kai Kao, MD; Chia-Hsieh
Chang, MD, PhD;
Chang Gung Medical Foundation
Taoyuan, Taiwan

#65

4:08 PM–4:12 PM

**The Association Between Anterior
Pelvic Tilt and Back Pain In Adults
With Cerebral Palsy**

Chris Church; Madison Lennon; Victoria
Hinchberger; Jose Salazar-Torres;
Nancy Lennon, MS, PT, DPT; **M. Wade
Shrader, MD**; Freeman Miller, MD;
Arianna Trionfo, MD; Jason Howard,
MD, FRCSC; Gait & Motion Analysis
Laboratory
Nemours Children's Health
Wilmington, DE, United States

#66

4:13 PM–4:17 PM

**A Decade Later: Health-Related
Quality of Life and Caregiver Burden
After Hip and Spine Surgery in
Children With Cerebral Palsy**

Rachel DiFazio, PhD, RN; Meghana
Venkatesh; Judith Vessey; Patricia
Miller, PhD; Benjamin Shore, MD, MPH,
FRCSC; Brian Snyder, MD
Boston Children's Hospital
Boston, MA, United States

4:18 PM–4:26 PM Discussion

#67

4:27 PM–4:31 PM

**Risk for Hip Displacement is
Associated With Etiology of
Cerebral Palsy**

Stacey Miller; Maria Juricic; Sharon
Shrestha; Ram Mishal; Vuong Nguyen;
**Kishore Mulpuri, MBBS, MHSc,
FRCSC**
BC Children's Hospital
Vancouver, BC, Canada

#68

4:32 PM–4:36 PM

**An Analysis of the Complications
in the Treatment of Knee Flexion
Contractures in Patients With
Arthrogryposis**

Aaron Huser, DO; Arun Hariharan,
MD, MS; Amanda Lobato;
David Feldman, MD
Paley Orthopedic & Spine Institute
West Palm Beach, FL, United States

#69

4:37 PM–4:41 PM

**Characterization of Glra1 Spasmodic
Mice as a Preclinical Model of
Neuromuscular Contracture**

(Terry) Haohui Fang; **Joshua Hyman,
MD**; Alice Huang; Varun Arvind
New York-Presbyterian/Columbia
University Irving Medical Center
New York, NY, United States

4:42 PM–4:50 PM Discussion

#70

4:51 PM–4:55 PM

**The Impact of "High Dose" Tendon
Achilles Lengthening Compared
to "Low Dose" Gastrocnemius
Recession for Equinus Correction on
Ankle Power Generation in Unilateral
Cerebral Palsy**

Zhe Yuan; M. Wade Shrader, MD;
Freeman Miller, MD; Chris Church;
John Henley; Jose Salazar-Torres; **Jason
Howard, MD, FRCSC**
Nemours Children's Health
Wilmington, DE, United States

#71

4:56 PM–5:00 PM

**Does Multi-Level Surgery Weaken
Muscles in Ambulatory Youth With
Cerebral Palsy?**

Hannah Scott; Stephanie Butler; Jose
Salazar-Torres; Chris Church; **Jason
Howard, MD, FRCSC**; M. Wade
Shrader, MD; Nancy Lennon, MS,
PT, DPT
Nemours Children's Hospital, Delaware
Wilmington, DE, United States

#72

5:01 PM–5:05 PM

**Stem Cell Populations in Muscle of
Children With CP Shows Pro-Fibrotic
Transcriptional State: A Single-Cell
RNA Sequencing Study**

Vedant Kulkarni, MD; Madison Stewart;
Lin-Ya Hu; Marie Villalba; Jon Davids,
MD; Yue Wang; Lucas Smith
Shriners Children's Northern California
Sacramento, CA, United States

5:06 PM–5:14 PM Discussion

**SESSION 4B. PRACTICE
IMPROVEMENT POTPOURRI:
INFECTION, PATHWAYS,
AND PEDAGOGY**

4:00 PM–5:15 PM

**Moderators: James Beaty, MD &
Michelle Caird, MD**

4:00 PM–4:02 PM Introduction

#73

4:03 PM–4:07 PM

**Preserving the Epiphysis: A
Modified Posterior Approach Without
Trochanteric Osteotomy for Pediatric
Posterior Hip Pathology Safely
Achieves Fixation Without
Avascular Necrosis**

Jonathan Schoenecker, MD, PhD;
Lauren Luther; Jeff Martus, MD;
Courtney Baker, MD
Vanderbilt University Medical Center
Nashville, TN, United States

#74

4:08 PM–4:12 PM

Noninferiority of Tractionless Hip Arthroscopy Compared With Arthrotomy for Children With Septic Arthritis

Adam Jamnik; Colby Wilkens; Naureen Tareen; Philip Wilson, MD; Henry Ellis, MD; **Lawson Copley, MD**
Scottish Rite for Children
Dallas, TX, United States

#75

4:13 PM–4:17 PM

Lower Socioeconomic Status is Associated With Higher Rates of Loss to Follow-Up and Incomplete Antibiotic Adherence in Pediatric Acute Hematogenous Osteomyelitis

Connor Park; Keith Brendes; Nicholas Williams; Jens Verhey; Cameron Morris; **Jessica Burns, MD, MPH**
Phoenix Children's Hospital
Phoenix, AZ, United States

4:18 PM–4:26 PM

Discussion

#76

4:27 PM–4:31 PM

Applying Systems Mapping to Pediatric Orthopaedic Surgical Procedures Facilitates Radical Reevaluation of Procedure Pack Utilization, Safety, & Waste

Laura Bellaire, MD
University of Utah Health
Salt Lake City, UT, United States

#77

4:32 PM–4:36 PM

The True Cost of Fracture Care: Comparing Surgeons and Advanced Practice Providers in the Treatment of Diaphyseal Forearm Fractures

Amanda Moser; Sayaka Mori; Thompson Zhuang; Sulagna Sarkar; Tyler Manning; Meaghan Lutts; Alison Lehman; Edward Dockery;

Apurva Shah, MD, MBA

Children's Hospital of Philadelphia
Philadelphia, PA, United States

#78

4:37 PM–4:41 PM

Reducing Unplanned Postoperative Emergency Department Visits in Pediatric Orthopedic Surgery: A Quality Improvement Study

Eddie Geagea; Cassandra Shriver; Kaitlin Maher, PA-C; John Lovejoy, MD; Mona Mathew; **Jason Malone, DO**
Nemours Children's Hospital, Florida
Orlando, FL, United States

4:42 PM–4:50 PM

Discussion

#79

4:51 PM–4:55 PM ◆

Accelerating Diagnostic Competency in Pediatric Musculoskeletal Radiograph Interpretation Among Orthopedic Post-Graduate Trainees

Carl Starvaggi; **Maryse Bouchard, MD, MSc, FRCSC**; Mark Camp, MD; Kristina Keitel; Kai Ziebarth; Sasha Carsen, MD, FRCSC; J. Mortimer, MD; Ryan Katchky, MD; Anthony Cooper, FRCS; Ron El-Hawary, MD, MSc; Neil Saran, MD; Jennifer Stimec; Martin Pusic; Kathy Boutis
The Hospital for Sick Children (SickKids)
Toronto, ON, Canada

#80

4:56 PM–5:00 PM

Evaluating the Effectiveness of a Structured Training Program for Orthopedic Advanced Practice Providers in Pediatric Distal Radius Fracture Reduction

Ambika Nair; Caroline Fay; Meg Bowen; Akbar Syed; Beverly Teti; **J. Todd Lawrence, MD, PhD**
Children's Hospital of Philadelphia
Philadelphia, PA, United States

#81

5:01 PM–5:05 PM

Systematic Remorse: ChatGPT and other LLMs Severely Underperform Traditional Systematic Reviews

Joseph Yellin, MD; Alex Gornitzky, MD; Brett Lullo, MD; **Raghav Badrinath, MD**
NYC Health + Hospitals/Jacobi
Bronx, NY, United States

5:06 PM–5:14 PM

Discussion

SESSION 4C. HAND/UPPER EXTREMITY: BRACHIAL PLEXUS, LIMB DIFFERENCES, AND OVERUSE ELBOWS

4:00 PM–5:15 PM

Moderators: Hilton Gottschalk, MD & Carley Vuillermin, FRACS, MBBS, MPH

4:00 PM–4:02 PM

Introduction

#82

4:03 PM–4:07 PM

Long-Term Functional Outcomes Following Tendon Transfers for Brachial Plexus Birth Injuries

Lainey Bukowiec; Emil Varas; William Shaughnessy, MD; Nicholas Pulos, MD
Mayo Clinic
Rochester, MN, United States

#83

4:08 PM–4:12 PM

Evaluating the Efficacy of Closed Reduction on Remodeling of the Glenohumeral Joint in Brachial Plexus Birth Palsy

Justin Choy; **Andrea Tian**; Matthew Ditzler; Chris Stutz, MD
Scottish Rite for Children
Dallas, TX, United States

#84

4:13 PM–4:17 PM

Long-term Evaluation of Free Fibular Flap in Extremity Bony Reconstruction

Justin Choy; Rusty Hartman; David Podeszwa, MD; **Scott Oishi, MD, FACS**
Scottish Rite for Children
Dallas, TX, United States

4:18 PM–4:26 PM

Discussion

#85

4:27 PM–4:31 PM

Visible and Hidden Differences: A Multi-Dimensional Exploration of Function and Well-being in Children With Congenital Upper Limb Differences

Hannah Young; Patricia Miller, PhD; Lindley Wall, MD; Brittany Garcia; Suzanne Steinman, MD; Mary Claire Manske, MD; Deborah Bohn, MD; Nina Lightdale-Miric, MD; **Donald Bae, MD**; CoULD Study Group
Boston Children's Hospital
Boston, MA, United States



#86

4:32 PM–4:36 PM

Pediatric Digital Replantation and Revascularization Surgery: A Multicenter Experience of Failure Rates and Perioperative Care

Brittany Garcia; Lindley Wall, MD; Micah Sinclair, MD; Gretchen Maughan-Egbert; Shannon Tse; Sarah Ishamuddin; Angela Wang
University of Utah Health
Salt Lake City, UT, United States

#87

4:37 PM–4:41 PM

Hidden in Plain Sight: Incidence and Risk Factors of Scaphoid Fractures in Children With Suspected Fracture but Negative Screening Radiographs

Simon Blanchard; Stone Streeter; Dev Laungani; Sayaka Mori; Edward Dockery; Sulagna Sarkar; **Mary Claire Manske, MD**; Apurva Shah, MD, MBA
Children's Hospital of Philadelphia
Philadelphia, PA, United States

4:42 PM–4:50 PM

Discussion

#88

4:51 PM–4:55 PM

Tumbling Athletes Exhibit the Highest Risk of Bilateral Elbow Osteochondritis Dissecans: A Call for Targeted Screening

Brendon Mitchell; Kevin Landrum; Gavin Rallis; Stone Streeter; Monika Thothadri; Casey Kuka; Rishika Pasula; Akbar Syed; Joseph Yellin, MD; Apurva Shah, MD, MBA; Theodore Ganley, MD; J. Todd Lawrence, MD, PhD
Children's Hospital of Philadelphia
Philadelphia, PA, United States

#89

4:56 PM–5:00 PM

Rethinking Little Leaguer's Elbow: Are Radiographs Missing the Real Injury?

Jacob Jones, MD; Kate Lampe; Charles Wyatt, NP; Philip Wilson, MD
Scottish Rite for Children
Dallas, TX, United States

#90

5:01 PM–5:05 PM

Growth Rate of Distal Radial and Ulnar Physes

Christopher Souder, MD; Abigail Arnold; Emma Wadsworth; James Bomar, MPH; **Andrew Pennock, MD**
Rady Children's Health
San Diego, CA, United States

5:06 PM–5:14 PM

Discussion

SESSION 4D. CASE REPORTS: TUMOR, INFECTION, AND SYNDROMIC DEFORMITY

4:00 PM–5:15 PM

Moderators: Gregory Mencio, MD & Alexandre Arkader, MD

4:00 PM–4:02 PM

Introduction

Case 9

4:03 PM–4:05 PM

Rare Variant of Congenital Insensitivity to Pain Presenting With Femoral Osteotomy Nonunion

Jeff Martus, MD
Vanderbilt University Medical Center
Nashville, TN, United States

4:06 PM–4:11 PM

Discussion

Case 10

4:12 PM–4:14 PM

Embolization of a Bone Void Filler After Injection Into a Unicameral Bone Cyst—A Cautionary Tale!

Mihir Thacker, MD; Jai Thacker
Nemours Children's Hospital, Delaware
Wilmington, DE, United States

4:15 PM–4:20 PM

Discussion

Case 11

4:21 PM–4:23 PM ★

The Use of External Fixators and Extreme Joint Positioning in the Management of Soft Tissue Trauma in Children

Peter Apel, MD
Virginia Tech Carilion
Roanoke, VA, United States

4:24 PM–4:29 PM

Discussion

Case 12

4:30 PM–4:32 PM

Modified Trapdoor Technique for Excision of a Femoral Head Chondroblastoma using Intraoperative Three-Dimensional Navigation: Technique and Results of a Low-Dose Radiation Protocol

John Kelly; Lainey Bukowiec; Quinn Johnson; Travis Turner; Austen Thompson; David Clark; Paola Rullan

Oliver; **Emmanouil (Manos)**

Grigoriou, MD

Mayo Clinic
Rochester, MN, United States

4:33 PM–4:38 PM

Discussion

Case 13

4:39 PM–4:41 PM

Two Left Legs Don't Make a Right: Surgical Management of a Congenital Limb Duplication

Nicole Montgomery, MD; Paige Wheaton, PA-C
Texas Children's Hospital
Houston, TX, United States

4:42 PM–4:47 PM

Discussion

Case 14

4:48 PM–4:50 PM

Blounts Lesion Resection With Simultaneous Intra-epiphyseal Osteotomy for Advanced Infantile Tibia Vara

Christopher Souder, MD
Rady Children's Health
San Diego, CA, United States

4:51 PM–4:56 PM

Discussion

Case 15

4:57 PM–4:59 PM

Safety and Feasibility of the Triple Pelvic Osteotomy Combined With Acetabuloplasty for Adolescent Neuromuscular Hip Dysplasia (ANHD) With a Steep Acetabulum: A Novel Modification

Muharrem Yazici, MD; Rafik Ramazanov; Ulas Kolac; Guney Yilmaz
Hacettepe University Hospitals
Ankara, Turkey

5:00 PM–5:05 PM

Discussion

Case 16

5:06 PM–5:08 PM

Defying the Odds: Survival in Severe Prenatal Caffey's Disease

Ryan McIlwain; Andrew Heflin; Sharon Maina; William Cutchen, MD; **Tyler McDonald, MD**
University of South Alabama
Mobile, AL, United States

5:09 PM–5:14 PM

Discussion

**SESSION 5A. SPINE:
EVOLUTION OF AIS CARE—FUSION
STRATEGIES TO TETHERING**

8:00 AM–9:40 AM

Moderators: Allen Kadado, MD & Ying Li, MD

8:00 AM–8:04 AM Welcome

#91

8:05 AM–8:09 AM

The Lumbar Response to Selective Thoracic Fusion in Patients With Open Triradiate Cartilage and Compensatory Lumbar Curves

Scott Yang, MD; Bailey Ingalls; Jennifer Bauer, MD, MS; Paul Sponseller, MD, MBA; Suken Shah, MD; Peter Newton, MD; Burt Yaszay, MD; Harms Study Group
Seattle Children's Hospital
Seattle, WA, United States

#92

8:10 AM–8:14 AM

Thoracic Compensation After Pediatric Lumbar Spinal Fusion: Adaptations in the Sagittal Plane

Eshan Sane; Jake Goldfarb; Christian Wright; Nicholas Speller; Gabriel Boebel; Ling Chen; Simon Tang; Michael Kelly, MD; **Blake Montgomery, MD**
Washington University in St. Louis
St. Louis, MO, United States

#93

8:15 AM–8:19 AM

Saving Fusion Levels in Lenke 1/2-AR Curves: Can We Stop Short of the Last Substantially Touched Vertebra (LSTV)?

