



# 2025 POSNA Annual Meeting

- ▶ Exciting New Research
- ▶ Friendships and Networking
- ▶ Outstanding Academics
- ▶ Engaging Programs



**May 14-16**

**Las Vegas, Nevada  
Caesars Palace**

**President:** Todd Milbrandt, MD

**Program Chair:** Julie Balch Samora,  
MD, PhD, MPH, FAAOS, FAOA

**Local Host:** David Stewart, MD



**POSNA**  
PEDIATRIC ORTHOPAEDIC SOCIETY  
OF NORTH AMERICA

# ACKNOWLEDGMENTS



**POSNA**  
PEDIATRIC ORTHOPAEDIC SOCIETY  
OF NORTH AMERICA

The Pediatric Orthopaedic Society of North America gratefully acknowledges the following for their generous financial support in 2024.

## EMERALD LEVEL (\$300,000+)



## DOUBLE DIAMOND LEVEL (\$150,000 - \$299,999)



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## DIAMOND LEVEL (\$100,000 - \$149,999)

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nView medical  
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Scottish Rite for Children  
Stanford Medicine Children's Health  
University of Pittsburgh  
Washington University St. Louis

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*“The most valuable thing about the meeting? Connecting with people, discussion ideas and hot topics, planning for future meetings/projects/questions, meeting new people”*

Amanda Whitaker, MD

## **DATES TO REMEMBER**

Early Registration Deadline April 8, 2025  
Housing Deadline April 15, 2025  
Pre-Registration Deadline May 13, 2025  
On-Site Registration Rate Starts May 14, 2025

## **FUTURE ANNUAL MEETINGS**

May 6-8, 2026 Orlando, FL  
April 27-29, 2027 Indianapolis, IN  
May 9-11, 2028 Montreal, QC

## **FUTURE IPOS® MEETINGS**

December 2-6, 2025 Orlando, FL  
December 1-5, 2026 Orlando, FL



# MEET OUR 2025 ANNUAL MEETING PROGRAM COMMITTEE

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

POSNA Program Committee Chair  
Chair, Department of Orthopaedics  
Akron Children's Hospital  
Akron, OH

**Christine Ho, MD, FAAOS, FAAP, FAOA**

Scottish Rite Hospital for Children  
Division Director, Department of Pediatric Orthopaedics,  
Children's Health Dallas  
Professor, Department of Orthopaedics, University of  
Texas Southwestern Medical School  
Dallas, TX

**Anthony Riccio, MD**

Medical Director of Medical Education  
Scottish Rite for Children  
Dallas, TX

**John Vorhies, MD, FAAOS, FAOA**

Director of Scoliosis and Spine Deformity Surgery and  
Research, Assistant Professor of Orthopedic Surgery  
Stanford Medicine Children's Health  
Stanford, CA



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



**Christine Ho, MD,  
FAAOS, FAAP, FAOA**



**Anthony Riccio, MD**



**John Vorhies, MD,  
FAAOS, FAOA**



*"It's an exciting  
program with a diverse  
array of speakers. Can't  
wait to see you there!"*

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



# THANK YOU – REVIEWERS

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

Luiz Carlos Almeida da Silva, MD  
Raghav Badrinath, MD  
Donald Bae, MD  
Soroush Baghdadi, MD  
Claire Beimesch, MD  
John Birch, MD, FRCS(C)  
Jaysson Brooks, MD  
Jessica Burns, MD  
Michelle Caird, MD  
Cordelia Carter, MD  
Reid Chambers, DO, MS  
Sonia Chaudhry, MD, BS, FAAOS, FACS  
Robert Cho, MD  
Allison Crepeau, MD  
Aristides Cruz, MD, MBA  
Lori Dolan, PhD  
Shevaun Doyle, MD  
Andrew Dubina, MD  
Eric Edmonds, MD  
Matthew Ellington, MD  
Bridget Ellsworth, MD  
Drew Engles, MD  
Jill Flanagan, MD  
Nicholas Fletcher, MD  
Lorena Floccari, MD  
Corinna Franklin, MD  
Jeanne Franzone, MD  
John Frino, MD  
Rachel Garfinkel, MD  
Sumeet Garg, MD  
Corey Gill, MD  
Jorge Gomez-Chavarría, MD  
Christine Goodbody, MD, MBE  
Hilton Gottschalk, MD  
Sumit Gupta, MD, MPH  
Arun Hariharan, MD, MS  
Christina Herrero, MD  
Jessica Heyer, MD  
Christine Ho, MD  
Stephanie Holmes, MD  
Jason Howard, MD, FRCSC, FAAOS  
Elizabeth Hubbard, MD  
Aaron Huser, DO  
Lauren Hyer, MD  
Stephanie Iknow, MD  
Christopher Iobst, MD  
Allen Kadado, MD  
Brian Kaufman, MD  
Kevin Klingele, MD  
Steven Koop, MD  
Indranil Kushare MD  
A. Noelle Larson, MD  
Cheryl Lawing, MD  
Ying Li, MD  
Nicholas Lopreiato, MD  
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Chris Makarewich, MD  
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Jeff Martus, MD, MS  
Kathleen McHale, MD  
Jessica McQuerry, MD  
Zachary Meyer, MD  
Kyle Miller, MD  
Barbara Minkowitz, MD  
Michelle Mo, MD, PhD  
William Morris, MD  
Martin Morrison, MD  
José Muñoz Espeleta, MD  
Robert Murphy, MD  
Margaret Siobhan Murphy-Zane, MD  
Kevin Neal, MD, MBA  
Cynthia Nguyen, MD  
Star Nixon, MD, MPH  
Susan Novotny, PhD  
Matthew Oetgen, MD  
Z. Deniz Olgun, MD  
Robert Palmer, MD  
Rubini Pathy, MD  
Jeffrey Peck, MD  
Crystal Perkins, MD  
William Phillips, MD  
John Polousky, MD  
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Vincent Prusick, MD  
Rachel Randall, MD  
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Kirsten Ross, MD  
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Wudbhav Sankar, MD  
Verena Schreiber, MD  
Lior Shabtai, MD  
Apurva Shah, MD, MBA  
Benjamin Sheffer, MD  
Benjamin Shore, MD, MPH, FRCSC  
Micah Sinclair, MD  
Christopher Souder, MD  
Alan Stotts, MD  
Sean Tabaie, MD, MBA, FAAOS, FAOA  
Joshua Tadlock, MD  
Vishwas Talwalkar, MD  
Kali Tileston, MD  
Kirsten Tulchin-Francis, PhD  
Harold van Bosse, MD  
Kelly VanderHave, MD  
John Vorhies, MD  
Janet Walker, MD  
David Westberry, MD  
Amy Williams, MD  
Shirin Zamani, MD  
Natalie Zusman, MD