Michael Brown; Tracey Bryan, MA; David Feldman, MD; Craig Louer, MD; John Vorhies, MD; Joshua Murphy, MD; Keith Bachmann, MD; Robert Cho, MD; Peter Gabos, MD; Amit Jain, MD; Baron Lonner, MD; Firoz Miyanji, MD, FRCSC; Amer Samdani, MD; Suken Shah, MD; Michael Patrick Kelly, MD; Peter O. Newton, MD; Harms Study Group; **Arun Hariharan, MD, MS;** Harms Study Group
Paley Orthopedic & Spine Institute
West Palm Beach, FL, United States

8:20 AM–8:28 AM

Discussion

#94

8:29 AM–8:33 AM

Revisions for Pseudoarthrosis in Adolescent Idiopathic Scoliosis: Strategies and Outcomes from a Multicenter Registry

Alex La Poche; Amit Jain, MD; Amer Samdani, MD; John Vorhies, MD; Arun Hariharan, MD, MS; Peter Gabos, MD; Peter Newton, MD; Burt Yaszay; **Craig Louer, MD;** Harms Study Group
Vanderbilt University Medical Center
Nashville, TN, United States

#95

8:34 AM–8:38 AM

Rethinking the Gold Standard: Mesenchymal Stem Cells, Not Osteoblasts, Drive Iliac Crest Graft Efficacy Via Endochondral Ossification in Spine Fusion

Jonathan Schoenecker, MD, PhD; DUBY Okonkwo; Rachel McKee; J. Court Reese; **Craig Louer, MD**
Vanderbilt University Medical Center
Nashville, TN, United States

#96

8:39 AM–8:43 AM

Comparing Sagittal Profiles in Adolescent Deformity Patients Undergoing Posterior Fusion With Patient-Specific Precontoured Versus Manually Contoured Rods

Matthew Miyasaka; Kingsley Ogelle; Alexander Kucherina; Constance Maglaras; Themistocles Protopsaltis; **Juan Carlos Rodriguez Olaverri**
NYU Langone Health
New York City, NY, United States

8:44 AM–8:52 AM

Discussion

#97

8:53 AM–8:57 AM

Prospective, Multicenter Comparison of Hybrid and Bilateral VBT in the Treatment of Idiopathic Scoliosis

Firoz Miyanji, MD, FRCSC; Shaina Sim; Sager Hanna; Amer Samdani, MD; Baron Lonner, MD; Burt Yaszay, MD; Lawrence Haber, MD; Patrick Cahill, MD; Peter Newton, MD; Harms Study Group
BC Children's Hospital
Vancouver, BC, Canada

#98

8:58 AM–9:02 AM

Hybrid Constructs Vs Posterior Spinal Fusion in Lenke 3 and 6 AIS: Radiographic and Clinical Comparison With ≥2-Year Follow-Up

Mina Eskandar; Alexandra Yiachos; Alexander Kucherina; Garima Paul; Constance Maglaras; Themistocles Protopsaltis; Tina Raman; **Juan Carlos Rodriguez Olaverri**
NYU Langone Health
New York City, NY, United States

#99

9:03 AM–9:07 AM

Surgical Outcomes and Complications for Patients Undergoing Vertebral Body Tethering With a 5-8 Year Follow-Up

Rachelle Imbeault; Jesse Shen; Marie Beauséjour; Marjolaine Roy-Beaudry; Isabelle Turgeon; Soraya Barchi; **Stefan Parent, MD, PhD**
CHU Sainte-Justine
Montreal, QC, Canada

9:08 AM–9:16 AM

Discussion

#100

9:17 AM–9:21 AM

Growth Modulation After Vertebral Body Tethering Results in Similar Axial Correction to a Posterior Spinal Fusion

Melanie Boeyer, PhD; Dustin Kress; Stefan Parent, MD, PhD; Peter Newton, MD; Burt Yaszay, MD; Harms Study Group; **Daniel Hoernschemeyer, MD;** Harms Study Group
University of Missouri Health Care
Columbia, MO, United States

#101

9:22 AM–9:26 AM ♦

Outcomes of Vertebral Body Tethering in Adolescent Idiopathic Scoliosis: A Prospective, Multi-Center Study

Hans Nugraha, MD; Lawrence Haber, MD; Daniel Hoernschemeyer, MD; Patrick Cahill, MD; Amer Samdani, MD; Firoz Miyanji, MD, FRCSC; Peter Newton, MD; **A. Noelle Larson, MD;** Harms Study Group
Mayo Clinic
Rochester, MN, United States

♦ Research supported by POSNA grant

#102

9:27 AM–9:31 AM

Reliability of Vertebral Pelvic Angles in Pediatric Idiopathic Scoliosis Patients

Nicholas Collar; Michael Kelly, MD; Bryan Menapace, MD, MBA; Miran Stubican; Ashley Pikero; **Chinmay Paranjape, MD, MSc**
Shriners Children's Portland
Portland, OR, United States

9:32 AM–9:40 AM

Discussion

**SESSION 5B. SPORTS:
ACL AND MENISCUS**

8:00 AM–9:40 AM

Moderators: Andrew Pennock, MD & Melissa Christino, MD

8:00 AM–8:04 AM

Welcome

#103

8:05 AM–8:09 AM

Subsequent Isolated Meniscus Tears Following Pediatric Anterior Cruciate Ligament Reconstruction as an Indicator of Graft Failure: An Assessment of Hamstring and Quadriceps Tendon Autografts

Morgan Swanson; Kevin Landrum; Christopher DeFrancesco, MD; Sulagna Sarkar; **Kathleen Maguire, MD**
Children's Hospital of Philadelphia
Philadelphia, PA, United States

#104

8:10 AM–8:14 AM

Pediatric Anterior Cruciate Ligament Reconstruction Using at Least 6-Strand Hamstring Tendon Autograft Is Associated with Lower Failure Rates: A Retrospective Comparative Study

Maxime Cote, MD; Stephane Pelet; Ludovic Boucher Grenon
Centre mère-enfant Soleil
Quebec City, QC, Canada

#105

8:15 AM–8:19 AM

Anterior Cruciate Ligament Concomitant Injury Complexity Worsens With Surgical Delay in Pediatric and Adolescent Patients

Jack Parker; Mia Caminita; Chelsey Bowman; **Syed Ahmed, MD**; Emily Niu, MD
Children's National
Washington, DC, United States

8:20 AM–8:28 AM

Discussion

#106

8:29 AM–8:33 AM

A Novel Technique for Adolescent ACL Revision Reconstruction Using IT Band Augmentation: A Multicenter Case Series

Cassidy Shields, MD; James Bomar, MPH; **Matthew Ellington, MD**; Andrew Pennock, MD
The University of Texas at Austin - Dell Medical School
Austin, TX, United States

#107

8:34 AM–8:38 AM

Lateral Extra-articular Tenodesis Does Not Alter Gait Biomechanics After ACL Reconstruction in a Pediatric Population: A Motion Analysis Study

Anton Manitiu; David Mazy; Alexia Bayol; Nicola Hagemeister; **Marie-Lyne Nault, MD, PhD**
CHU Sainte-Justine
Montreal, QC, Canada

#108

8:39 AM–8:43 AM

Return-to-Sport Functional Testing Does Not Predict Graft Rupture in Pediatric ACL Reconstruction

Soroush Baghdadi, MD; Christopher Hamad; Kole Joachim; Esther Chung; Richard Bowen, MD
UCLA Health
Los Angeles, CA, United States

8:44 AM–8:52 AM

Discussion

#109

8:53 AM–8:57 AM

Baseline Lower Extremity Coronal Plane Alignment in Pediatric and Adolescent Patients With ACL Tears Compared to a Control Population

Joshua Bram; Samuel Beber; Sarah Lu; Nicolas Pascual-Leone; Daniel Green, MD; **Peter Fabricant, MD, MPH**
Hospital for Special Surgery
New York, NY, United States

#110

8:58 AM–9:02 AM

Which Adolescent Is at Danger of a Contralateral ACL Injury After Treatment for Their First Primary ACL Reconstruction?

Michael Kutschke, MD; Benjamin Johnson; Benjamin MacDonald; Bobby Van Pelt, MPH; Charles Wyatt, NP; Philip Wilson, MD; Henry Ellis, MD
Scottish Rite for Children
Dallas, TX, United States

#111

9:03 AM–9:07 AM

There Is a Difference in Preoperative Standing Knee Femorotibial Rotation in Pediatric Patients With Anterior Cruciate Ligament Rupture Versus Patients With Patellofemoral Instability

Danielle Chipman; Shae Simpson; Nicolas Pascual-Leone; Preston Gross; Emilie Lijesen; Alexandra Aitchison; **Olivia Tracey**; Ariana Matarangas; Roger Widmann, MD; Peter Fabricant, MD, MPH; Daniel Green, MD
Hospital for Special Surgery
New York, NY, United States

9:08 AM–9:16 AM

Discussion

#112

9:17 AM–9:21 AM

Incidence, Complication, and Failure Rates of Bucket-Handle Meniscus Tears in Pediatric and Adolescent Population: A Multicenter Sports Cohort Outcomes Registry (SCORE) Study

Joonoh Lee; Keinan Agonias; Bobby Van Pelt, MPH; Benton Heyworth, MD; Eric Edmonds, MD; Matthew Milewski, MD; Donna Pacicca, MD; Philip Wilson, MD; Kevin Shea, MD; **Henry Ellis, MD**; Members of the SCORE Quality Improvement Registry
Scottish Rite for Children
Dallas, TX, United States



#113

9:22 AM–9:26 AM

A Novel Approach to Segmental Meniscus Repair – Can We Improve Biomechanical Performance of Meniscus Transplants and Reduce the Risk of Extrusion?

Akbar Syed; Hisham Omar; Kevin Landrum; Jacob Sommer; Kevin Shea, MD; Michael Hast; **Theodore Ganley, MD**

Children's Hospital of Philadelphia
Philadelphia, PA, United States

#114

9:27 AM–9:31 AM

Peripheral Rim Instability in Discoid Lateral Menisci: Epidemiology and Treatment from >1000 Discoid Meniscus

Smaran Garlapati; Keinan Agonias; Bobby Van Pelt, MPH; Rachel Silverstein, MD; **Scott McKay, MD**; Matthew Brown, MD; Philip Wilson, MD; Kevin Shea, MD; Henry Ellis, MD; Members of the SCORE Quality Improvement Registry
Scottish Rite for Children
Dallas, TX, United States

9:32 AM–9:40 AM

Discussion

SESSION 5C. HIP: PERTHES TO PAO—EVOLVING STRATEGIES IN HIP PRESERVATION

8:00 AM–9:40 AM

Moderators: Young Jo Kim, MD & Stephanie Pun, MD

8:00 AM–8:04 AM

Welcome

#115

8:05 AM–8:09 AM

Long-Term Radiographic Outcomes of Patients With Legg-Calvé-Perthes Disease With Onset Before Age Six Re-visited

Jessica Cao; Sachi Kishinchandani; Joonoh Lee; Michael Kang; John Anthony "Tony" Herring, MD, FRCS; **Harry Kim, MD**
Scottish Rite for Children
Dallas, TX, United States

#116

8:10 AM–8:14 AM

Not Quite Perthes, but Not Quite Meyer: Characterizing Another Form of Epiphyseal Ossification Irregularity in Growing Hips

Stone Streeter; Olivia Ullmann; **Wudbhav Sankar, MD**
Children's Hospital of Philadelphia
Philadelphia, PA, United States

#117

8:15 AM–8:19 AM

Predictors of Femoral Head Shape in Patients With Legg-Calvé-Perthes Disease With Onset Age Under 6 Years

Zhe Yuan; Sadettin Ciftci; Cenk Ermutlu; William Morris, MD; Jennifer Laine, MD; Susan Novotny, PhD; Harry Kim, MD; **Mihir Thacker, MD**; International Perthes Study Group
Nemours Children's Health
Wilmington, DE, United States

8:20 AM–8:28 AM

Discussion

#118

8:29 AM–8:33 AM

Radiographic Outcomes of Triple Osteotomy for Severe Legg-Calvé-Perthes Disease

Amy Behman, MD; Kai Ziebarth
Kinderklinik Inselspital Bern
Bern, Switzerland

#119

8:34 AM–8:38 AM

Does Early-Stage Perfusion MRI Correlate with Femoral Head Deformity In Children Between 6 and 8 Years of Age with Legg-Calvé-Perthes Disease Treated with Surgical Containment? - International Multicenter Prospective Study

Hitesh Shah, MD; Candelaria Mercado; William Morris, MD; **Jennifer Laine, MD**; Derek Kelly, MD, FAAOS, FAOA; Wudbhav Sankar, MD; Benjamin Martin, MD, MBA; Harry Kim, MD; International Perthes Study Group
Scottish Rite for Children
Dallas, TX, United States

#120

8:39 AM–8:43 AM

Determination of Modified Waldenström Staging in Legg-Calvé-Perthes Disease Using Deep Learning

Joshua Bram; Seong Jun Jang; Carter Hall; Martha Kebeh; Omar Shareef; **Christopher DeFrancesco, MD**; Jennifer Laine, MD; Wudbhav Sankar, MD
Children's Hospital of Philadelphia
Philadelphia, PA, United States

8:44 AM–8:52 AM

Discussion

#121

8:53 AM–8:57 AM

Patient Reported Outcomes Following Periacetabular Osteotomy for Acetabular Dysplasia: A Retrospective Review of a Prospectively Maintained Registry With Mid-Term Analysis of 306 Procedures

Helena Franco; Grant Hogue, MD; **Michael Millis, MD**
Boston Children's Hospital
Boston, MA, United States

#122

8:58 AM–9:02 AM

Behind the Eight Ball: Prior Operative Treatment of Childhood Developmental Dysplasia of the Hip Is Associated With Poorer Outcomes Following Periacetabular Osteotomy
William Morris, MD; Keinan Agonias; Wudbhav Sankar, MD; Stephanie Pun, MD; Rachel Goldstein, MD; Andrea Spiker; Travis Matheney, MD; Academic Network for Conservational Hip Outcomes Research (ANCHOR)
Scottish Rite for Children
Dallas, TX, United States

#123

9:03 AM–9:07 AM

Does Previous Childhood Hip Surgery Limit Functional Outcome for a Periacetabular Osteotomy in Adolescents?

Daniel Sucato, MD, MS; Miranda Aman; James Ogbeide; Lauren Osborne; David Podeszwa, MD; William Morris, MD; Kelly Jeans; Laura Mayfield, MPH
Scottish Rite for Children
Dallas, TX, United States

9:08 AM–9:16 AM

Discussion

#124

9:17 AM–9:21 AM

Natural History of Acetabular Changes in Patients With Perthes Disease and the Effect of Pelvic Osteotomy in Remodeling

Arif Çakar; Bartu Sarisozen; **Cenk Ermutlu**; Adnan Çakar; Adnan Kantarcı
Uludag University
Bursa, Turkey

#125

9:22 AM–9:26 AM

In-Situ Pinning for Slipped Capital Femoral Epiphysis: Conversion to Hip Arthroplasty and Patient Reported Outcomes at Long-Term 20 Years Follow Up

Paola Rullan Oliver; Quinn Johnson; Emil Varas; A. Noelle Larson, MD; **Todd Milbrandt, MD**; Anthony Stans, MD; Emmanouil (Manos) Grigoriou, MD
Mayo Clinic
Rochester, MN, United States

#126

9:27 AM–9:31 AM

Which Factors are Associated With Delayed Diagnosis of Slipped Capital Femoral Epiphysis?

Arun Movva; Emily DeMaio; Ilona Lukina; Bryce Maxwell; Romie Gibly, MD, PhD; **Neeraj Patel, MD, MPH**
Ann & Robert H. Lurie Children's Hospital of Chicago
Chicago, IL, United States

9:32 AM–9:40 AM

Discussion

12:45 PM–2:15 PM

Forging Connections: POSNA Community Surgeons' Social

Jennifer Beck, MD;
Justin Roth, DO

HALL OF FAME/SPECIAL EFFORT & EXCELLENCE AWARD

11:00 AM–11:14 AM

Introduction of POSNA Hall of Fame Inductees

Kevin Shea, MD

11:15 AM–11:19 AM

Presentation of Special Effort & Excellence Award

Kevin Shea, MD



BREAKOUT SESSION

5D. NEGOTIATION STRATEGIES FOR THE PEDIATRIC ORTHOPAEDIC SURGEON

8:00 AM–9:40 AM

Chairs: Laurel Blakemore, MD & Kevin Shea, MD

This is a skills-based workshop equipping surgeons with practical negotiation strategies—from contracts to capital purchases to research support. Participants will learn how to structure proposals and advocate for institutional investment at every career stage.

8:00 AM–8:03 AM

Introduction

Laurel Blakemore, MD

The Hospital and the PediPod

8:04 AM–8:09 AM

C-Suite Perspective: What the Executive Team Wants You to Know

Daniel Podberesky, MD,
FACR, FSAR

8:10 AM–8:15 AM

Negotiating Job Contracts

Julie Samora, MD, PhD, MPH

8:16 AM–8:21 AM

Securing Research/QI Support: Leveraging Hospital Funds, Endowments, and Philanthropy

Martha Murray, MD

8:22 AM–8:27 AM

Negotiating for Clinical Resources

David Skaggs, MD, MMM

8:28 AM–8:33 AM

Negotiating Your Leadership Package

James Sanders, MD

8:34 AM–8:49 AM

Roundtable Discussion

Advocating in the Bigger Picture

8:50 AM–8:56 AM

Making the Case for Capital Purchases

Kevin Shea, MD

8:57 AM–9:02 AM

Negotiating for Patient Support: Advocating Mental Health and Psychosocial Services

Corinna Franklin, MD

9:03 AM–9:08 AM

Advocating for Sustainability: How to Make the Case at Your Institution

Laura Bellaire, MD

9:09 AM–9:14 AM

Securing Support at the Specialty Society Level

Michael Vitale, MD

9:15 AM–9:30 AM

Roundtable Role Play: Capital Expenditure

9:31 AM–9:38 AM

Questions & Strategy Summaries

9:39 AM–9:40 AM

Final Comments

Kevin Shea, MD

**11:20 AM–12:25 PM**11:20 AM–11:24 AM
Introduction to Lead Like Lori Lecture11:25 AM–12:25 PM
Lead Like Lori Lecture*Joan Higginbotham***Donate
Now!**[Click Here](#)

In 2022, we tragically lost one of the greats of the pediatric orthopaedic community. Dr. Lori Karol was a friend and mentor to many and an inspiration to all. Her distinguished career includes the devoted care of many children with complex issues, landmark research, and the training of countless young surgeons. She was not only a trailblazer but excelled at fostering conversations and connections among POSNA members. As the first female president of POSNA, she not only brought decades of experience but also diversity to the senior leadership and had a hand in welcoming many into POSNA.

After Dr. Karol's passing, POSNA created the Lead Like Lori Lecture Series. Funded by donations in her honor, POSNA has been able to secure inspiring speakers for leadership lectures at the Annual Meeting. In 2025, POSNA extended the lecture series from 3 to 5 years, with speakers at the 2026 and 2027 Annual Meetings.

Support the Lead Like Lori Initiatives in Recognition of Dr. Lori Karol

Your donations are used to help support the Lead Like Lori lecture series and future program initiatives.

[Click here](#) to donate.

LEAD LIKE LORI

We are excited to welcome **Joan Higginbotham** as this year's speaker for our Lead Like Lori Lecture. Joan Higginbotham is a retired NASA astronaut and trailblazing electrical engineer who became the third African American woman to travel into space aboard Space Shuttle Discovery in 2006. During the nearly 13-day mission, the seven-member crew continued construction of the International Space Station, embarking on four space walks with Higginbotham operating the station's robotic arm. With a distinguished 20-year career with NASA and more than 308 hours in space, Higginbotham brings powerful lessons on leadership, perseverance, and thriving in high-stakes, team-driven environments. Following her astronaut career, she held senior leadership roles across aerospace and Fortune 500 companies before launching her own firm, Joan Higginbotham Ad Astra LLC. Widely recognized for her accomplishments, she continues to inspire audiences by sharing her journey of breaking barriers to boldly go where few have gone: space.

*“Connecting with
colleagues and
discussing the topics
presented is always one
of the most rewarding
parts of the meeting.”*

James Engels, MD



PRESIDENTIAL SPEAKER

8:00 AM–8:20 AM

8:00 AM–8:04 AM

Introduction of Presidential Speaker*Kevin Shea, MD*

8:05 AM–8:20 AM

Presidential Speaker*Steven Frick, MD*

SESSION 6. AWARD-NOMINATED PAPERS PART 1

8:20 AM–10:00 AM

Moderators: Daniel Sucato, MD, MS & Roger Cornwall, MD

8:21 AM–8:23 AM Introduction

#127

8:24 AM–8:29 AM

Postoperative Outcomes of Ponte-osteotomies Vs No Osteotomies in the Treatment of Adolescent Idiopathic Scoliosis (AIS) – A Randomized Clinical Trial**Matti Ahonen, MD, PhD;** Jenni Katariina Jalkanen; Ilkka Helenius, MD, PhD, Professor
HUS Helsinki University Hospital
Helsinki, Finland

#128

8:30 AM–8:35 AM

Effects of Three-year Daily Calcium and Vitamin D Supplementation in Adolescent Idiopathic Scoliosis – A Randomised Double-blinded Placebo-controlled Trial**Adam Yiu-Chung Lau;** Kenneth Yang; Cheuk Kin Kwan; Lik Hang Hung, FRCS; Wayne Lee; Jack Cheng, MD; Tsz-Ping Lam, MBBS, FRCSE
The Chinese University of Hong Kong
CUHK, Hong Kong

8:36 AM–8:44 AM Discussion

#129

8:45 AM–8:50 AM ♦

Does Very Early Administration of Disease Modifying Therapy (DMT) Prevent Early Onset Scoliosis (EOS) in Young Children With Spinal Muscular Atrophy (SMA)**Hiroko Matsumoto, PhD;** Yuri Ota; Thomas Coleman; Lennert Plasschaert, MD; Joyce Huang; Amy Pasternak; Jason Anari, MD; Elena Losina; Robert Graham; Basil Darras; Patrick Cahill, MD; Brian Snyder, MD
Boston Children's Hospital
Boston, MA, United States

#130

8:51 AM–8:56 AM

Can Comprehensive Genomic Profiling Unravel the Genetic Architecture of Idiopathic Early-Onset Scoliosis?**Nao Otomo;** Yared Kidane; Anas Khanshour; Kristhen Atala; Behrooz Akbarnia, MD; Charles Johnston, MD; Amy McIntosh, MD; Jonathan Rios, PhD; Brandon Ramo, MD; Carol Wise, PhD
Scottish Rite for Children
Dallas, TX, United States

8:57 AM–9:05 AM Discussion

#131

9:06 AM–9:11 AM

Machine Learning (ML) in Intraoperative Neuromonitoring: Updated Model Integrating Hemodynamic Data Detects Changes 35 Minutes Earlier Than Clinical Teams**Varun Arvind;** Mehdi Elfilali; Madeline Monness; Erik Williams; Miles Bomback; Alexander Park; Michael Brown; Omar Taha; Matthew Weintraub; Teeda Pinyavat; Anil Mendiratta;
Michael Vitale, MD, MPH
New York-Presbyterian/Columbia University Irving Medical Center
New York, NY, United States

#132

9:12 AM–9:17 AM

Not all Irrigants Are Created Equal: Comparing the Efficacy of Irrigation Solutions Against Staphylococcal Biofilm Formed on Pedicle Screws and Sublaminar Bands**Patrick Nian;** Christina Chao; Isabella Marsh; Tyler Khilnani; Roger Widmann, MD; Alberto Carli; **Jessica Heyer, MD**
Hospital for Special Surgery
New York, NY, United States

9:18 AM–9:26 AM Discussion

#133

9:27 AM–9:32 AM

MEK Inhibition for Treating Skeletal RASopathies in Children**Nandina Paria;** David Podeszwa, MD; Meghan Wassell; Reuel Cornelia; Carol Wise, PhD; Jonathan Rios, PhD
Scottish Rite for Children
Dallas, TX, United States

#134

9:33 AM–9:38 AM

Inhibition of Pathologic SMAD4 Signaling Prevents Neuromuscular Contracture Formation**Varun Arvind;** **Joshua Hyman, MD;** Alice Huang
New York-Presbyterian/Columbia University Irving Medical Center
New York, NY, United States

#135

9:39 AM–9:44 AM

Exercise Produces Circulating Factors That Improve Cartilage Health: Implications for Pediatric Joint Injury and Repair**Benjamin Alman, MD, FRCSC;** Jing Xie
Duke University Health System
Durham, NC, United States

9:45 AM–9:57 AM Discussion



SESSION 7. AWARD-NOMINATED
PAPERS PART 2

10:30 AM–11:53 AM

Moderators: Jennifer Laine, MD & Suken Shah, MD

#136

10:30 AM–10:35 AM

Coronal Plane Alignment After Pre-Pubertal ACL Reconstruction: Results From the PLUTO Study Group*Joshua Bram; Meghan Whalen; Subrina Farah; Grace Saville; Dai Sugimoto; Daniel Green, MD; Mininder Kocher, MD, MPH; **Peter Fabricant, MD, MPH; PLUTO Study Group***
Hospital for Special Surgery
New York, NY, United States

#137

10:36 AM–10:41 AM

Skeletally Immature Patients Treated Nonoperatively After a First-time Patellar Dislocation without Recurrence – Are They Doing as Well as Those Who Had Surgery?*Robert Magnussen; Honor Paine; Matthew Veerkamp; Natalie Pahapill; Elizabeth Dennis; Audrey Wimberly; Eric Wall, MD; Philip Wilson, MD; Henry Ellis, MD; Daniel Green, MD; Benton Heyworth, MD; Beth Shubin Stein; **Shital Parikh, MD, FACS***
Cincinnati Children's Hospital Medical Center
Cincinnati, OH, United States

10:42 AM–10:50 AM Discussion

#138

10:51 AM–10:56 AM

Suture Bridge Fixation for Medial Femoral Condyle Osteochondritis Dissecans Demonstrates Comparable Healing Compared to Screw Fixation*Michael Kutschke, MD; Keinan Agonias; Charles Wyatt, NP; Benjamin Johnson; Henry Ellis, MD; **Philip Wilson, MD***
Scottish Rite for Children
Dallas, TX, United States

#139

10:57 AM–11:02 AM

OATS Harvesting From the Femoral Condyle Is Not Benign: Knee Outcomes After OATS vs. OCA for Elbow OCD in Children*Kevin Landrum; Brendon Mitchell; Stone Streeter; Kevin Xu; Apurva Shah, MD, MBA; J. Todd Lawrence, MD, PhD; Theodore Ganley, MD; **Joseph Yellin, MD***
Children's Hospital of Philadelphia
Philadelphia, PA, United States

11:03 AM–11:11 AM Discussion

#140

11:12 AM–11:17 AM

Proximal Femoral Varus Osteotomy Increases Revascularization of Femoral Head in the Early-Stage of Legg-Calvé-Perthes Disease: A Serial Perfusion MRI Study*Joonoh Lee; Ahan Mistry; **Harry Kim, MD***
Scottish Rite for Children
Dallas, TX, United States

#141

11:18 AM–11:23 AM

Antegrade Rigid Intramedullary Nailing of Tibial Diaphyseal Fractures in Adolescents With Open Proximal Tibial Physis: Does a Deformity Occur?***Mark Miller, MD;** Joshua Marino, BS; Zachary Meyer; Julia Sanders, MD; Benjamin Shore, MD, MPH, FRCSC; Maria Canizares, MD, MPH; Shanika De Silva; CORTICES Study Group*
Boston Children's Hospital
Boston, MA, United States

11:24 AM–11:32 AM Discussion

#142

11:33 AM–11:38 AM

Last to Fuse, First to Fail: A New Developmental Paradigm for the Acetabulum Unifying Dysplastic Conditions at Skeletal Maturity*Katherine Hajdu; Kurando Utagawa; Rachel McKee; Benjamin Asbury; J. Court Reese; **Jonathan Schoenecker, MD, PhD;** Courtney Baker, MD*
Vanderbilt University Medical Center
Nashville, TN, United States

#143

11:39 AM–11:44 AM ♦

Osteotomy-Free Correction of Acetabular Dysplasia: Proof of Concept of the SHALE Procedure***Matthew Halanski, MD;** Brittney Kokinos; Jun Mei; Cameron Jeffers; Vamsikrishna Kurakalva; Tengtang Tang; Subham Badhyal; M. Wade Shrader, MD; Tom Crenshaw; Xiangjia Li*
Phoenix Children's
Phoenix, AZ, United States

11:45 AM–11:53 AM Discussion

AWARDS AND
PRESIDENTIAL TRANSFER

11:54 AM–12:45 PM

11:54 AM–11:59 AM

Introduction Distinguished Achievement Award*Kevin Shea, MD*

12:00 PM–12:15 PM

Distinguished Achievement Award Winner*John "Jack" Flynn, MD*

12:16 PM–12:19 PM

2027 Meeting Preview

12:20 PM–12:24 PM

Introduction of Humanitarian Award Winner*Kevin Shea, MD*

12:25 PM–12:30 PM

Humanitarian Award Winner*Martin Herman, MD*

12:31 PM–12:34 PM

Award Announcements*John Vorhies, MD*

12:35 PM–12:45 PM

Presidential Transfer



SESSION 8A. TRAUMA: FOCUS ON THE UPPER EXTREMITY

2:00 PM–3:15 PM

Moderators: *R. Carter Clement, MD, MBA & Julie Samora, MD, PhD, MPH*

2:00 PM–2:02 PM Introduction

#144

2:03 PM–2:07 PM

Equivalent Two-Year Outcomes of Casting and ORIF for Displaced Medial Epicondyle Fractures in Children

*Petra Grahn, MD, PhD; Ilkka Helenius, MD, PhD, Professor; Jaakko Sinikumpu, MD, PhD, Prof; Jenni Katariina Jalkanen; Matti Ahonen, MD, PhD
HUS Helsinki University Hospital
Helsinki, Finland*

#145

2:08 PM–2:12 PM

Elbow Dislocations in Children: The Impact of a Medial Epicondyle Humerus Fracture

*Sydney Schieffer; Juliana Arndt; Holden Husbands; Justin Dvorak; Joseph Davey, MD
The University of Oklahoma
Oklahoma City, OK, United States*