# MEET YOUR 2025 BREAKOUT SESSION & SYMPOSIA PLANNERS



Donald Bae, MD



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



Corinna Franklin, MD



Christine Ho, MD,  
FAAOS, FAAP, FAOA



Derek Kelly, MD,  
FAAOS, FAOA



Christine Goodbody,  
MD, MBE



Oduche Igboechi, MD,  
MPH, MBA



Anna Rambo, MD



Elinor (Ryn) Berger  
DNP, APRIN, PNP-PC



Paige Wheaton, PA-C



Kevin Neal, MD, MBA



Jennifer Laine, MD



A. Noelle Larson, MD



Apurva Shah, MD, MBA



Laura Bellaire, MD

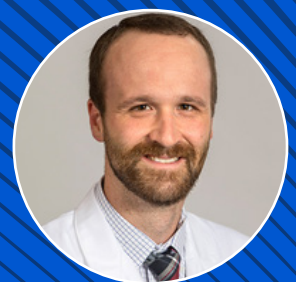


Hilton Gottschalk, MD,  
FAAOS, FAOA

Meet the expert faculty  
that will challenge you to  
think outside the box



Philip McClure, MD



Benjamin Sheffer, MD



# 2025 BREAKOUT SESSION & SYMPOSIA PLANNERS

## BREAKOUT SESSION CHAIRS

### INNOVATIVE MANAGEMENT: PEARLS AND STRATEGIES

#### **Christine Ho, MD, FAAOS, FAAP, FAOA**

Scottish Rite Hospital for Children  
Division Director, Department of Pediatric  
Orthopaedics, Children's Health Dallas  
Professor, Department of Orthopaedics,  
University of Texas Southwestern Medical  
School Medical School, Dallas, TX

#### **Kevin Neal, MD, MBA**

Chief of Pediatric Orthopedic Surgery and  
Pediatric Orthopedic Fellowship Director  
Wolfson Children's Hospital & Nemours  
Children's Health, Jacksonville, FL

### THE BEST CARE FOR EVERY PATIENT: EQUITY IN PEDIATRIC ORTHOPAEDICS

#### **Corinna Franklin, MD**

Associate Professor of Orthopaedics and  
Rehabilitation  
Yale School of Medicine, New Haven, CT

### PEDIATRIC FIREARM-RELATED INJURY FIRESIDE CHAT

#### **Derek Kelly, MD, FAAOS, FAOA**

Professor of Orthopaedic Surgery,  
Orthopaedic Residency Program  
Director, & Pediatric Orthopaedic  
Fellowship Director  
University of Tennessee & Campbell Clinic  
Memphis, TN

### ALL ACES: A MASTERCALL IN PEDIATRIC ORTHOPAEDICS

#### **Donald Bae, MD**

Professor of Orthopaedic Surgery  
Boston Children's Hospital & Harvard  
Medical School, Boston, MA

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

POSNA Program Committee Chair  
Chair, Department of Orthopaedics  
Akron Children's Hospital, Akron, OH

## VIRTUAL SYMPOSIA CHAIRS

### POGO

#### **Christine Goodbody, MD, MBE**

Assistant Professor of Orthopedic Surgery  
The Children's Hospital of Philadelphia &  
University of Pennsylvania  
Philadelphia, PA

#### **Oduche Igboechi, MD, MPH, MBA**

Pediatric Orthopaedic Surgeon  
Advent Health for Children, Orlando, FL

#### **Anna Rambo, MD**

Assistant Professor, Mayo Clinic  
Nemours Children's Health, Florida  
Jacksonville, FL

### POPS

#### **Elinor (Ryn) Berger, DNP, APRN, PNP-PC**

Certified Pediatric Nurse Practitioner  
University of Colorado School of Medicine  
Children's Hospital Colorado  
Colorado Springs, CO

#### **Paige Wheaton, PA-C**

Physician Assistant in the Division of  
Orthopedic Surgery and Sports Medicine  
Texas Children's Hospital, Houston, TX

### PRACTICE MANAGEMENT

#### **Kevin Neal, MD, MBA**

Chief of Pediatric Orthopedic Surgery &  
Pediatric Orthopedic Fellowship Director  
Wolfson Children's Hospital & Nemours  
Children's Health, Jacksonville, FL

### RESEARCH

#### **Jennifer Laine, MD**

Medical Director of Research &  
Associate Professor  
Gillette Children's Specialty Healthcare  
& University of Minnesota Department of  
Orthopaedic Surgery, St. Paul, MN

#### **A. Noelle Larson, MD**

Professor of Orthopaedic Surgery &  
Division Chair  
Mayo Clinic & Community Orthopaedics  
Rochester, MN

#### **Apurva Shah, MD, MBA**

Associate Professor of Orthopaedic  
Surgery, Director of Clinical Research,  
& Director of the Brachial Plexus  
Injury Program  
The Children's Hospital of Philadelphia &  
Perelman School of Medicine at the  
University of Pennsylvania,  
Philadelphia, PA

### SUSTAINABILITY

#### **Laura Bellaire, MD**

Assistant Professor  
University of Utah, Salt Lake City, UT

#### **Hilton Gottschalk, MD, FAAOS, FAOA**

President/CEO, Medical Director &  
Assistant Professor of Surgery and  
Perioperative Care  
Central Texas Pediatric Orthopedics,  
Strictly Pediatrics Surgery Center, & Dell  
Medical School, Austin, TX

### TRAUMA

#### **Philip McClure, MD**

Director, International Center for Limb  
Lengthening  
Sinai Hospital of Baltimore, Baltimore, MD

#### **Benjamin Sheffer, MD**

Associate Professor of Orthopaedic  
Surgery  
University of Tennessee Health Sciences  
Center, Memphis, TN

Get to know  
the brilliant minds  
crafting our program



# WELCOME

Dear Colleagues,

On behalf of POSNA President Todd Milbrandt, MD, and the 2025 Program Committee (Christine Ho, MD; Tony Riccio, MD; John Vorhies, MD, and myself) it is our pleasure to invite you to attend the 2025 Annual Meeting of the Pediatric Orthopaedic Society of North America in Las Vegas, Nevada, on May 14-16, 2025.