#146

2:13 PM–2:17 PM

Validation of the Patient Reported Outcomes of Fracture Healing (PROOF-UE)-Upper Extremity Questionnaire for Supracondylar Fractures of the Elbow

*Unni Narayanan, MD, FRCSC; Akash Komalanathan; Emma Nachshen; Anne Murphy; Stanley Moll; Mark Camp, MD; Jason Sheng
The Hospital for Sick Children (SickKids)
Toronto, Ontario, Canada*

2:18 PM–2:26 PM Discussion

#147

2:27 PM–2:31 PM

Outcomes for Completely Displaced and Rotated Lateral Humeral Condyle Fractures in Children: A Multicenter Study

*Jake Goldfarb; Rohit Siddabattula; Rachel Goldstein, MD; Daniel Pereira; Muhammad-Amin Munshi; Julia Sanders, MD; Laura Bellaire, MD; Kevin Neal, MD; Jaime Rice Denning, MD, MS; Pooya Hosseinzadeh, MD
Washington University in St. Louis
St. Louis, MO, United States*

#148

2:32 PM–2:36 PM

Does One Bone Suffice? Clinical and Radiographic Outcomes of Single vs. Both Bone Forearm Fixation in Children

*Andrew Cooper; Tega Diejomaoh; Christopher Carron; William Morris, MD; Jaysson Brooks, MD
Scottish Rite for Children
Dallas, TX, United States*

#149

2:37 PM–2:41 PM

Hold that K Wire! Fixing Nondisplaced Distal Forearm Fractures in Pediatric Floating Elbow Injuries is Unnecessary

*Maia Regan; Akbar Syed; Keith Baldwin, MD; CORTICES Study Group
Children's Hospital of Philadelphia
Philadelphia, PA, United States*

2:42 PM–2:50 PM Discussion

#150

2:51 PM–2:55 PM

When Less Is More: Short Casting Durations Are Safe in Pediatric Distal Radius Fractures

*Dev Laungani; Martha Kebeh; Amanda Moser; Sayaka Mori; Michelle Kwon; Sulagna Sarkar; Apurva Shah, MD, MBA
Children's Hospital of Philadelphia
Philadelphia, PA, United States*

#151

2:56 PM–3:00 PM

Outcomes and Complications Associated With Pediatric and Adolescent Distal Radius Fractures Managed With Closed Reduction and Percutaneous Pinning

*Julia Conroy; Thomas Pallan; Joshua Abzug, MD
University of Maryland School of Medicine
Baltimore, MD, United States*

#152

3:01 PM–3:05 PM

Growth on Hold: Uncovering Risk Factors for Physeal Arrest Following Pediatric Distal Radial Physeal Fracture

*Varshini Babu, MPH; Benjamin Gundlach, MD; Hannah Szapary; Sulagna Sarkar; Nathan Chacras; Rebecca Aguiar, BS; Donald Bae, MD; Scott Mahon, BS; Divya Jain; Amanda Pang; Apurva Shah, MD, MBA
Children's Hospital of Philadelphia
Philadelphia, PA, United States*

3:06 PM–3:14 PM Discussion

SESSION 8B. SPINE: EARLY ONSET SCOLIOSIS

2:00 PM–3:15 PM

Moderators: *A. Noelle Larson, MD & Ryan Fitzgerald, MD*

2:00 PM–2:02 PM Introduction

#153

2:03 PM–2:07 PM

Effect of Vosoritide on Spine Morphology in Young Children With Achondroplasia: 1-Year Results From a Double-Blind, Randomized Phase 2 Study

*Klane White, MD; Melita Irving; Julie Hoover-Fong; Swati Mukherjee; Anne Dee; Christine Rivat; Ian Sabir; Ravi Savarirayan
Children's Hospital Colorado
Aurora, CO, United States*

#154

2:08 PM–2:12 PM ★

A Growth-Friendly Transverse Apical Control Technique for Early-Onset Scoliosis: A Porcine Model**Hong Zhang, MD**; Brad Niese; Daniel Sucato, MD, MS
Scottish Rite for Children
Dallas, TX, United States

#155

2:13 PM–2:17 PM

Efficacy of Suspension Bending Cast for Early Onset Scoliosis**Keisuke Masuda**; V. Salil Upasani, MD; Michael Kelly, MD; Burt Yaszay; Carrie Bartley; Tracey Bryan, MA; Peter Newton, MD
Rady Children's Health
San Diego, CA, United States

2:18 PM–2:26 PM

Discussion

#156

2:27 PM–2:31 PM

Radiographic and Functional Outcomes for Sagittal Alignment in Growth Rod Graduates: Are We Able to Rebuild It?Anuj Gupta; Brett Shannon, MD; Petya Yorgova; Paul Sponseller, MD, MBA; Lindsay Andras, MD; **Suken Shah, MD**; Pediatric Spine Study Group
Nemours Children's Hospital, Delaware
Wilmington, DE, United States

#157

2:32 PM–2:36 PM

Shilla Growth Guidance System (SGGS) Instrumentation With Pelvic Foundation for Severe Early Onset Neuromuscular Spine DeformityHannah Geoffroy; **Richard Schwend, MD**; David Bumpass, MD; Jason Muka
The Children's Mercy Hospital
Kansas City, MO, United States

#158

2:37 PM–2:41 PM

Growth Guidance or Posterior Based Distraction in EOS: Can the Modified Clavien-Dindo-Sink Classification System Tell Them Apart?Rayyan Abid; Jason Anari, MD; Katerina Kourpas; Stone Streeter; **Christina Hardesty, MD**; Pediatric Spine Study Group
UH Rainbow Babies & Children's Hospital
Cleveland, OH, United States

2:42 PM–2:50 PM

Discussion

#159

2:51 PM–2:55 PM

Why Won't it Grow? Prediction of Which Early-Onset Scoliosis Patients will Experience Failure to Lengthen of their MCGRSimon Blanchard; Thomas Coleman; Jacob Jordan; Sulagna Sarkar; Tenner Guillaume, MD; Scott Luhmann, MD; Walter Truong, MD; Jason Anari, MD; Pediatric Spine Study Group; **Patrick Cahill, MD**
Children's Hospital of Philadelphia
Philadelphia, PA, United States

#160

2:56 PM–3:00 PM

Does Turning Rods Change Patient Outcomes? Comparing Achieved Lengthening and Complication Rates Between Magnetically Controlled Growing Rod OrientationsSimon Blanchard; Thomas Coleman; Lorena Floccari, MD; Joshua Pahys, MD; Jacob Jordan; Sulagna Sarkar; John Stelzer, MD; Paul Sponseller, MD, MBA; Tenner Guillaume, MD; Michael Vitale, MD, MPH; Peter Sturm, MD; John "Jack" Flynn, MD; Jason Anari, MD; **Patrick John Cahill, MD**; Pediatric Spine Study Group
Children's Hospital of Philadelphia
Philadelphia, PA, United States

#161

3:01 PM–3:05 PM

Do Rib or Spinal Proximal Anchors in Magnetically Lengthening Growing Rod Constructs Yield More Length Gain Over Time?Tiffany Phan; Annika Myers; Jacquelyn Valenzuela-Moss; David Skaggs, MD; Kenneth Illingworth, MD; Scott Luhmann, MD; Tenner Guillaume, MD; Patrick Cahill, MD; Paul Sponseller, MD, MBA; Michael Heffernan, MD; Tyler Tetreault, MD; **Lindsay Andras, MD**; Pediatric Spine Study Group
Children's Hospital Los Angeles
Los Angeles, CA, United States

3:06 PM–3:14 PM

Discussion

SESSION 8C. CASE FILES IN LOWER EXTREMITY TRAUMA AND RECONSTRUCTION

2:00 PM–3:15 PM

Moderators: Michael Millis, MD & Wendy Ramalingam, MD

2:00 PM–2:02 PM

Introduction

Case 17

2:03 PM–2:05 PM

Osteochondral Allografting of the Femoral Head in Adolescents With Post-SCFE Avascular NecrosisRoy James; Claire Saltzman; Cyrus Etebari; Kevin Latz, MD; Ryan Koehler, MD; **Caleb Grote, MD, PhD**
The Children's Mercy Hospital
Kansas City, MO, United States

2:06 PM–2:11 PM

Discussion

Case 18

2:12 PM–2:14 PM

Arthroscopic Assisted Open Reduction of Traumatic Hip Dislocation in a ToddlerMustafa Hashimi; Maureen Maciel, MD; **Sean Keyes, DO**
AdventHealth Orlando
Orlando, FL, United States

2:15 PM–2:20 PM

Discussion

Case 19

2:21 PM–2:23 PM

Transitional T-type Acetabular Fracture in a Young Adolescent Treated With Open Reduction Internal Fixation**Brian Lynch, MD**; Elizabeth Wang; Rafael Madera
Stony Brook Medicine
Stony Brook, NY, United States

2:24 PM–2:29 PM

Discussion

Case 20

2:30 PM–2:32 PM

Fascia Lata Autograft Reconstruction of a Traumatic Femoral Trochlear Defect in a Pediatric Patient: A Case Report*Haad Arif; Emilio Feijoo, BS; Ellie Starnes; Hamp Sisson;***Shane Strom, MD***The University of Alabama at Birmingham
Birmingham, AL, United States*

2:33 PM–2:38 PM

Discussion

Case 21

2:39 PM–2:41 PM

Pediatric Well-Leg Compartment Syndrome Following Prolonged Femur Fracture Fixation: A Case Report and Lessons Learned*Ryan Lee; Anand Kumar Ramalingam; Chin Yee Woo; Derrick Jun Liang Lam; Mohammad Ashik; Arjandas Mahadev, FRCS**KK Women's and Children's Hospital
Singapore, Singapore*

2:42 PM–2:47 PM

Discussion

Case 22

2:48 PM–2:50 AM

Open Pelvis Fracture in a 4-Year-Old Girl With Complete Disruption of Both SI Joints (APC III) and Sacral Fracture: A Very Rare and Serious Injury Requiring Open Reduction of the SI Joint*Amr Abdelgawad, MD, MBA; Ahmed Hagag, MD, PhD; Ahmed Sabry; Mohamed Said
Maimonides Medical Center
Brooklyn, NY, United States*

2:51 PM–2:56 PM

Discussion

Case 23

2:57 PM–2:59 PM

"I Want To Keep The Bullet!"; Elevated Lead Levels From A Retained Bullet in The Femoral Head*Quinn Johnson; Paola Rullan Oliver; Lainey Bukowiec; Austen Thompson; Travis Turner; David Clark; John Kelly; Emmanouil (Manos) Grigoriou, MD
Mayo Clinic
Rochester, MN, United States*

3:00 PM–3:05 PM

Discussion

Case 24

3:06 PM–3:08 PM

Not Your Routine Endocrinopathy - Lessons from Atypical SCFE Presentation**Kirsten Norrell, MD***University of Florida
Gainesville, FL, United States*

3:09 PM–3:14 PM

Discussion

**8D. PRACTICAL APPROACHES TO COMPLICATIONS AND MEDICOLEGAL ISSUES IN PEDIATRIC ORTHOPAEDICS****2:00 PM–3:15 PM****Chairs: Steven Frick, MD & Blake Montgomery, MD****Facilitators: Jaime Denning, MD, MS; Ryan Fitzgerald, MD; Brendan Williams, MD**

This interactive small-group discussion session aims to enhance the understanding of the multifaceted nature of complications in pediatric orthopaedics. Attendees will gain practical insights and strategies that they can implement in their practice to better manage personal challenges and improve patient care.

2:00 PM–2:03 PM

Introduction*Steven Frick, MD & Blake Montgomery, MD*

2:04 PM–2:11 PM

Second Victim Syndrome*John Anthony "Tony" Herring, MD, FRCS*

2:12 PM–2:19 PM

Communicating After a Complication*Jennifer Bauer, MD, MS*

2:20 PM–2:34 PM

Roundtable Discussion

2:35 PM–2:42 PM

Surgeons Will be Sued: What Are the Medicolegal Ramifications?*Steven Frick, MD*

2:43 PM–2:50 PM

Roundtable Discussion

2:51 PM–2:58 PM

Unpacking Medical Legal Review*Derek Kelly, MD*

2:59 PM–3:15 PM

Questions & Wrap Up*Steven Frick, MD & Blake Montgomery, MD*

SESSION 9. TRAUMA: LOWER EXTREMITY FRACTURES— NAILING, BRACING, AND REMODELING

3:40 PM–4:55 PM

Moderators: Scott Rosenfeld, MD & Benjamin Sheffer, MD

#162

3:40 PM–3:44 PM

Retrospective Review of Perioperative Complications in Pediatric Patients Treated for Ankle Fractures

Andrew Cooper; Chinelo Onubogu; Rusty Hartman; Jacob Zide, MD;

Anthony Riccio, MD

Scottish Rite for Children
Dallas, TX, United States

#163

3:45 PM–3:49 PM

Predicting Distal Tibia Remodeling in Pediatric Fractures Using an AI-Modified Friberg-Based Model: Model Development and Retrospective Validation

Kinsley Wang; Faith Youkhana; Angel Roman; Michael Puchowicz; Andrew Ritchey; **David Bennett, MD**
Phoenix Children's
Phoenix, AZ, United States

#164

3:50 PM–3:54 PM

Reduced Hardware Prominence and Reoperation Rates With Lateral-Only Flexible Medullary Nailing in Pediatric Tibial Shaft Fractures: A Retrospective Comparative Cohort Study

Alan Villegas Meza; Mohammad Diab, MD; **Jaclyn Hill, MD**
UCSF Health
San Francisco, CA, United States

3:55 PM–4:03 PM

Discussion

#165

4:04 PM–4:08 PM

Flexible Nailing for Pediatric Femur Fractures: A Comparison of Titanium versus Stainless Steel Nails

Aidan Sweeney; Sofie-Ellen Stroeve;

Nicholas Fletcher, MD

Children's Healthcare of Atlanta
Atlanta, GA, United States

#166

4:09 PM–4:13 PM

Prefabricated Function Bracing Versus Spica Casting for Femur Fractures in Young Children: Lowering the Cost of Care

Matthew Frederickson; Nicholas Stamatos; Patrick Wise; Holly Leshikar, MD, MPH; **Amanda Whitaker, MD**
University of California, Davis
Sacramento, CA, United States

#167

4:14 PM–4:18 PM

Dynamic Abduction Bracing as an Alternative to Spica Casting: Comparable Clinical Outcomes With Reduced Hospital Burden

Paola Rullan Oliver; Adam Rasmussen; Todd Milbrandt, MD; **Anthony Stans, MD**; Emmanouil (Manos) Grigoriou, MD; A. Noelle Larson, MD
Mayo Clinic
Rochester, MN, United States

4:19 PM–4:27 PM

Discussion

JPOSNA® SPOTLIGHT PAPERS

The following are the most viewed/downloaded papers between June 2024 and June 2025.

Hip Dysplasia and Dislocation in Down Syndrome: Is There Evidence to Support Consideration of Routine Hip Surveillance?