This meeting will aim to be comfortable (tennis shoes encouraged), while we meet to share and learn the most up-to-date advances in the science of pediatric orthopaedics. Over 100 volunteer member readers graded 1200+ submissions from which the Program Committee ultimately selected 105 abstract presentations, 100 ePosters, and 17 case reports to form the meeting agenda.\* Both ePosters and six virtual symposia will be available on POSNAcademy and the mobile app for your viewing convenience.

The 2025 POSNA Annual Meeting is the premier event for pediatric orthopaedic research and education presented in a uniquely collegial and social atmosphere. We hope you will plan to join us for what will be a fantastic event. We look forward to seeing you in Las Vegas!

Sincerely,



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



\* For more program information, check out the Program at a Glance starting on page 20.

## What's New?

### ► CASE REPORTS

### ► BREAKOUTS



Innovative Management



Patient Equity



Firearm-Related Injury



Leadership Development





# GENERAL MEETING INFORMATION

## LEARNING OBJECTIVES

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

## 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.



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INTERPROFESSIONAL CONTINUING EDUCATION

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Amedco Joint Accreditation Provider Number: 4008163.

## AMA CREDIT DESIGNATION

Amedco LLC designates this live and enduring material for **14 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 or she 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 or she 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).

*"Fantastic meeting, already looking forward to next year"*

Dominick Tuason, MD



# REGISTRATION INFORMATION

Full meeting registration from Wednesday, May 14, 2025, through Friday, May 16, 2025, includes all sessions, coffee breaks, breakfast each day, and farewell reception. Full meeting attendance at the 2025 Annual Meeting fulfills your POSNA membership meeting attendance requirement.

## EARLY REGISTRATION FEES (US DOLLARS)

POSNA Member	\$ 850
Non-Member	\$ 1,750
Resident/Fellow*	\$ 650
RN/PA/Allied Health	\$ 650
Active Military	\$ 650
Medical Student	\$ 650
Delegates from Reduced Rate Countries: Low Income	\$ 500
Accompanying Person	\$ 350
Emeritus Member	\$ 700
Children 6-12, per child	\$10
Children 13-17, per child	\$100

## REGISTRATION DEADLINES

Early Registration deadline April 8, 2025

\*An additional \$50.00 will apply to the above costs starting April 9, 2025

Pre-Registration closes on May 13, 2025. There will be an additional fee of \$50 added on-site.

To pay by check, email Erica Respeto, [respeto@posna.org](mailto:respeto@posna.org), to request an invoice to include with your check payable to POSNA, 1 Tower Lane, Suite 2410, Oak Brook Terrace, IL 60181.

Note: The accompanying person fee includes breakfast Wednesday-Friday and the farewell reception on Friday evening. Accompanying persons must be registered in order to attend.

## CANCELATION POLICY

Full refunds will be provided less a processing fee if received in writing to Erica Respeto, [respeto@posna.org](mailto:respeto@posna.org), by the date listed below. No refunds will be granted after May 7, 2025. Registrants will receive confirmation and a refund within 14 days of receipt of their cancellation notice.

February 19 - April 15, 2025—less a 20% processing fee

April 16 - May 7, 2025—less a 50% processing fee

May 7, 2025—No refunds

## LETTER OF INVITATION

Individuals requiring an official Letter of Invitation can request one from the POSNA office at [posna@posna.org](mailto: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

2025 POSNA Annual Meeting registration lists, 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

When registering for the 2025 POSNA Annual Meeting, your personal identifying information is retained by POSNA. You understand and agree that POSNA may disclose your name, address, and contact information to the hotel and other service providers.

To obtain the discounted rate for the following registration categories, contact Erica Respeto, [respeto@posna.org](mailto:respeto@posna.org), with the information required.

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

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

<sup>3</sup>For POSNA members in active military duty only: Contact Erica Respeto, [respeto@posna.org](mailto:respeto@posna.org).

<sup>4</sup>Medical Students: Provide your most recent transcript showing good standing from your institution.



# Housing

The 2025 POSNA Annual Meeting will be held at **Caesar's Palace**, right in the vibrant heart of the Las Vegas Strip. For more details and to book your accommodations [Click Here](#)



Las Vegas is bursting with excitement and adventure, both on the Strip and beyond! Whether you're in the mood to unwind, chase thrills, or explore family-friendly activities, there's something for everyone to enjoy. Come discover the endless fun that awaits you in this vibrant city!

[Unlock  
Las Vegas](#)

for attractions and things to do





# LAS VEGAS TRANSPORTATION



## AIRPORT

### Harry Reid International Airport

[Harry Reid International Airport](#) is conveniently located just 2 miles from Las Vegas Boulevard and 4 miles from Caesars Palace. The airport currently has more than 1,050 inbound and outbound flights per day and direct service to nearly 150 U.S. and international cities.

### Ground Transportation To/From Airport

A variety of ground transportation options are available to/from the airport. <https://www.harryreidairport.com/Transportation>

## GETTING AROUND TOWN

### Ride Share

Ridesharing, commonly associated with [Uber](#) and [Lyft](#), is a convenient option for visitors to get around the destination, no matter where you are in Las Vegas. It's as simple as downloading the rideshare app of your choice, inputting information, and waiting for your ride to show up.

### Taxi

Taxis are a reliable form of transportation that have been used throughout Las Vegas for decades. With [several companies](#) to choose from, you never have to worry about there not being enough drivers at a late hour. Unlike other cities, you cannot hail a taxi on the street in Las Vegas. Taxis are required to pick up passengers at a physical address, such as a hotel taxi line. Hotels have specific areas for taxi pickup, usually near the valet or main entrance.

### Las Vegas Monorail

The [Las Vegas Monorail](#) is an excellent choice for both vacationers and visitors attending meetings. It offers a convenient way to explore the Las Vegas Strip in less than 15 minutes, saving valuable time without the hassle of traffic. With speeds of up to 50 mph, riders can enjoy a quick and efficient transportation experience.

For added convenience, the Las Vegas Monorail provides [mobile tickets](#) and [various fare options](#) to cater to different travel needs. Whether you're looking for a one-way trip or an unlimited-ride pass, they have you covered. Simply download your mobile tickets to your phone's mobile wallet, and you're all set to ride.





OPENING EVENT

# Madame Tussauds

Wednesday, May 14  
7:30 PM–10:30 PM

3377 S Las Vegas Blvd Ste. 2001  
Las Vegas, NV 89109



Get up close and personal with over 100 of the world's hottest celebrities, athletes, and legends.