Rikki Koehler, MD; Rubini Pathy, MD; Daniel Gregory, PhD; James F. Mooney III, MD; Mary E. Gannotti, PT, PhD
Children's Mercy Hospital
Kansas City, MO

Long Leg Versus Short Leg Cast Immobilization for Treatment of Salter-Harris II Distal Tibial Fractures After Closed Reduction: A Multisite Retrospective Study

Christopher D. Souder, MD; James D. Spearman Jr., MD, MBA; Holly Hughes Garza, DVM, MPH; Lori A. Thornton, RN, FNPC; Jessica M. Treiber, MPH, PA-C; Ainsley Bloomer, MD; Brian P. Scannell, MD; Christine A. Ho, MD
Rady Children's Hospital
San Diego, CA

Hip Dysplasia in Patients With Charcot-Marie-Tooth Disease: Unraveling an Underrecognized Condition

Nathan Chaclas, BS; Carter E. Hall, BS; Sabrina Yum, MD; Mark Seeley, MD; **Wudbhav N. Sankar, MD**
Children's Hospital of Philadelphia
Philadelphia, PA

4:43 PM–4:51 PM

Discussion

4:52 PM–4:55 PM

Wrap-Up and Farewell



Attendees can access and view the ePosters through the meeting mobile app.

BASIC SCIENCE

ePoster 1

Assessing Bacterial Presence on Painted and Unpainted Fingernails in Orthopaedic Providers in a Simulated Operative Protocol

Jakub Ratkowski, MD; Jennafir Ernst; Elizabeth Stewart; James Moeller;

Daniel Grant, MD

West Virginia University Health System, Morgantown, WV, United States

ePoster 2 ♦

Gene Variants Characterize and Distinguish Osteochondromas in Patients with Multiple Hereditary Exostosis

Christina Mundy; Caroline Kim; Divya Talwar, PhD, MPH, BDS; Maurizio Pacifici; **Alexandre Arkader, MD** Children's Hospital of Philadelphia, Philadelphia, PA, United States

ePoster 3

Increased Collagen Accumulation and Enrichment of TGF β Pathways in the Mouse Caudal Intervertebral Disc Following Growth Rod Instrumentation

Lucas Budd; Olanrewaju Akande; Rachana Vaidya; Christian Gonzalez; Simon Tang; **Blake Montgomery, MD** Washington University in St. Louis, St. Louis, MO, United States

ePoster 4

Local Administration of Clodronate, Simvastatin, and Hydroxyapatite in an Immature Piglet Model of Femoral Head Osteonecrosis for Legg-Calve Perthes Disease

Paola Rullan Oliver; Emil Varas; Joseph Panos; Christopher Nagelli;

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ePoster 5

Microwave Ablation (MWA) of the Porcine Tibia Growth Plate: An Optimized Approach

Nassim Farhat; **Kenneth Noonan, MD** University of Wisconsin, Madison, WI, United States

ePoster 6

Quantifying 3D Spinal Deformity Corrective Moment and Spine Stiffness in Children with Spinal Muscle Atrophy

Dennis Anderson; Lennert Plasschaert, MD; Hiroko Matsumoto, PhD; Ryan Murdock, MD; **Brian Snyder, MD** Boston Children's Hospital, Boston, MA, United States

ePoster 7

Safe Zones for Femoral and Combined Version to Preserve Hip Range of Motion After Periacetabular Osteotomy

Masahiro Suzuki; David Liu, MD; Michael Millis, MD; Mahdil Aghaalkhani, Young-Jo Kim, MD; Mohammadreza Movahhedi Boston Children's Hospital, Boston, MA, United States

CONGENITAL, SYNDROMIC, AND SKELETAL DYSPLASIA

ePoster 8

Crossing a New Bridge: Understanding the Abyss of Transition of Care for Teenagers and Young Adults With Osteogenesis Imperfecta

Ali Siddiqui; Mahim Jain; Cristina McGreal; Sarah Little; Richard Kruse, DO, MBA; Ricki Carroll; Jeanne Franzone, MD Nemours Children's Hospital, Delaware, Wilmington, DE, United States

ePoster 9

Lateral Malleolus Reconstruction for Fibular Hemimelia as a Prevention of Foot Deformity Recurrence Following Tibial Lengthening—A Long-term Analysis

Milud Shadi, MD, PhD; Tomasz Kotwicki; Piotr Janusz, MD, PhD Poznan University of Medical Sciences, Department of Spine Disorders and Pediatric Orthopedics, Poznan, Poland

ePoster 10

Patellar Instability in Pediatric Patients Following Below Knee Amputation

Ashley Startzman, DO; Lindsey Tully Shriners Children's Greenville, Greenville, SC, United States

ePoster 11

Reliability and Usability of the Gross Motor Functional Classification for Children with Arthrogryposis Multiplex Congenita (GMFC-AMC): A Pilot Study

Lauren Hyer, MD; Clarice Ribeiro Soares Araujo; Noémi Dahan-Oliel, PhD; Jacob Bailey; **David Westberry, MD** Shriners Children's Greenville, Greenville, SC, United States

FOOT/ANKLE

ePoster 12 ♦

Outcomes of Regional Anesthesia for Pediatric Patients With Charcot-Marie-Tooth Disease Undergoing Foot Surgery: A Case Series

María Galán-Olleros; Farrukh Munshey; Lipika Soni; Ashley Harvey; Tobias Everett; **Maryse Bouchard, MD, MSc, FRCSC**, Hernan Gonorazky, Eliza Nigro The Hospital for Sick Children (SickKids), Toronto, ON, Canada

ePoster 13

Pediatric Posterior Ankle Arthroscopy - Indications and Outcomes: A Prospective Study

Indranil 'Neel' Kushare, MD; Ramesh Ghanta; Tracie Stone; Lauren Baer; Sachin Allahabadi, MD; Scott McKay, MD Texas Children's, Houston, TX, United States

ePoster 14

Predictors of Correction After Calcaneostop for Pediatric Flexible Flatfoot: The Optimal Screw Head Height in a Prospective Study With Minimum 3-Year Follow-up

Sungmin Kim Chonnam National University Hospital, Gwangju, South Korea

ePoster 15

Prognostic Factors for Advancement to Surgery and Pain Relief from Lidocaine Injections for Pediatric and Adolescent Os Trigonum Syndrome

Morgan Swanson; Nathan Chacras; Brendon Mitchell; Angie Kuang; Kaitlyn O'Malley; Sulagna Sarkar; Naomi Brown; **Kathleen Maguire, MD** Children's Hospital of Philadelphia, Philadelphia, PA, United States

ePoster 16**The Ponseti Method for the Treatment of Clubfoot Associated with VACTERL Syndrome***Ayana Fairweather; Rusty Hartman;***Anthony Riccio, MD***Scottish Rite for Children, Dallas, TX, United States***ePoster 17****What Does Symmetry Say About Etiology in Cavovarus Foot Deformity? A Retrospective Review of Cavovarus Presentation and Association with Neuropathy***Michelle Christie, MD; Sara De Salvo;**Rusty Hartman; Jacob Zide, MD;***Anthony Riccio, MD***Scottish Rite for Children, Dallas, TX, United States***HAND/UPPER EXTREMITY****ePoster 18****Age-predicted Anterior Capitellar Distance: A New Standard for Assessing Supracondylar Humerus Fracture Reduction***Ismael Cañete; María-Jesús Lira; Jafet Massri-Pugin**Pontificia Universidad Catolica de Chile, Santiago Chile, Chile***ePoster 19****An Update on the Effects of Age on the Outcomes of Elbow Release in Arthrogryposis***Sebastian Rodriguez-Perez; Natalie Williams; Ramsey Tarazi; Malliena DeShields; Dan Zlotolow, MD*
*Shriners Children's Philadelphia, Philadelphia, PA, United States***ePoster 20****Beyond Rotation: Patient-Reported Functional Improvements After Rotational Osteotomy for Congenital Radioulnar Synostosis***Ismael Cañete; Sayaka Mori; Donald Bae, MD; Deborah Bohn, MD; Lindley Wall, MD; Apurva Shah, MD, MBA;*
CoULD Study Group
*Children's Hospital of Philadelphia, Philadelphia, PA, United States***ePoster 21****Effectiveness of Cast Wedging for Secondary Angulation in Pediatric Forearm Fractures: A Cohort of 142 Patients***Mubashir Wani; Ali Yalcinkaya; Jishar Sainulabdeen; Adil Ali; Mohammed Ebrahim; Ali Alabbas; Imran Mumtaz; Anirejuoritse Bafor, MBBS, FMCS, FMCOrtho, FACS; Christopher Iobst, MD; Abdelsalam Hegazy; Farhan Ali Sidra Medicine, Doha, Qatar***ePoster 22****Outcomes Following Isolated Distal Radial Epiphysiodesis in Pediatric Patients for Progressive Wrist Deformity***Claudio Ghetti; Tiffany Ho; Tanner Campbell; James Bomar, MPH;***Eric Edmonds, MD***Rady Children's Health, San Diego, CA, United States***ePoster 23****Residual Deformity After Pediatric Radial Neck Fracture Treatment Is Not Associated with Loss of Forearm Rotation Within Common Acceptance Ranges***Jeffrey Pike; Sobhan Panjavi;**Morgan Tidler**BC Children's Hospital, Vancouver, BC, Canada***HIP****ePoster 24****A 'Two-Hit' Hormonal Hypothesis in Slipped Capital Femoral Epiphysis—The Critical Interplay of Leptin and Vitamin D***Jonathan Schoenecker, MD, PhD; Logan Locascio; Katherine Hajdu; Benjamin Wong; Daniel Puczek; Courtney Baker, MD*
*Vanderbilt University Medical Center, Nashville, TN, United States***ePoster 25****AI-Assisted Ultrasonography Improves Interobserver Consistency in Neonatal Hip Dysplasia Screening***Hsuan-Kai Kao, MD; Szu-Yao Wang; Cheng-Min Hsu; Chia-Hsieh Chang, MD, PhD*
*Chang Gung Memorial Hospital, Taoyuan, Taiwan***ePoster 26****Bladder Exstrophy Iliac Osteotomies: 3D Modeling Comparative Analysis of Current Approaches' Impact on Intrapelvic Volume and Acetabular Version***Neal Mukherjee; Scott Drapeau; Michael Bunker; Jenny Tai; Joshua Cobbett; Eliana Delgado, MD; Ishaan Swarup, MD*
*UCSF Health, San Francisco, CA, United States***ePoster 27****Comparison of Outcomes of Periacetabular Osteotomy Surgery Between Hip-Preservation Fellowship Trained Surgeons and Non-Hip Preservation Fellowship Trained Surgeons***Jeffrey Peck, MD; Benjamin Martin, MD, MBA; Shannon Kelly, MD; Rati Deshpande; Matthew Oetgen, MD, MBA*
*Children's National Hospital, Washington, DC, United States***ePoster 28****Dynamic Femoroacetabular Impingement: Cause of Femoroacetabular Impingement in Young Athletes***Benjamin Johnson; Bayley Potter; Bobby Van Pelt, MPH; Philip Wilson, MD; William Morris, MD; Henry Ellis, MD*
*Scottish Rite for Children, Dallas, TX, United States***ePoster 29****Early-Stage Perfusion MRI Correlates With Femoral Head Deformity in Children Under 6 With Legg-Calvé-Perthes Disease: International Multi-Center Prospective Study***Joonoh Lee; Ahan Mistry; Jessica Cao; Keinan Agonias; William Morris, MD; Hitesh Shah, MD; Mihir Thacker, MD; Harry Kim, MD; International Perthes Study Group (IPSG)*
Scottish Rite for Children, Dallas, TX, United States

ePoster 30**Epiphyseal Tubercle Morphology Is Similar in SCFE and cam-type FAI: Evidence for a Shared Morphological Precursor?**

David Liu, MD; Mahdi Aghaalkhani; Saral Patel; Shanika De Silva; Yi-Meng Yen, MD; Young Kim, MD; Mohammadreza Movahhedi; Ata Kiapour, PhD, MMSc
Boston Children's Hospital, Boston, MA, United States

ePoster 31**Greater Trochanteric Apophyseodesis Inhibits Troch Growth Across Lateral Pillar and Age Categories**

Charles Mehlman, DO, MPH; Junichi Tamai, MD
Dayton Children's Hospital, Dayton, OH, United States

ePoster 32**Harnessing Failure: Femoral Nerve Palsy as a Key Predictor of Unsuccessful Treatment for Infant Hip Dislocation**

Vahe Sahakian; Andrew Peace;
Todd Blumberg, MD
Seattle Children's Hospital, Seattle, WA, United States

ePoster 33**Intramedullary Femoral Lengthening Following THA for Hip Dysplasia in the Pediatric Population**

Ainsley Bloomer; John Masonis, ATC, BA, BOC, BOCO, BOCP, BS, BSN, CAE;
Virginia Casey, MD
Atrium Health Musculoskeletal Institute, Charlotte, NC, United States

ePoster 34**MRI vs CT for Acetabular and Femoral Morphology in the Diagnosis and Surgical Planning for Acetabular Dysplasia**

David Liu, MD; Miles Batty, MD; Mahdi Aghaalkhani; Freya Gupta; Shanika De Silva; Young Kim, MD; Mohammadreza Movahhedi; Ata Kiapour, PhD, MMSc
Boston Children's, Boston, MA, United States

ePoster 35**Opioid Use After Screw Fixation of Slipped Capital Femoral Epiphysis**

Jonathan Warren; Colleen Moreland; Stephanie Coupal; McKenna Noe; George Quaye; Lisa Berglund, MD;
Caleb Grote, MD, PhD
The Children's Mercy Hospital, Kansas City, MO, United States

ePoster 36**Radiographic and Clinical Outcomes of the Periacetabular Osteotomy in the Non-Concentric Hip Joint**

Taylor Johnson; Lauren Osborne; Laura Mayfield, MPH; William Morris, MD; David Podeszwa, MD; Chan-Hee Jo, PhD; Daniel Sucato, MD, MS
Scottish Rite for Children, Dallas, TX, United States

INFECTION/TUMOR**ePoster 37****Adverse Outcomes and Microbial Etiology in Pediatric Necrotizing Fasciitis: A Retrospective Cohort Study**

Holden Archer, MD; Meghana Jami; Scott Rosenfeld, MD; **Nicole Montgomery, MD**
Texas Children's Hospital, Houston, TX, United States

ePoster 38**Change in Standard Uptake Value After Neoadjuvant Chemotherapy Correlates With Necrosis and Length of Survival in Pediatric Osteosarcoma**

Asahi Murata, MPH; Rajul Gupta; Daryn Strub, BA; **Thomas Scharschmidt, MD**
Nationwide Children's Hospital, Columbus, OH, United States

ePoster 39**Distal Tibiofibular Kissing Lesions in Pediatric Patients with Multiple Hereditary Exostoses: Presentation and Treatment Result**

Paul Sponseller, MD, MBA; Maria Polo Miranda; Sydney Thai; Jessica Siragusa
Johns Hopkins Health System, Baltimore, MD, United States

ePoster 40**Gebhardt Triple Injection for Unicameral Bone Cyst: Healing and Associated Factors**

Andrea Perloff; Elyse Berlinberg; Hannah Szapary; Mattie Raiford; Carrie Heincelman; Mark Gebhardt, MD; Megan Anderson, MD
Boston Children's Hospital, Boston, MA, United States

ePoster 41**Intramedullary Fibular Allograft With Flexible Nail Stabilization for Humerus Aneurysmal Bone Cyst in a Pediatric Patient: 3-Year Outcome**

Amr Atef Abdelgawad, MD, MBA; Ahmed Thabet Hagag, MD, PhD; Ahmed Omar Sabry; Mohamed Said Maimonides Medical Center, Brooklyn, NY, United States

ePoster 42**Multiple Hereditary Exostosis: It is More Than Just the Bumps**

Alastair Sterns; Jacquelyn Valenzuela-Moss; Nicole Mueske; **Jonas Owen, MD**
Children's Hospital Los Angeles, Los Angeles, CA, United States

LOWER EXTREMITY/ DEFORMITY**ePoster 43****Changes in Coronal Plane Alignment After Transphyseal ACL Reconstruction Performed Within 2 Years of Skeletal Maturity: Results from the PLUTO Study Group**

Joshua Bram; Meghan Whalen; Subrina Farah; Grace Saville; Dai Sugimoto; Daniel Green, MD; Mininder Kocher, MD, MPH; **Peter Fabricant, MD, MPH;** PLUTO Study Group
Hospital for Special Surgery, New York, NY, United States

ePoster 44**Cryopreserved Viable Chondrocyte Osteochondral Allografts Are a Reliable Alternative for the Treatment of Patellar Chondral Defects in Adolescents**

Stone Streeter; Brendon Mitchell; Casey Kuka; Meg Bowen; Akbar Syed; Alexandra Olson; Brendan Williams, MD; Theodore Ganley, MD; **J. Todd Lawrence, MD, PhD**
Children's Hospital of Philadelphia, Philadelphia, PA, United States

ePoster 45**It's Not Just Knock Knees: Joint Line Obliquity and Coronal Plane Knee Subluxation are Associated with Lateral Femoral Condyle Osteochondritis Dissecans**

Colby Freeman; Kevin Xu; Akbar Syed; Michael Read; Monika Thothadri; Theodore Ganley, MD; **Christine Goodbody**
Children's Hospital of Philadelphia, Philadelphia, PA, United States

ePoster 46**Region-Specific Changes in Femoral and Tibial Cartilage Thickness in Individuals with Lateral Discoid Meniscus: A Large-Scale Analysis of 2,796 Knee MRIs**

Mahdi Aghaalkhani; Nazgol Tavabi; Mohammadreza Movahhedi; Ata Kiapour, PhD, MMSc
Boston Children's Hospital, Boston, MA, United States

ePoster 47**Cost Analysis of Pediatric Firearm Related Injury**

Elizabeth Whitman; Jonathan Rowland, BS, CCRP; David Spence, MD; Benjamin Sheffer, MD; **Derek Kelly, MD, FAAOS, FAOA**
Campbell Clinic, Germantown, TN, United States

ePoster 48**Easing the Ouch: Assessing Child Life Services in Upper Extremity Pin Removals**

Scott Mahon, BS; Caitlin Adiletto; Zoe Belardo, BA; Eliza Buttrick, BA; Sayaka Mori; **Apurva Shah, MD, MBA**
Children's Hospital of Philadelphia, Philadelphia, PA, United States

ePoster 49**Identifying Risk Factors for Emergency Department Return and Readmission After Pediatric Orthopaedic Surgery: A Retrospective Cohort Study**

Devika Shenoy; Christian Zirbes; Christian Pean; Robert Lark, MD; **Anthony Catanzano, MD**
Duke University Health System, Durham, NC, United States

ePoster 50**Social Disadvantage and Adverse Outcomes in Slipped Capital Femoral Epiphysis**

Tiffany Phan; John Wyatt; Jacquelyn Valenzuela-Moss; **Rachel Goldstein, MD**
Children's Hospital Los Angeles, Los Angeles, CA, United States

ePoster 51**Tipping the Scales in Recovery: Clinically Meaningful Increases in BMI Following Immobilization for Fracture or Elective Orthopaedic Surgery**

Megan Badejo; Elizabeth Sachs; Alexandra Damron; Paula Viza Gomes; Rochelle Bitolas; Emily Poehlein; Robert Lark, MD; **Anthony Catanzano, MD**
Duke University Health System, Durham, NC, United States

ePoster 52**Transfer Learning from Hand-Trained Deep Learning Models to Estimate Bone Age from Knee Radiographs**

Joshua Bram; Ayoosh Pareek, MD; Samuel Beber; Amir Daliliyazdi; M. Moein Shariatnia; Ruth Jones; Olivia Tracey; Daniel Green, MD; **Peter Fabricant, MD, MPH**
Hospital for Special Surgery, New York, NY, United States

NEUROMUSCULAR

ePoster 53**3D Gait Analysis Demonstrates Comparable Results for Semitendinosus Transfer and Hamstring Lengthening in Ambulatory Cerebral Palsy Patients**

Don Li; Vishnu Deep Chandran; Raylin Xu; Isabella Marsh; Christopher Williams; Paulo Selber, MD; **David Scher, MD**
Hospital for Special Surgery, New York, NY, United States

ePoster 54**Hip Displacement in Spastic Hemiplegia: Increased Risk With Hip Internal Rotation and Adduction Irrespective of Sagittal Gait Pattern**

Zhe Yuan; Alexander Aretakis, MD; Chris Church; M. Wade Shrader, MD; Freeman Miller, MD; Anuj Gupta; Arianna Trionfo, MD; **Jason Howard, MD, FRCSC**
IWK Health Centre, Dalhousie University, Halifax, NS, Canada

ePoster 55**Influence of Malnutrition on Complication Rates Following Posterior Spinal Fusion in Pediatric Neuromuscular Patients: A Matched Cohort Analysis**

Haad Arif; Devan Devkumar; Ashleigh Pyle; Philip Ashley, MD; Shane Strom, MD; David Skaggs, MD; Shawn Gilbert, MD; Michael Conklin, MD
The University of Alabama at Birmingham, Birmingham, AL, United States

ePoster 56**To Reconstruct or Resect? Comparing Outcomes of Trochanteric Sparing Proximal Femoral Head Resection Versus Hip Reconstruction in Cerebral Palsy Patients with Severe Hip Subluxation/Dislocation**

Colyn Watkins, MD; Carly McDermott, MS; Marie Murray, BA; Patricia Miller, PhD; Brian Snyder, MD; **Benjamin Shore, MD, MPH, FRCSC**
Boston Children's Hospital, Boston, MA, United States

SPINE

ePoster 57

A Multidisciplinary Approach Lowers Surgical Site Infections (SSI) in Adolescent Idiopathic Scoliosis (AIS) But Has Not Improved SSI Rates for Non-Idiopathic Patients: Insights from a Ten-Year Cohort Study (2012-2022)

Kelea Damp; Gwendolyn McGarry; Carson Keeter; **Mark Erickson, MD**; Sumeet Garg, MD
Children's Hospital Colorado, Aurora, CO, United States

ePoster 58

Asymmetric Vertebral Growth Contributes to Junctional Kyphosis in the Skeletally Immature Swine Model

Matthew Halanski, MD; Brittney Kokinos; Cameron Jeffers; Tom Crenshaw
Phoenix Children's Hospital, Phoenix, AZ, United States

ePoster 59

Axial Vertebral Rotation Negatively Impacts Pulmonary Function in Thoracic Adolescent Idiopathic Scoliosis

Roy James; **K. Aaron Shaw, DO, FAAOS**; Michael Benvenuti, MD; John Anderson, MD; Richard Schwend, MD
The Children's Mercy Hospital, Kansas City, MO, United States

ePoster 60

Blood Loss and Allogenic Transfusion Is Significantly Lower in the Modern Era of Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis

Terrence Ishmael, MBBS; Steven Hwang, MD; Joshua Pahys, MD; Suken Shah, MD; Satoshi Takada; V. Salil Upasani, MD; Nicholas Fletcher, MD; Tracey Bryan, MA; Peter Newton, MD; Harms Study Group; Amer Samdani, MD
Shriners Children's Philadelphia, Philadelphia, PA, United States

ePoster 61

Clinical Validation of Real Time Topographical Assessment Using 3D Imaging Software

Firoz Miyanji, MD, FRCSC; Shaina Sim; Hani Alharbi; Abdullah AlDuwaisan
BC Children's Hospital, Vancouver, BC, Canada

ePoster 62

Comparative Outcomes of Spinal Fusion and Vertebral Body Tethering for Lumbar Curve Patterns

Emily Lunde; Adam Rasmussen; Donald Potter; Todd Milbrandt, MD;
A. Noelle Larson, MD
Mayo Clinic, Rochester, MN, United States

ePoster 63

Crankshaft Phenomenon After Definitive Spinal Fusion in Pre-Teens: Should We Be Concerned with Pedicle Screw Constructs?

Jake Goldfarb; Eshan Sane; Christian Wright; Nicholas Speller; Ling Chen; Simon Tang; Keith Bridwell; **Blake Montgomery, MD**
Washington University in St. Louis, St. Louis, MO, United States

ePoster 64

Does Disease Modifying Treatment (DMT) Mitigate Scoliosis in Spinal Muscular Atrophy (SMA)?

Taylor Marie Adams, BS; Patricia Miller, PhD; Lennert Plasschaert, MD, MSc; Ron El-Hawary, MD, MSc; Basil Darras; **Brian Snyder, MD**
Boston Children's Hospital, Boston, MA, United States

ePoster 65

Does Obesity Enhance the Analgesic Effect of Liposomal Bupivacaine in Pediatric Spinal Fusions?

Emmanuel Ogu; Judy-Mae Lima; David Thornberg; Amy McIntosh, MD; Brandon Ramo, MD; Christopher McLeod; **Jaysson Brooks, MD**
Scottish Rite for Children, Dallas, TX, United States

ePoster 66

EEG Suppression and Anesthetic Depth Distinguish True from False Neuromonitoring Alerts in Pediatric Spine Surgery: Timepoint-Level Analysis of 631 Motor Evoked Potential Events

Alex La Poche; Austin Montgomery; John Sestito; James Hutchison; Thomas Romanelli; Andrew Franklin; Gregory Mencia, MD; Jeff Martus, MD; **Craig Louer, MD**
Vanderbilt University Medical Center, Nashville, TN, United States

ePoster 67

Effect of Intraoperative Cranial Traction and Spinal Cord Type on Frequency of Neuromonitoring Alerts in Surgical Adolescent Idiopathic Scoliosis Patients

Ayane Rossano; Cassidy Shields, MD; Zoe Cook; Kirsten Ross, MD;
Brian Kaufman, MD
The University of Texas at Austin - Dell Medical School, Austin, TX, United States

ePoster 68

Evaluating the Effect of Age at Growing Rod Insertion on Final T1-T12 Height

Blake Montgomery, MD; Patrick Cahill, MD; Scott Luhmann, MD; Simon Tang; Michael Heffernan, MD; Pediatric Spine Study Group; Brett Lullo, MD
Washington University in St. Louis, St. Louis, MO, United States

ePoster 69

Flex on 'em: A Novel Flexibility Index Classification System for AIS

Mackenzie Morris; Margaret Sullivan; Chiara Morley-McLaughlin; Shanika De Silva; David Liu, MD; **Grant Hogue, MD**
Boston Children's Hospital, Boston, MA, United States

ePoster 70

Frequency and Variability of Radiographs for EOS Patients Undergoing Casting Over 15+ Years and 3500+ Casts: Are We Getting Better?

Alex La Poche; Michael Burton; Lorena Floccari, MD; A. Noelle Larson, MD; Tina Szocik; Jessica Young; Paul Sponseller, MD, MBA; Peter Sturm, MD; Michal Szczodry; **Craig Louer, MD**, Pediatric Spine Foundation
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ePoster 71

Golden Responders: Which Early Onset Scoliosis Patients Have Improved Pulmonary Function 2 Years After Surgical Intervention?

Vivek Abraham; Karina Zapata, PT, DPT, PhD; Burt Yaszay; Mark Erickson, MD; Ron El-Hawary, MD, MSc; Pediatric Spine Study Group; Amy McIntosh, MD; Pediatric Spine Foundation
Scottish Rite for Children, Dallas, TX, United States

ePoster 72**Implementation of a Staphylococcus Aureus Decolonization Protocol in Pediatric Spinal Fusion – Trends in Compliance and Infection**

Alex La Poche; Lacie Favret; Ritu Banerjee; Gregory Mencio, MD; Jeff Martus, MD; **Craig Louer, MD**
Vanderbilt University Medical Center, Nashville, TN, United States

ePoster 73**Improved Outcomes after Vertebral Body Tethering for AIS using Ideal versus Acceptable Indications**

John Braun, MD; Sofia Federico
Massachusetts General Hospital, Boston, MA, United States

ePoster 74**Intraoperative Neuromonitoring Alerts During Surgery for Congenital Spinal Deformity: Prevalence, Risk Factors, and Outcome**

Anuj Gupta; Brett Shannon, MD; Munish Gupta; Petya Yorgova; Oheneba Boachie-Adjei; Paul Sponseller, MD, MBA; Jennifer Bauer, MD, MS; Burt Yaszay, MD; Purnendu Gupta, MD; Kwadwo Yankey; Peter Newton, MD; Michael Kelly, MD; Amer Samdani, MD; Joshua Pahys, MD; **Suken Shah, MD**; Fox Pediatric Congenital Spinal Deformity Study Group
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ePoster 75**Intraoperative Traction Does Not Improve Curve Correction or Pelvic Obliquity Within a Matched Cohort of Patients with Neuromuscular Scoliosis**

Alastair Sterns; Jacquelyn Valenzuela-Moss; Tyler Tetreault, MD; Tiffany Phan; Efrain Amaro; Ian Fletcher; Gerard Williams; Lindsay Andras, MD; **Michael Heffernan, MD**
Children's Hospital Los Angeles, Los Angeles, CA, United States

ePoster 76**Lost in Translation: Limited Agreement Between Proxy and Self-Reported Outcomes in Early-Onset Scoliosis**

Nathan Houlihan; Sara Morgan, PhD; Jeffrey Sawyer, MD; Walter Truong, MD; **Ying Li, MD**; Pediatric Spine Study Group
University of Michigan, Ann Arbor, MI, United States

ePoster 77**Multi-disciplinary Quality Improvement Project Lowers Surgical Site Infection Rates after Posterior Spinal Fusion in Patients with Cerebral Palsy**

Anuj Gupta; **Satoshi Takada**; Zhe Yuan; Brett Shannon, MD; Jason Howard, MD, FRCSC; M. Wade Shrader, MD
Nemours Children's Hospital, Delaware, Wilmington, DE, United States

ePoster 78**Navigation-Assisted Modified Reverse Bohlman Procedure for Multilevel Anterior Fusion in Pediatric Myelomeningocele: A Case Report**

David Foley; **Wasim Shihab, MD**; Tyler Christman, DO, MS; Aki Puryear, MD, MHA, MS, FRCS
Riley Children's Hospital, Indianapolis, IN, United States

ePoster 79**Neural Axis Abnormalities and Neurosurgical Interventions in Patients Undergoing Surgery for Adolescent Idiopathic Scoliosis**

Kevin Neal, MD; Ramin Espandar, MD; Taghi Ramazanian; Mona Mathew; Anna Rambo, MD
Nemours Children's Health, Jacksonville FL, United States

ePoster 80**New Pedicle Screw Stimulation Technique Can Identify Medial Pedicle Breeches**

Vivien Chan; Kenneth Illingworth, MD; Andy Nguyen; Jeffrey Chung; David Skaggs, MD
Cedars-Sinai, Los Angeles, CA, United States

ePoster 81**Nighttime Bracing Is Equivalent to Full-time Bracing in Avoiding Curve Progression to Surgery in AIS Curves 20-35°**

Karina Zapata, PT, DPT, PhD; **Banahene Glover, BS**; Alexander Palma; Kara Davis; Chan-Hee Jo, PhD; Megan Johnson, MD
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ePoster 82**Non-Operative Treatment of Early Onset Scoliosis in Neurofibromatosis-1**

Joseph Magoline; Ethan Samora; Ryan Fitzgerald, MD; Michelle Welborn, MD; Pediatric Spine Study Group; **Lorena Floccari, MD**; Pediatric Spine Study Group
Akron Children's Hospital, Akron, OH, United States

ePoster 83**Non-operative Treatment Protocol for the Management of Acute Spondylolysis in Adolescent Athletes: Excellent Rates of Return to Sport and Clinical Resolution in 179 Patients**