Explore the museum's six-themed rooms—Club Tussauds, Music Room, Marvel Experience, The Hangover, Viva Las Vegas, Speak Easy—and 4D theater. Whether you want to hang with Elvis or Beyoncé, you're sure to find someone to be photographed with!

Ticket includes dinner, drinks, DJ, transportation, and admission to the museum.

Tickets: \$125 through May 13, 2025  
\$140 on May 14, the day of the event

**Must be 21 years or older to attend**

Sponsored, in part, by 



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# PROGRAM AT A GLANCE

TUESDAY, MAY 13		
3:00 PM–6:00 PM	Registration	Milano Foyer
WEDNESDAY, MAY 14		
7:00 AM–5:00 PM	Registration	Milano Foyer
7:00 AM–8:00 AM	Breakfast/Exhibits	Octavius 7
8:00 AM–8:50 AM	Opening Ceremony	Octavius 12
<b>8:50 AM–10:10 AM</b>	<b>Session 1. Viva Las Vegas: Trauma</b>	Octavius 12
10:15 AM–10:35 AM	Afternoon/Exhibits Break	Octavius 7
<b>10:40 AM–11:55 AM</b>	<b>Session 2 (Concurrent)</b> A. Spine in Sin City B. Neuromuscular & Lower Extremity: Feast or Famine	Octavius 12 Milano 1
12:20 PM–1:50 PM	POSNA Business Meeting	Roman
<b>2:00 PM–3:13 PM</b>	<b>Session 3 (Concurrent)</b> A. Hip : Go Rich, Come Home Richer B. Innovative Management : Pearls and Strategies	Octavius 12 Milano 7-8
3:20 PM–3:40 PM	Afternoon/Exhibits Break	Octavius 7
<b>3:45 PM–5:10 PM</b>	<b>Session 4 (Concurrent)</b> A. Sports: We Make Our Own Luck B. Case Reports C. The Best Care for Every Patient: Equity in Pediatric Orthopaedics	Octavius 12 Roman Milano 1
6:00 PM–7:00 PM	Presidential Welcome	Octavius 12
7:30 PM–10:30 PM	Opening Event (Off-site)	Madame Tussauds
THURSDAY, MAY 15		
7:00 AM–11:30 AM	Registration	Milano Foyer
7:00 AM–8:00 AM	Breakfast/Exhibits	Octavius 7
<b>8:00 AM–9:40 AM</b>	<b>Session 5 (Concurrent)</b> A. Variety Act B. Show Me Your Hand (and Foot) C. Pediatric Firearm-Related Injury Fireside Chat	Octavius 12 Roman Milano 1
9:45 AM–10:05 AM	Coffee/Exhibits Break	Octavius 7
<b>10:15 AM–11:20 AM</b>	<b>Lead Like Lori Lecture</b>	Octavius 12

## SPACE IS LIMITED!

Secure your spot by adding sessions to your registration.



# PROGRAM AT A GLANCE

## FRIDAY, MAY 16

8:00 AM–3:00 PM	Registration	Milano Foyer
7:00 AM–8:00 AM	Breakfast/Exhibits	Octavius 7
<b>8:00 AM–10:05 AM</b>	<b>Session 6. Award-Nominated Papers Act 1</b>	Octavius 12
10:10 AM–10:30 AM	Coffee/Exhibits Break	Octavius 7
<b>10:35 AM–12:00 PM</b>	<b>Session 7. Award-Nominated Papers Act 2</b>	Octavius 12
12:00 PM–12:25 PM	Distinguished Achievement Award	Octavius 12
12:26 PM–12:30 PM	2026 Meeting Preview	Octavius 12
12:30 PM–12:35 PM	Award Announcements	Octavius 12
<b>2:00 PM–3:10 PM</b>	<b>Session 8 (Concurrent)</b>	
	A. What Happens in Vegas: Infection & Tumor	Octavius 12
	B. Case Reports	Roman
	C. All Aces: A Masterclass in Pediatric Orthopaedics	Milano 1
3:15 PM–3:35 PM	Afternoon/Exhibits Break	Octavius 7
<b>3:40 PM–4:50 PM</b>	<b>Session 9. Closing Act: Trauma &amp; Equity</b>	Octavius 12
4:50 PM–5:00 PM	Presidential Transfer	Octavius 12
5:00 PM–7:00 PM	Farewell	Octavius Foyer

## MOBILE APP

ePosters

Virtual Symposia

\*Program subject to change



*“Excellent Meeting.  
The best for pediatric  
orthopaedics.”*

Giovanni Trisolino, MD

OPENING CEREMONY

8:00 AM–8:09 AM  
**Presidential Welcome**  
*Todd Milbrandt, MD*

8:10 AM–8:30 AM  
**Introduction of Distinguished Guests**

8:31 AM–8:50 AM  
**Presentation of Awards**

SESSION 1  
 VIVA LAS VEGAS: TRAUMA

Room: Octavius 12

**Moderators: Julia Sanders, MD & David Spence, MD**

**8:50 AM–10:10 AM**

8:51 AM–8:55 AM  
**Introduction to the 2025 POSNA Annual Meeting**  
*Julie Balch Samora, MD, PhD, MPH, FAAOS, FAOA*

**#1**  
 8:56 AM–9:00 AM  
**Headless Compression Screws for Pediatric Tibial Tubercle Fractures: A Multicenter Case-Control Series**  
*Bryan Menapace, MD, MBA; Brett Shannon, MD; Kenneth Rogers, PhD, ATC; Mihir Thacker, MD*  
 Nemours Children's Hospital  
 Wilmington, DE, United States

**#2**  
 9:01 AM–9:05 AM  
**Thinking Twice About Flexible Intramedullary Nailing of Pediatric Fractures: Complications following Downstream Hardware Removal**  
*Vineet Desai; Scott Mahon, BS; Amanda Pang; Casey Kuka; Margaret Bowen; Sulagna Sarkar; Apurva Shah, MD, MBA; Jason Anari, MD*  
 The Children's Hospital of Philadelphia  
 Philadelphia, PA, United States

**#3**  
 9:06 AM–9:10 AM  
**Supra-patellar Approach for Tibial Shaft Fractures Treated with Intramedullary Rigid Nail in Patients with Open Physis**  
*Carlos Pargas Colina, MD; Tori Coble; Sara Davis; David Spence, MD; Jonathan Rowland, BS, CCRP; Derek Kelly, MD, FAAOS, FAOA; Benjamin Sheffer, MD*  
 Campbell Clinic  
 Germantown, TN, United States

9:11 AM–9:19 AM Discussion

**#4**  
 9:20 AM–9:24 AM  
**Hip Abduction Brace is an Effective Treatment Alternative to Pavlik Harness or Spica Cast for Femur Fractures in Infants 12 Months and Younger**  
*Ava Baumann; Margaret Siobhan Murphy-Zane, MD*  
 Children's Hospital Colorado  
 Aurora, CO, United States

**#5**  
 9:25 AM–9:29 PM  
**The Ultimate Fate of the Contralateral Hip in Unilateral Slipped Capital Femoral Epiphysis: Index Prophylactic Treatment May Lead to Decreased Complications and Cost**  
*Jack Haglin, MD; Eugenia Lin; David Bennett, MD; William Wood, MD; Judson Karlen, MD; Jessica Burns, MD, MPH*  
 Phoenix Childrens Hospital  
 Phoenix, AZ, United States

**#6**  
 9:30 AM–9:34 AM  
**Emergency Medicine Based Management of Minimally Displaced Pediatric Clavicle Fractures**  
*Grace Hogan; Esther Elice Thompson; Arezoo Zomorodi; Shobhana Sathish; Richard Kruse, DO, MBA; Kristen Delin; Brett Kestecher; Jennifer Ty, MD*  
 Nemours Children's Health, Delaware  
 Wilmington, DE, United States

9:35 AM–9:43 AM Discussion

**#7**  
 9:44 AM–9:48 AM  
**Effect of Vitamin D in Pediatric Fracture Occurrence: A Prospective Cohort Study**  
*David Liu, MD; Taylor Adams, BS; Ariana Vitali; Hiroko Matsumoto, PhD; Patricia Miller, MS; Melissa Putman; Susan Mahan, MD, MPH; Brian Snyder, MD*  
 Boston Children's Hospital  
 Boston, MA, United States

**#8**  
 9:49 AM–9:53 AM  
**Paradoxical Protection: Lower Rates of AVN in Valgus Impaction Compared to Varus Avulsion Lateral Condyle Fractures**  
*Leigh Campbell; Courtney Baker, MD; Andrew Rees; Samuel Johnson; Jacob Schultz; Lucas Wollenman; Craig Louer, MD; Nathaniel Lempert, MD; Stephanie Moore-Lotridge, PhD; Jonathan Schoenecker, MD, PhD*  
 Vanderbilt University Medical Center  
 Nashville, TN, United States

**#9**  
 9:54 AM–9:58 AM  
**Early Fixation of Pediatric Femoral Shaft Fractures is Associated with Fewer Complications**  
*Syed Ali; Alex Youn; Ishaan Swarup, MD*  
 UCSF Benioff Children's Hospital  
 Oakland, CA, United States

9:59 AM–10:07 AM Discussion

10:08 AM–10:10 AM Next Up





**SESSION 2A  
SPINE IN SIN CITY**

Room: Octavius 12

**Moderators: Lorena Floccari, MD & Amy McIntosh, MD**

**10:40 AM–11:55 AM**

10:40 AM–10:42 AM Introduction

**#10**

10:43 AM–10:47 AM

**Pneumonia Induced Mortality and Risk of Pneumonia in Children with Cerebral Palsy with Scoliosis Treated with and without Surgery**

*Matti Ahonen; Ira Jeglinsky-Kankainen; Mika Gissler; Ilkka Helenius, MD Helsinki University Hospital Helsinki, Finland*

**#11**

10:48 AM–10:52 AM

**Designated Spine Anesthesia Teams Improve Perioperative Outcomes for Complex Scoliosis**

*Kali Tileston, MD; Neelufar Raja; Arianne Salunga; Talissa Generoso; Hiba Naz; Nicole Pham; Amishi Jobanputra; John Vorhies, MD Stanford Palo Alto, CA, United States*

**#12**

10:53 AM–10:57 AM

**Outcomes of Spinal Fusion Surgery in Cerebral Palsy: Analysis of Complications, Reoperations, and Clinical and Radiographic Outcomes with Minimum 5-year Follow Up**

*Arun Hariharan, MD, MS; Craig Louer, MD; John Vorhies, MD; Robert Cho, MD; Paul Sponseller, MD, MBA; Stefan Parent, MD, PhD; Patrick Cahill, MD; Amer Samdani, MD; Firoz Miyanji, MD, FRCSC; Suken Shah, MD; Tracey Bryan, MA; Baron Lonner, MD; Harms Study Group Paley Orthopedic and Spine Institute West Palm Beach, FL, United States*

10:58 AM–11:06 AM Discussion

**#13**

11:07 AM–11:11 AM

**AIS ERAS Pathway Implementation via Pain Service Consultation Increases Charges without Decreasing Opioid Utilization or Length of Stay**

*Austin Montgomery; Chinonso Ani; Tracy War Hoover, NP; Andrew Franklin; Craig Louer, MD; Gregory Mencio, MD; Jeff Martus, MD Vanderbilt Children's Hospital Nashville, TN, United States*

**#14**

11:12 AM–11:16 AM

**False Negative Intraoperative Neuromonitoring Alerts during Pediatric Spinal Deformity Surgery: The Dreaded Outcome**

*Christopher Bozorgmehr; Hilton Braithwaite; Scott Luhmann, MD Washington University School of Medicine St. Louis, MO, United States*

**#15**

11:17 AM–11:21 AM

**Efficacy of Topical TXA in Reducing Blood Loss and Transfusion Rates in Spine Surgery: A Double-Blinded Randomized Controlled Trial**

*Brett Kilb; Shaina Sim; Ivie Huang; Arvinder Ghag, MD, FRCSC; Robert Cho, MD; Firoz Miyanji, MD, FRCSC British Columbia Children's Hospital Vancouver, BC, Canada*

11:22 AM–11:30 AM Discussion

**#16**

11:31 AM–11:35 AM

**Night-Time vs. Full-Time Bracing in Thoracic AIS – Are There Differences in Curve Progression When Matching For Time-in-Brace?**

*Martin Heegaard; Lærke Ragborg; Amy McIntosh, MD; Megan Johnson, MD; Anne-Marie Datcu; Regina Velarde; Martin Gehrchen; Daniel Sucato, MD, MS; Benny Dahl, MD; Soren Ohrt-Nissen Rigshospitalet and University of Copenhagen Copenhagen, Denmark*