Patrick Nian; Amith Umesh; Ithika Senthilnathan; Isabella Marsh; Austin Kaidi; Shevaun Doyle, MD; John Blanco, MD; Roger Widmann, MD; **Jessica Heyer, MD**
Hospital for Special Surgery, New York, NY, United States

ePoster 84**Outcomes After Surgical Correction of Severe Scoliosis in Patients with Osteogenesis Imperfecta: A Prospective Study with Radiographic and Patient-Reported Outcomes**

Satoshi Takada; Suken Shah, MD; Hiroshi Taneichi; Anuj Gupta; Petya Yorgova; Andrea Elsby; Tyler McDonald, MD; Richard Kruse, DO, MBA; Jeanne Franzone, MD
Nemours Children's Hospital, Delaware, Wilmington, DE, United States

ePoster 85**Point of Care Spirometry in Children with Early Onset Scoliosis: A Prospective Study**

Klane White, MD; Sungmin Kim; Patrick Cahill, MD; Viral Jain, MD; Megan Johnson, MD; Amy McIntosh, MD; Kevin Smit, MD; Brian Snyder, MD; Gregory Redding; Pediatric Spine Study Group Children's Hospital Colorado, Aurora, CO, United States

ePoster 86 ◆**Predicting Non-Idiopathic Scoliosis from Plain Radiographs: A Deep Learning Approach**

Kellen Mulford; Hans Nugraha, MD; Julia Todderud; Andrew Pumford; Todd Milbrandt, MD; Mel Helgeson; **A. Noelle Larson, MD**
Mayo Clinic, Rochester, United States

ePoster 87**PROMIS Anxiety is Responsive in Assessing Suicide Risk in Adolescents with Spine Concerns**

Karina Zapata, PT, DPT, PhD; Emily Gale; Caroline Roberts; Paloma Merida; Chan-Hee Jo, PhD; **Brandon Ramo, MD**
Scottish Rite for Children, Dallas, TX, United States

ePoster 88**Rib Resectioning Increases Pain and Opioid Consumption in Adolescent Idiopathic Scoliosis Patients Undergoing Posterior Spinal Fusion**

Vishal Sarwahi, MBBS, MS; Anabelle Cohen; Alexander Morledge; Katherine Eigo; Brian Li; Jay Modi; Viraaj Sarwahi; Victor Koltenyuk; Aravind Patil; Yungtai Lo; Jon Paul DiMauro, MD; Terry Amaral, MD
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ePoster 89**Robotic-Assisted and Computer-Assisted Navigation in Posterior Spinal Fusion for Idiopathic Scoliosis is Associated with Decreased Intraoperative Radiation Dose but Increased Overall Cumulative Dose Compared to Freehand Technique**

Isabella Marsh; Ithika Senthilnathan; Patrick Nian; John Carrino; John Blanco, MD; Roger Widmann, MD;
Jessica Heyer, MD
Hospital for Special Surgery, New York, NY, United States

ePoster 90**Safe, Satisfied, and Home Early: Patient Reported Outcomes of Next-Day Discharge in AIS**

Alyssa Barré, MD; Andrew Kirk; Vincent Prusick, MD; Shelby White;
Ryan Muchow, MD
University of Kentucky, Lexington, KY, United States

ePoster 91**Sealing the Deal: Incisional Vacuum-Assisted Closure Reduces Infection Following Neuromuscular Posterior Spinal Fusion**

Maia Regan; Colby Freeman; Nakul Talathi, MD; David Spiegel, MD; John "Jack" Flynn, MD; **Keith Baldwin, MD**
Children's Hospital of Philadelphia, Philadelphia, PA, United States

ePoster 92**Second Generation 2-5 Year Results of Vertebral Body Tethering of Adolescent Idiopathic Scoliosis**

Lawrence Haber, MD; Samantha Ahrens; Melanie Boeyer, PhD; Daniel Hoernschemeyer, MD; A. Noelle Larson, MD
Ochsner Health, Jefferson, LA, United States

ePoster 93**Should We Rely on Abnormal Neurological Exam and X-ray to Detect Syringomyelia/Chiari Malformation in Patients with Scoliosis?**

Lucas Budd; Jennifer Strahle; John Vorhies, MD; Simon Tang;
Blake Montgomery, MD
Washington University in St. Louis, St. Louis, MO, United States

ePoster 94**The Closing Argument: A Randomized Controlled Trial of Three Spinal Wound Closure Methods for Adolescent Idiopathic Scoliosis (AIS)**

Alastair Sterns; Pasha Shakoory; John Wyatt; Tishya Wren, PhD; Jasmine Gasca, PA-C; Kenneth Illingworth, MD; Tyler Tetreault, MD; Michael Heffernan, MD; Vernon Tolo, MD; David Skaggs, MD; **Lindsay Andras, MD**
Children's Hospital Los Angeles, Los Angeles, CA, United States

ePoster 95**The Evolution of Sagittal Alignment in Pediatric Population: A Study of 500 Typically Developing Children**

Anuj Gupta; Alexander Aretakis, MD; Satoshi Takada; Peter Gabos, MD; Petya Yorgova; Andrea Elsby;
Suken Shah, MD
Nemours Children's Hospital, Delaware, Wilmington, DE, United States

ePoster 96**The Prevalence of Spondylolisthesis in Operative Adolescent Idiopathic Scoliosis**

John Stelzer, MD; Katerina Kourpas; Joshua Murphy, MD; John "Jack" Flynn, MD; Patrick Cahill, MD; **Jason Anari, MD**; Harms Study Group
Children's Hospital of Philadelphia, Philadelphia, PA, United States

ePoster 97**The Influence of Intrathecal Baclofen Pumps on Outcomes Following Spinal Fusion in Non-ambulatory Patients with Cerebral Palsy**

Lexi Larson; Daniel Miller, MD; Luis Torres-Gonzalez; Tenner Guillaume, MD; **Walter Truong, MD**; Joseph Perra, MD; Linda Krach; Maykala Williams; Sara Morgan, PhD
Gillette Children's, St. Paul, MN, United States

ePoster 98**The Modified Clavien-Dindo-Sink (mCDS) Grading System May Lead to Elevated Casting Complication Severity in Early Onset Scoliosis (EOS) Patients**

Elinor Stern; Elizabeth Kappler; Jason Anari, MD; Sumeet Garg, MD; **Ying Li, MD**; Pediatric Spine Study Group
University of Michigan, Ann Arbor, MI, United States

ePoster 99**Utilizing Robotic-Assisted Navigation in Early Onset Scoliosis: A Multicenter Perspective**

Christopher Williams; Isabella Marsh; Margaret Sullivan; Daniel Hedequist, MD; Mark Erickson, MD; Craig Birch, MD; Grant Hogue, MD; Michael Hresko, MD; Kirsten Ross, MD; Robert Murphy, MD; Dennis Devito, MD; Roger Widmann, MD; **Jessica Heyer, MD**; The Spine Procedure Assisted with RoboTic And Navigation (SPARTAN) Group Hospital for Special Surgery, New York, NY, United States

SPORTS**ePoster 100****Absorbable Single-Stay Suture Bridge Fixation for Osteochondral Fractures Following Patellar Dislocation**

Henry Ellis, MD; Hayes Martin; Keinan Agonias; Benjamin Johnson; Colby Wilkens; Bobby Van Pelt, MPH; Charles Wyatt, NP; John Arvesen, MD; Philip Wilson, MD
Scottish Rite for Children, Dallas, TX, United States

ePoster 101**Adapted Ballet as a Musculoskeletal Intervention for Children with Autism Spectrum Disorder: A Pilot Study**

Camila Vicioso; Taylor Mustapich; **Sheena Ranade, MD**
Icahn School of Medicine at Mount Sinai, New York, NY, United States

ePoster 102**An Extra-Osseous Femoral and Trans-Physal Tibial Iliotibial Band Graft Anterior Cruciate / Lateral Tenodesis Reconstruction (Hybrid ITB ACLR) Provides Excellent Outcomes in Pediatric Patients**

Philip Wilson, MD; Zachary Quanbeck; Charles Wyatt, NP; Antonia Dinulescu; Benjamin Johnson; Henry Ellis, MD
Scottish Rite for Children, Dallas, TX, United States

ePoster 103**Cargo Net Fixation of Osteochondral Defect (OCD) in the Setting of Medial Patellofemoral Ligament (MPFL) Reconstruction**

Rachel Randall, MD
Marshfield Clinic, Marshfield, WI, United States

ePoster 104**Clinical Outcomes and Return-to-Sport Rates in Skeletally Mature Adolescents with TT-TG ≥ 20 mm Treated with MPFL Reconstruction with or Without TTO**

Lucas De Virgilio; Matthew Milewski, MD; Emma Gossman; Subrina Farah; Kaellan Foudray; Mininder Kocher, MD, MPH; Dennis Kramer, MD; Yi-Meng Yen, MD; Benton Heyworth, MD
Boston Children's Hospital, Boston, MA, United States

ePoster 105**Clinical, Radiological and Functional Outcomes of MPFL Reconstruction in Adolescents With Patella Alta: Is Distal Realignment Really Necessary?**

Alberto Losa Sánchez; **Joaquín Nuñez De Armas, MD**; Luis Moraleda Novo, MD, PhD
Hospital Universitario La Paz, Madrid, Spain

ePoster 106**Comparing Knee Function and Psychological Readiness After Revision ACL Reconstruction Compared to Primary Reconstruction**

Melissa Christino, MD; Dai Sugimoto; Angelina Sala; Danielle Hunt; Mininder Kocher, MD, MPH; Dennis Kramer, MD; Yi-Meng Yen, MD; Matthew Milewski, MD
Boston Children's Hospital, Boston, MA, United States

ePoster 107**Comparing MPFL Reconstruction With and Without Tibial Tubercle Osteotomy in Adolescents With High TT-TG Intervals**

Rajvarun Grewal; Andrew Pennock, MD; Garrett Berger; James Bomar, MPH; **Eric Edmonds, MD**
Rady Children's Health, San Diego, CA, United States

ePoster 108**Coronal Alignment in Pediatric Discoid Lateral Meniscus**

Smaran Garlapati; Javier Masquijo, MD; Keinan Agonias; **Henry Ellis, MD**; Philip Wilson, MD
Scottish Rite for Children, Dallas, TX, United States

ePoster 109**Do Tibial Tubercle Osteotomies Delay Strength Recovery After MPFL Reconstruction? A Pediatric Patellofemoral Instability Cohort Study**

Ryan Turlip; Caroline Kim; Monika Thothadri; Elliot Greenberg, DPT, PhD; **Brendan Williams, MD**
Children's Hospital of Philadelphia, Philadelphia, PA, United States

ePoster 110 ◆**Dynamic Assessment of Axial Patellofemoral Alignment Using Point of Care Ultrasound**

Elliot Greenberg, DPT, PhD; Sean Owens; Caroline Kim; Naomi Brown; Brendan Williams, MD; **J. Todd Lawrence, MD, PhD**
Children's Hospital of Philadelphia, Philadelphia, PA, United States

ePoster 111**Effect of Post-Operative J-sign and Apprehension on Outcomes following isolated Medial Patellofemoral Ligament Reconstruction in the Skeletally Immature patients**

Alyssa Althoff; Elizabeth Dennis; Honor Paine; Natalie Pahapill; Audrey Wimberly; Matthew Veerkamp; Joseph Nguyen; Jacqueline Brady; Eric Wall, MD; Henry Ellis, MD; Daniel Green, MD; Benton Heyworth, MD; Philip Wilson, MD; Beth Shubin Stein; **Shital Parikh, MD, FACS**
Cincinnati Children's Hospital Medical Center, Cincinnati, OH, United States

ePoster 112**Impact of Obesity on Outcomes Following Isolated Medial Patellofemoral Ligament Reconstruction for Patellofemoral Instability In Adolescents**

Lasun Oladeji; Seth Sherman; Honor Paine; Matthew Veerkamp; Daniel Green, MD; Philip Wilson, MD; Henry Ellis, MD; Benton Heyworth, MD; Eric Wall, MD; Beth Shubin Stein; **Shital Parikh, MD, FACS**

Cincinnati Children's Hospital Medical Center, Cincinnati, OH, United States

ePoster 113**Influenced by Emotions: Comparing the Relationship Between PROMIS and ACL-RSI Following Primary and Secondary ACL Reconstruction**

Brendon Mitchell; Stone Streeter; Kevin Xu; Devin Genderson; Akbar Syed; Kevin Landrum; Sulagna Sarkar; J. Todd Lawrence, MD, PhD; Brendan Williams, MD; Christopher DeFrancesco, MD; **Theodore Ganley, MD**

Children's Hospital of Philadelphia, Philadelphia, PA, United States

ePoster 114**Is There an Association Between Abnormal Patellofemoral Morphology and Patellofemoral Osteochondritis Dissecans in Pediatric Patients?**

Casey Kuka; Akbar Syed; Brendon Mitchell; Kevin Landrum; Sulagna Sarkar; **Theodore Ganley, MD**

Children's Hospital of Philadelphia, Philadelphia, PA, United States

ePoster 115**Lateral Augmentation Techniques Increase Risk of Arthrofibrosis After ACL Reconstruction in Children and Adolescents: A Multi-Institutional Database Study**

Soroush Baghdadi, MD; Christopher Hamad; Joshua Wiener; Timothy Liu; Soroush Shahamatdar; William Sheppard; Mauricio Silva, MD

UCLA Health, Los Angeles, CA, United States

ePoster 116**Lateral Extra-Articular Tenodesis Increases Risk of Arthrofibrosis Following ACL Reconstruction in the Pediatric Population**

Soroush Baghdadi, MD; Christopher Hamad; Kole Joachim; Esther Chung; Richard Bowen, MD;

Phillip Wilson, MD

UCLA Health, Los Angeles, CA, United States

ePoster 117**Modified Macintosh Anterior Cruciate Ligament Reconstruction Provides Excellent Outcomes for the Treatment of ACL Tears in Pediatric Patients**

Philip Wilson, MD; Zachary Quanbeck; Charles Wyatt, NP; Antonia Dinulescu; Benjamin Johnson; Henry Ellis, MD

Scottish Rite for Children, Dallas, TX, United States

ePoster 118**Multicenter Comparison of Resorbable Versus Non-resorbable Suture Fixation in Pediatric Tibial Spine Fractures**

Akbar Syed; Devin Genderson; Theodore Ganley, MD; Neeraj Patel, MD, MPH; **Scott McKay, MD**; Tibial Spine Research Interest Group

Texas Children's, Houston, TX, United States

ePoster 119**Outcomes and Complications of Bony Bankart Repair in the Adolescent Population**

Rajvarun Grewal; Garrett Berger; **Andrew Pennock, MD**; James Bomar, MPH; Eric Edmonds, MD

Rady Children's Health, San Diego, CA, United States

ePoster 120**Piecing It Back Together: Predictors of Repair of Osteochondral Loose Bodies in Adolescent Patellofemoral Instability**

Ryan Turlip; Caroline Kim; Monika Thothadri; J. Todd Lawrence, MD, PhD; Theodore Ganley, MD; Neeraj Patel, MD, MPH; **Brendan Williams, MD**

Children's Hospital of Philadelphia, Philadelphia, PA, United States

ePoster 121**Pre-Operative Jumping J-Sign May Predict Worse Outcomes Following Patellar Stabilization Surgery in Adolescent Patients**

Matthew Bollier; Matthew Veerkamp; Honor Paine; Natalie Pahapill; Daniel Green, MD; Philip Wilson, MD; Henry Ellis, MD; Benton Heyworth, MD; Eric Wall, MD; Beth Shubin Stein;