**#17**

11:36 AM–11:40 AM

**A Changing EOS Phenotype in SMA: Nusinersen Use is Associated with Increased Curve Magnitude and Kyphosis at the Time of Index Surgery**

*John Vorhies, MD; Nicole Pham; Xochitl Bryson; Amy McIntosh, MD; Brandon Ramo, MD; John Smith; Ian Hollyer; Jaysson Brooks, MD; Patrick Cahill, MD; Benjamin Roye, MD; Majella Vaughan; Brian Snyder, MD; Daniel Bouton, MD; Michael Vitale, MD, MPH; Ron El-Hawary, MD, MSc; Pediatric Spine Study Group Stanford Palo Alto, CA, United States*

**#18**

11:41 AM–11:45 AM

**Halo-Gravity Traction Prior to Growing Rod Insertion: Which Curves Can Benefit?**

*Ambika Paulson; Hui Nian; Jeff Martus, MD; John Smith; Paul Sponseller, MD, MBA; John Emans, MD; Michelle Welborn, MD; Pediatric Spine Study Group; Craig Louer, MD Vanderbilt University Medical Center Nashville, TN, United States*

11:46 AM–11:54 AM Discussion

**SESSION 2B. NEUROMUSCULAR AND LOWER EXTREMITY: FEAST OR FAMINE**

Room: Milano 1

**Moderators: Raymond Liu, MD & Claire Shannon, MD, FAAOS**

**10:40 AM–11:55 AM**

10:40 AM–10:42 AM Introduction

**#19**

10:43 AM–10:47 AM

**Guided Growth Treatment for Hip Displacement in Young Children ≤ 6 years with Cerebral Palsy: A Preliminary Report Analyzing the Effects of Age and Migration Severity on Surgical Success**

*Christina Herrero, MD; Rachel Lenhart, MD, PhD; Arianna Trionfo, MD; M. Wade Shrader, MD; Freeman Miller, MD; Kenneth Rogers, PhD, ATC; Jason Howard, MD Nemours Children's Health Wilmington, DE, United States*

#20

10:48 AM–10:52 AM

**Validation of the Trochanteric-Sparing Proximal Femoral Resection Compared to Legacy Salvage Procedures: A Non-Inferiority Retrospective Cohort Study**

Lennert Plasschaert, MD; Catherine Mackey; Patricia Miller, MS; Colyn Watkins, MD; Brian Snyder, MD; Benjamin Shore, MD, MPH, FRCSC  
Boston Children's Hospital  
Boston, MA, United States

#21

10:53 AM–10:57 AM

**The Effect of Immediate Weightbearing after Planovalgus Foot Reconstruction in Ambulatory Children with Cerebral Palsy**

Arianna Trionfo, MD; Madison Lennon; Jose Salazar-Torres; Christina Herrero, MD; Rachel Lenhart, MD, PhD; Hannah Popper; Abigail Helms, PA-C; Nancy Lennon, MS, PT, DPT; M. Wade Shrader, MD; Jason Howard, MD; Freeman Miller, MD; Chris Church; Nemours Children's Health Hospital Cerebral Palsy  
Nemours Children's Health  
Wilmington, Delaware, United States

10:58 AM–11:06 AM Discussion

#22

11:07 AM–11:11 AM

**Perioperative Management of Children with Cerebral Palsy Undergoing Lower Extremity Surgery: Survey of Surgeon Practices**

Arianna Trionfo, MD; Christina Herrero, MD; M. Wade Shrader, MD; Jason Howard, MD; Alice Taylor  
Nemours Children's Health  
Wilmington, DE, United States

#23

11:12 AM–11:16 AM

**DTI Evaluation of the Physes with Bone Bridges: Preliminary Experience**

Camilo Perdomo; Laura Santos; Bamidele KAMMEN; Sanjeev Sabharwal, MD, MPH; Ingrid Galvis; Brendan Sullivan; Ola Kvist; Sachin Jambawalikar; Diego Jaramillo, MD, MPH; Dave Hitt  
UCSF Benioff Children's Hospital  
Oakland  
Oakland, CA, United States

#24

11:17 AM–11:21 AM

**Health Disparity Risk Factors May Play a Role in Presenting Phenotype in Congenital Femoral versus Fibular Deficiency**

Janet Walker, MD; Grace Markowski; Donna Oeffinger, PhD; Alyssa Barré, MD; Hank White, PhD  
Shriners Children's-Multiple Sites, Primary Site-  
Lexington, KY, United States

11:22 AM–11:30 AM Discussion

#25

11:31 AM–11:35 AM

**Go Big or Stay Home? Impact of Implant Type on Outcomes of Growth Modulation in Blount Disease**

Elizabeth Hubbard, MD; Claire Noyes; Alexander Cherkashin, MD; Mikhail Samchukov, MD; John Birch, MD; David Podeszwa, MD  
Scottish Rite for Children  
Dallas TX, United States

#26

11:36 AM–11:40 AM

**Risk factors for Nonunion after Femoral Rotational Osteotomies for Idiopathic Anteversion and Retroversion in Adolescents**

Connor Roper; Michael Amick; Matthew Siebert; Chris Makarewich, MD  
University of Utah, Department of Orthopaedics  
Salt Lake City, UT, United States

#27

11:41 AM–11:45 AM

**Recurrence of Ankle Deformity Following Reconstruction in Patients with Fibular Hemimelia and Dynamic Valgus**

Hans Nugraha, MD; Aaron Huser, DO; Katherine Miller, MD; Dror Paley, MD  
Paley Institute  
West Palm Beach, FL, United States

11:46 AM–11:54 AM Discussion

SESSION 3A. HIP:  
GO RICH, COME HOME RICHER

Room: Octavius 12

Moderators: Eric Fornari, MD & Eduardo Novais, MD

2:00 PM–3:13 PM

2:00 PM–2:01 PM Introduction

#28

2:02 PM–2:06 PM

**Mean 15 Year Outcomes of Contemporary Total Hip Arthroplasty in Adolescent and Young Adult Patients are Favorable**

Daniel Layon; Frank Parilla; Deniz Ince; Stockton Troyer; Tyler Youngman; Tanner Thornton; Gail Pashos; John Clohisy, MD  
Washington University School of Medicine  
St. Louis, MO, United States

#29

2:07 PM–2:11 PM

**Adolescent Outcomes of Modern Hip Arthroscopy for Femoroacetabular Impingement: A Multicenter Prospective Study**

Jeffrey Nepple, MD; Vivek Shah; Yi-Meng Yen, MD; Matthew Schmitz, MD; Sasha Carsen, MD, FRCSC; Henry Ellis, MD; ANCHOR Study Group; John Clohisy, MD  
Washington University School of Medicine  
St. Louis, MO, United States

#30

2:30 PM–2:16 PM

**The Role of Mental Health in the Presentation and Outcomes of Femoroacetabular Impingement Surgery in Adolescents: A Prospective Multicenter Study**

Jeffrey Nepple, MD; Vivek Shah; Yi-Meng Yen, MD; Matthew Schmitz, MD; Sasha Carsen, MD, FRCSC; Henry Ellis, MD; ANCHOR Study Group; John Clohisy, MD  
Washington University School of Medicine  
St. Louis, MO, United States

2:17 PM–2:25 PM Discussion



**#31**  
 2:26 PM–2:30 PM  
**Subcapital Osteotomy and Realignment Through Anterior Approach in Unstable High-Grade Slipped Capital Femoral Epiphysis: Is It Effective and Safe?**  
*Sandeep Patwardhan, MD*  
*Sancheti Institute for Orthopaedics and Rehabilitation*  
*Pune, India*

**#32**  
 2:31 PM–2:35 PM  
**Peri-articular Injections Improve Mobility and Decreases Length of Stay after Hip Preservation Surgery**  
*Sarah Norman; Susan Novotny, PhD; Elijah Welsh; Todd Warner; Alison Dittmer, MD*  
*Gillette Children's Specialty Healthcare*  
*Saint Paul, MN, United States*

**#33**  
 2:36 PM–2:40 PM  
**Beyond the First Fix: Unraveling the Long-Term Impact of Surgical Fixation in Children 9 and Under with SCFE**  
*David Liu, MD; Lara Cohen; Miles Batty, MD; Mary Morcos; Lennert Plasschaert, MD; Nancy Wan; Grant Hogue, MD; Eduardo Novais, MD*  
*Boston Children's Hospital*  
*Boston, MA, United States*

2:41 PM–2:49 PM Discussion

**#34**  
 2:50 PM–2:54 PM  
**Does Hip Stability Influence Early Rates of Acetabular Remodeling Following Reduction of Idiopathic DDH? A Comparison of Closed vs Open Reduction with and without Ligamentum Teres Reconstruction**  
*Tucker Peabody; Phillip Stokey; Daryn Strub, BA; Kirsten Tulchin-Francis, PhD; Craig Smith, MD; Kevin Klingele, MD*  
*Nationwide Children's Hospital*  
*Columbus, OH, United States*

**#35**  
 2:55 PM–2:59 PM  
**Coxa Magna Predicts Poor Outcome in Developmental Dysplasia of the Hip Before the Appearance of Proximal Femur Growth Disturbance**  
*Evelyn Kuong, MD; Janus Wong; Wang Chow*  
*Hong Kong Children's Hospital*  
*Kowloon Bay, Hong Kong*

**#36**  
 3:00 PM–3:04 PM  
**Long-Term Hip Survivorship and Patient-Reported Outcomes of Periacetabular Osteotomy: The Washington University Experience**  
*Matthew Booth; Jeffrey Nepple, MD; Susan Thapa, PhD; Gail Pashos; Frank Parilla; Perry Schoenecker, MD; John Clohisy, MD*  
*Washington University School of Medicine*  
*St. Louis, MO, United States*

3:05 PM–3:13 PM Discussion

**3B. INNOVATIVE MANAGEMENT: PEARLS AND STRATEGIES**



**2:00 PM–3:13 PM**  
**Room: Milano 7-8**

*Chairs: Christine Ho, MD & Kevin Neal, MD*

This session is formatted with five concurrent round-table discussions on various management topics, facilitated by your POSNA peers. Every 10 minutes, participants will have the opportunity to rotate to a different table to learn, share, and discuss a new topic.

2:00 PM–2:05 PM	Introduction
2:06 PM–2:16 PM	Rotation 1
2:17 PM–2:27 PM	Rotation 2
2:28 PM–2:38 PM	Rotation 3
2:39 PM–2:49 PM	Rotation 4
2:50 PM–3:00 PM	Rotation 5
3:01 PM–3:13 PM	Closure

**Introduction**  
*Christine Ho, MD*

**Physician, Heal Thyself: Second-Victim Syndrome**  
*John Anthony "Tony" Herring, MD, FRCS & Julie Balch Samora, MD, PhD, MPH, FAAOS, FAOA*

**Strategies to Manage the Urgent Room in YOUR Hospital**  
*Daniel Grant, MD & Hilda Kriel, MD*

**Billing and Coding: Participant-Submitted Questions and Bundling versus Unbundling**  
*R. Dale Blasier, MD & Kevin Neal, MD*

**Be More Efficient! Maximizing Your Physician Extenders (APPs and Scribes)**  
*Benjamin Martin, MD & Michael Schmitz, MD*

**More Than Just Taking Care of Patients: How to Get into Research, Education, Leadership, Quality Projects If You're Not in a Large Academic Center**  
*Allison Crepeau, MD & Kevin Shea, MD*

**Closure**  
*Christine Ho, MD*



**BREAKOUT SESSION**

**SESSION 4A. SPORTS:  
WE MAKE OUR OWN LUCK**
**Room: Octavius 12**
**Moderators: Allison Crepeau, MD &  
John Polousky, MD**
**3:45 PM–5:10 PM**

3:45 PM–3:46 PM Introduction

**#37**

3:47 PM–3:51 PM

**Long-term Outcomes of Treatment of  
Femoroacetabular Impingement in  
Adolescents**

 Yi-Meng Yen, MD; Jeffrey Nepple, MD;  
Vivek Shah; Young Kim, MD; Michael  
Millis, MD; Matthew Schmitz, MD; Henry  
Ellis, MD; ANCHOR Study Group; John  
Clohisey, MD  
Washington University School of  
Medicine  
St. Louis, MO, United States

**#38**

3:52 PM–3:56 PM

**Comparison of Retear Rates and All-  
Cause Reoperation Rates in Pediatric  
and Adolescent ACL Reconstructions  
using Bone Patellar Tendon and  
Quadriceps Tendon Grafts**

 Kyla Petrie; Pardeep Dhillon;  
Nirav Pandya, MD  
UCSF  
San Francisco, CA, United States