Shital Parikh, MD, FACS

Cincinnati Children's Hospital Medical Center, Cincinnati, OH, United States

ePoster 122**Quantifying Risk Factors for Osteochondritis Dissecans in a Pediatric Population: A 30 million Patient Propensity-Matched Retrospective Cohort Study**

Joseph Magoline; Daniel Wagner; David Kaelber; **R. Justin Mistovich, MD, MBA**

University Hospitals Cleveland Medical Center, Cleveland, OH, United States

ePoster 123**Rates of Subsequent Fulkerson Osteotomies After Primary Medial Patellofemoral Ligament Reconstruction in Skeletally Immature Versus Mature Pediatric Patients**

Jacob Carl, MD; Ted Sousa, MD;

Rina Yan

Shriners Children's Spokane, Spokane, WA, United States

ePoster 124**The Glenoid Track Width is Smaller Under Dynamic Loading Conditions during Functional Daily Activities: A Finite Element Analysis Study**

Christian Klemt; Tetsuro Sueyoshi;

Charles Chan, MD, Mauricio

Drummond, MD

Stanford Health Care, Palo Alto, CA, United States

ePoster 125**The Multi-Level Axial Patellofemoral Score (MAPS) to Stratify Trochlear Dysplasia Severity**

Jason Brenner; Steven Henick; Mohamed Said; Leila Mehraban Alvandi, PhD; Edina Gjonbalaj; Yungtai Lo; Jacob Schulz, MD;

Eric Fornari, MD; Benjamin Levy;

Mauricio Drummond, MD

Montefiore Einstein, Bronx, NY, United States

ePoster 126

Unstable Condylar Osteochondritis Dissecans Lesions Treated with Suture Bridge Fixation Have High Rates of Osseous Union and Low Rates of Osteochondral Allograft Conversion

Philip Wilson, MD; Keinan Agonias; Charles Wyatt, NP; Benjamin Johnson; John Arvesen, MD; Henry Ellis, MD
Scottish Rite for Children, Dallas, TX, United States

TRAUMA

ePoster 127 ♦

Cast Length in Distal Radius Fractures has Significant Impact on Patient-Reported Outcomes

Rebecca Aguiar, BS; Patricia Miller, PhD; Apurva Shah, MD, MBA; Mark Miller, MD; Michael Willey; Donald Bae, MD;
Susan Mahan, MD, MPH
Boston Children's, Boston, MA, United States

ePoster 128

Cracks in the Healing Code: Risk Factors for Nonunion following Pediatric Scaphoid Fracture

Simon Blanchard; Dev Laungani; Stone Streeter; Casey Kuka; Sayaka Mori; Sulagna Sarkar; Mary Claire Manske, MD; **Apurva Shah, MD, MBA**
Children's Hospital of Philadelphia, Philadelphia, PA, United States

ePoster 129

Development and Validation of an Automated Pipeline for the Detection of Monteggia Fractures in Pediatric Radiographs

Sundeep Chakladar; Daniel Pereira; **Neset Tang;** Rohit Siddabattula; Muhammad-Amin Munshi; Pooya Hosseinzadeh, MD
Washington University in St. Louis, St. Louis, MO, United States

ePoster 130

Elastic Stable Intramedullary Nail (ESIN) Treatment of Pediatric Tibial Shaft Fractures: Patients > 75 pounds Have Higher Risk Malunion

Charles Mehlman, DO, MPH
Dayton Children's Hospital, Dayton, OH, United States

ePoster 131

From Fracture to Contracture: Predictors of Elbow Stiffness following Medial Epicondyle Fractures

Amanda Moser; Sayaka Mori; Sulagna Sarkar; Edward Dockery; Mary Claire Manske, MD; **Apurva Shah, MD, MBA**
Children's Hospital of Philadelphia, Philadelphia, PA, United States

ePoster 132

Identifying Radiographic Predictors of Successful Management of Pediatric Radial Neck Fractures: Should a Closed Reduction Always Be Attempted Prior to Surgery?

Molly Hulbert; Alexander Chang; James Bomar, MPH; **Eric Edmonds, MD**
Rady Children's Health, San Diego, CA, United States

ePoster 133

Incidence and Long-Term Outcomes of Pediatric Medial Epicondyle Fractures: A 10- to 50-Year Population-Based Study

Todd Milbrandt, MD; Hans Nugraha, MD; Quinn Johnson; Sarah Ridenour; Aliya Feroe, MD, MPH; Adam Rasmussen; Kristin Fruth; William Shaughnessy, MD; A. Noelle Larson, MD; Anthony Stans, MD
Mayo Clinic, Rochester, United States

ePoster 134

Incidence of Adverse Clinical Outcomes of Femoral Neck Fractures in a Pediatric Population

Lance Lew; **Soroush Baghdadi, MD;** Patricia Miller, PhD; Jill Larson, MD
Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, United States

ePoster 135

Initial Misdiagnosis of Slipped Capital Femoral Epiphysis: Who is at Risk and What is the Impact?

Arun Movva; Emily DeMaio; Ilona Lukina; Bryce Maxwell; Romie Gibby, MD, PHD; **Neeraj Patel, MD, MPH**
Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, United States

ePoster 136

Is Reduction Necessary? Treating Overriding Distal Radius Fractures in Skeletally Immature Children Over 10 Years Old

Semran Thamer; **Brian Kaufman, MD;** Trayce Gray; Matthew Ellington, MD
The University of Texas at Austin - Dell Medical School, Austin, TX, United States

ePoster 137

Ketorolac Administration During Admission is Not Associated with Non-union Following Treatment of Pediatric and Adolescent Femoral Shaft Fractures

Ashley Ellingwood; Daniel Woo; Richard Campbell; Christopher Souder, MD; Patrick Curran, MD; James Bomar, MPH; **Rachel Thompson, MD**
Rady Children's Health, San Diego, CA, United States

ePoster 138

Not All Reductions Are Equal: Radiographic Predictors of Stiffness After Lateral Condyle Fixation

Simon Blanchard; Casey Kuka; Wudbhav Sankar, MD; Christine Goodbody; Keith Baldwin, MD; **Nakul Talathi, MD**
Children's Hospital of Philadelphia, Philadelphia, PA, United States

ePoster 139

Operative treatment vs Spica Casting for Treatment of Pediatric Femoral Shaft Fractures in Children Aged 4-6 Years: A Large Multi institutional Age-Stratified Comparative Analysis

Yamen Abbas; Travis Kotzur; Muhammad-Amin Munshi; Blaire Peterson; **Javad Shariati;** Pooya Hosseinzadeh, MD
Washington University in St. Louis, St. Louis, MO, United States

ePoster 140

Proximal Humerus Fracture-Dislocation in a Toddler: A Critical and Easily Missed Diagnosis

Amr Abdelgawad, MD, MBA; Ahmed Hagag, MD, PhD; Ahmed Sabry; Mohamed Said
Maimonides Medical Center, Brooklyn, NY, United States

ePoster 141**Quantifying Proximal Tibial Physeal Injury in Rigid Intramedullary Nailing in Adolescent Patients**

Stephanie Kha, MD; Michael Johnston; Justin Ryan; Christine Farnsworth, MS; Matthew Schmitz, MD; Madeleine Jackson, MD; Christopher Souder, MD
Rady Children's Health, San Diego, CA, United States

ePoster 142**Risk Factors and Surgical Sequelae of Physeal Arrest in Pediatric Salter-Harris III and IV Medial Malleolus Fractures**

Owen Roth; Apeksha Gupta; Tolu Adebayo; **Mike Tretiakov, MD**
Seattle Children's Hospital, Seattle, WA, United States

ePoster 143 ♦**Skeletal Survey Utilization in Non-Accidental Trauma Workup for Pediatric Femur Fractures**

Maria Canizares, MD, MPH; Walter Truong, MD; Wendy Ramalingam, BS, MD; Collin May, MD, MPH; Patricia Miller, PhD; Scott Rosenfeld, MD; Benjamin Shore, MD, MPH, FRCSC
Boston Children's, Boston, MA, United States

♦ Research supported by POSNA grant

ePoster 144 ♦**Trusting Your Spider Sense... the Value of Clinical Examination and Laboratory Investigation in the Workup of Non-Accidental Trauma**

Maria Canizares, MD, MPH; Kristin Livingston, MD; Patricia Miller, PhD; Scott Rosenfeld, MD; Benjamin Shore, MD, MPH, FRCSC; CORTICES Study Group
Boston Children's Hospital, Boston, MA, United States

ePoster 145**Untangling the Fishtail: Characterization and Management of Fishtail Deformity Following Pediatric Elbow Fractures**

Andrew Kim; Scott Mahon, BS; Brendon Mitchell; Christine Goodbody; **Apurva Shah, MD, MBA**
Children's Hospital of Philadelphia, Philadelphia, PA, United States

ePoster 146**Use of Allograft for Early Treatment of Traumatic Bone Defects in Children**

Amr Abdelgawad, MD, MBA; Ahmed Hagag, MD, PhD; Ahmed Sabry; Mohamed Said
Maimonides Medical Center, Brooklyn, NY, United States

ePoster 147**Utilizing a Dynamic Abduction Brace for Femur Fractures Eliminates the Need for Spica Car Seats**

Paola Rullan Oliver; Adam Rasmussen; Todd Milbrandt, MD; **Anthony Stans, MD;** Emmanouil (Manos) Grigoriou, MD; A. Noelle Larson, MD
Mayo Clinic, Rochester, MN, United States

ePoster 148**Validation of the Patient-Reported Outcomes of Fracture Healing (PROOF-LE) Questionnaire for Femur Fractures in Children**

Unni Narayanan, MD, FRCSC; Stanley Moll; Anne Murphy; Mark Camp, MD; Jason Sheng; Emma Nachshen; Akash Komalanathan
The Hospital for Sick Children (SickKids), Toronto, Ontario, Canada

ePoster 149**Variation Amongst Orthopedic Surgeons Regarding the Treatment of Pediatric and Adolescent Proximal Humerus Fractures**

Jackson Elkins; Thomas Pallan; **Joshua Abzug, MD**
University of Maryland School of Medicine, Baltimore, MD, United States

2025 AMERICAN ACADEMY OF PEDIATRICS (AAP) SECTION ON ORTHOPAEDICS YOUNG INVESTIGATOR AWARD WINNERS

A Pediatric Knee Injury Score Can Predict Need for Surgery

Emma S. Raffman, BS; Michael O. Sohn, BS; Michael B. Navarro, BS; Cassandra Dumelle; Neeraj M. Patel, MD, MPH, MBS
Division of Orthopaedic Surgery and Sports Medicine,
Ann and Robert Lurie Children's Hospital, Chicago, IL

Do Prophylactic Antibiotics Decrease Risk of Infection in Closed Percutaneous Pinning of Pediatric Hand Fractures?

Christine A. Ho, MD; Benjamin Montanez, MD; Sonia Chaudhry, MD; Hilton Gottschalk, MD; Andrea Bauer, MD; Krister Freese, MD, **Chinelo Onubogu, BA;** Adam P. Weaver, PT,

DPT; Anthony Minopoli, BS; Taylor K. Zak, MD; Bhavana Gunda, BS; Niamh McMahon, MS; Rishob Dasgupta, BS; Henok Haile, BS; Julie Samora, MD
Scottish Rite for Children, Dallas, TX

Don't Sweat It: Impact of Room Temperature on Patient Temperature During Pediatric Spine Surgery

Luke Drake, MD, Abigail Padilla, BS, **Ellen Tahmasyan, BS,** John Wyatt, BS, Michael J. Heffernan, MD, Tyler A. Tetreault, MD, Tishya Wren, PhD, Johnathan Tan, MD, Lindsay M. Andras, MD
Jackie and Gene Autry Orthopaedic Center, Children's Hospital of Los Angeles, Los Angeles, CA

The Effect of Transportation Barriers on the Risk of Relapse for Idiopathic Clubfoot

Annika Y. Myers, BS; Melissa A. Bent, MD; Tiffany Phan, BS; Abigail Padilla, BS; **John Wyatt, BS;** Tishya A.L. Wren, PhD; Rachel Y. Goldstein, MD, MPH
Jackie and Gene Autry Orthopaedic Center, Children's Hospital Los Angeles, Los Angeles, CA

Relative closure of growth plates in the upper and lower extremity using a serial radiographic collection

Marlee R. Yancey, BA; Neelufar Raja, BA; Ryan J. Furdock, MD; Raymond W. Liu, MD
Rainbow Babies and Children's Hospitals at Case Western Reserve University, Cleveland, OH

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A Comparative Analysis of Radiation Exposure During Posterior Spinal Fusion

Akron Children's Hospital, Akron, OH

Harry Kim, MD — \$2500

(Funded in part by Novadip)

A Novel Surgical Approach to the Treatment of Pediatric Femoral AVN

Scottish Rite for Children, Dallas, TX

Eric Mao — \$2300

Assessing Role of Gut Health in Infections following Scoliosis Surgery

Johns Hopkins University School of Medicine, Baltimore, MD

Michael Vitale, MD, MPH — \$2500

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Columbia University Irving Medical Center, New York, NY

Holly Aitken, PhD — \$2,500

Bone Remodeling and Contact Stress After Slipped Capital Femoral Epiphysis

The University of Iowa, Iowa City, IA

Lauren Hyer, MD — \$2,500

Stronger Starts: Prehab Pilot for Gait Surgery in CP

Shriners Hospitals for Children-Greenville, Greenville, SC

Kali Tileston, MD — \$2,500

Snap-On Ponseti: Low-Cost 3D-Printed Shoe-Clips for Foot Abduction Orthoses

Stanford University, Stanford, CA

Lindley Wall, MD — \$2,500

Photovoice in Adolescent Upper Extremity Deficiency

Washington University in St. Louis, St. Louis, MO

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Brandon Ramo, MD



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Role of Sex Hormones in Epiphyseal Development

Vanderbilt University Medical Center, Nashville, TN

ST. GILES YOUNG INVESTIGATOR AWARD

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Long-Term Functional Outcome of Late-Detected Developmental Hip Dislocation

Scottish Rite for Children, Dallas, TX

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Transverse Bone Transport Enhances Limb Vascularization in a Goat Model

The Research Institute at Nationwide Children's Hospital, Columbus, OH

Alvin Su, MD, PhD — \$50,000

Knee Biomechanics after Pediatric Meniscus Repair and ACL Reconstruction

Nemours Children's Hospital, Wilmington, DE

POSNA RESEARCH GRANTS (2)

Elliot Greenberg, PhD — \$20,000

Ultrasound-based Imaging for Patellofemoral Instability

The Children's Hospital of Philadelphia, Philadelphia, PA

Jessica Heyer, MD — \$20,000

Correlating PFTs to Surface Topography in Patients with Spinal Deformity

The Hospital for Special Surgery, New York, NY

ROSHEN N. IRANI RESEARCH GRANT

Selina Poon, MD — \$20,000

Evidence-Based Guidelines for Opioids After Pediatric Orthopedic Surgeries

Shriners Children's, Southern California, Sacramento, CA

ROSHEN N. IRANI RESEARCH TRAINING GRANT

Emma Payne, MD — \$9,900

Neurofilament Light Chain as a Biomarker for Brachial Plexus Birth Injury

Washington University School of Medicine, St. Louis, MO

POSNA PETER ARMSTRONG QSVI GRANT

Benjamin Royce, MD, MPH — \$30,000

Traction for Success: Improving Outcomes with a Halo Program

Columbia University Irving Medical Center, New York, NY





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