**#39**

3:57 PM–4:01 PM

**Post-Operative Patterns in  
Prospectively Collected Anxiety and  
Depressive Symptoms Scores in  
Young Athletes Undergoing Anterior  
Cruciate Ligament Reconstruction**

 Mary Daley; Kathleen Maguire, MD;  
Morgan Swanson; Sulagna Sarkar; Kevin  
Landrum; Sean Owens; Joseph Yellin,  
MD; Theodore Ganley, MD  
The Children's Hospital of Philadelphia  
Philadelphia, PA, United States

4:02 PM–4:10 PM Discussion

**#40**

4:11 PM–4:15 PM

**Pediatric Failed Meniscus Repair in  
>5000 Arthroscopic Meniscus Repairs**

 Keinan Agonias; Bobby Van Pelt, MPH;  
Richard Bowen, MD; Charles Chan, MD;  
Matthew Milewski, MD; Eric Edmonds,  
MD; Benton Heyworth, MD; Donna  
Pacicca, MD; Philip Wilson, MD; Kevin  
Shea, MD; Henry Ellis, MD; SCORE  
Study Group  
Scottish Rite for Children  
Dallas, TX, United States

**#41**

4:16 PM–4:20 PM

**Radiologic Risk Factors for  
Osteochondral Fractures in First-Time  
and Recurrent Patellar Instability  
Patients**

 James McGinley; Henry Ellis, MD;  
Bennett Propp; Matthew Veerkamp;  
Philip Wilson, MD; Dennis Kramer, MD;  
Shital Parikh, MD, FACS; Beth Shubin  
Stein; JUPITER Study Group  
Scottish Rite for Children  
Dallas, TX, United States

**#42**

4:21 PM–4:25 PM

**Short to Mid Term Outcomes for  
Trochleoplasty, Medial Patellofemoral  
Ligament Reconstruction and Lateral  
Retinacular Lengthening to Treat  
Recurrent Patellar Instability Due to  
High Grade Trochlear Dysplasia**

 James Pace, MD; Adam Weaver;  
Nicholas Anable, MS; Saygin Kamaci;  
Allison Crepeau, MD; Lucy Phan;  
John Abt  
Children's Health Andrews Institute  
Plano, TX, United States

4:26 PM–4:34 PM Discussion

**#43**

4:35 PM–4:39 PM

**Grade III Complications of Tibial Spine  
Fracture in Pediatric Patients**

 Keinan Agonias; Bobby Van Pelt, MPH;  
Jason Rhodes, MD; Jennifer Beck, MD;  
Jay Albright, MD; Shital Parikh, MD,  
FACS; Kevin Shea, MD; Henry Ellis, MD;  
Philip Wilson, MD; Gregory Schmale,  
MD; SCORE Study Group  
Scottish Rite for Children  
Dallas, TX, United States

**#44**

4:40 PM–4:44 PM

**A Multicenter Comparison of Screw,  
Suture, and Hybrid Fixation of  
Pediatric Tibial Spine Fractures**

 Akbar Syed; Morgan Swanson; Indranil  
'Neel' Kushare, MD; Neeraj Patel, MD,  
MPH; Theodore Ganley, MD; Tibial  
Spine Research Interest Study Group  
The Children's Hospital of Philadelphia  
Philadelphia, PA, United States

**#45**

4:45 PM–4:49 PM

**The Risk of Venous Thromboembolism  
in Adolescent Patients Undergoing  
Knee Arthroscopy: A Call for  
Prophylaxis Consideration**

 Mehul Mittal; Krishna Chandra; Katalina  
Acevedo; Matthew Hooper; Rohit  
Siddabattula; Pooya Hosseinzadeh, MD  
St. Louis Children's Hospital,  
Department of Orthopaedics  
St. Louis, MO, United States

4:50 PM–5:58 PM Discussion

**SESSION 4B. A POTPOURRI  
OF CASES**
**Room: Roman**
**Moderators: James Beaty, MD &  
Alvin Crawford, MD**
**3:45 PM–5:10 PM**

3:45 PM–3:48 PM

Introduction

John Vorhies, MD

**Case 1**

3:49 PM–3:51 PM

**Missed Sternoclavicular Dislocation  
Resulting in Brachicephalic Aneurysm**

 Errol Mortimer, MD; Palak Walia;  
Ryan Fredette  
UMass Memorial Medical Center  
Worcester, MA, United States

3:52 PM–3:57 AM Discussion

**Case 2**

3:58 PM–4:00 PM

**Entrapped Flexor Tendon after Closed  
Treatment of Both Bone Forearm  
Fracture**

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

♦ Research supported by POSNA grant



4:01 PM–4:06 PM Discussion

**Case 3**

4:07 PM–4:09 PM

**Non-Operative Treatment of Distal Humerus Transphyseal Separation in a Premature Neonate**

*Aranz Khalilollahi; Samuel Zverev; Emmanuel Budis; Chelsea Sicat; Allison Ariniello; Meredith Lazar-Antman, MD NYU Grossman Long Island School of Medicine Mineola, NY, United States*

4:10 PM–4:15 PM Discussion

**Case 4**

4:16 PM–4:18 PM

**Post-traumatic Triradiate Cartilage Physeal Bar Excision with the Assistance of Intraoperative 3-D navigation: Technical Tips, Tricks, and Results of an Updated Low-Dose Radiation Protocol**

*Emil Varas; Todd Milbrandt, MD; Emmanouil (Manos) Grigoriou, MD Mayo Clinic Rochester, MN, United States*

4:19 PM–4:24 PM Discussion

**Case 5**

4:25 PM–4:27 PM

**Late Presenting Common Peroneal Nerve Palsy after In-Situ Screw Fixation for Slipped Capital Femoral Epiphysis (SCFE)**

*Vivek Dutt, MBBS; Currey Zalman; Smitha Mathew Children's Nebraska Omaha, NE, United States*

4:28 PM–4:33 PM Discussion

**Case 6**

4:34 PM–4:36 PM

**Radial Head Excision for Radial Neck Non Union in Children Can Restore The Full Range of Motion Without Affecting Alignment or Stability: A Case Report With 3 Years Follow Up**

*Amr Abdelgawad, MD, MBA; Ahmed Hagag, MD, PhD; Ehab Saleh, MD Maimonides Medical Center Brooklyn, NY, United States*

4:37 PM–4:42 PM Discussion

**Case 7**

4:43 PM–4:45 PM

**Fibulalecranon**

*Nicole Montgomery, MD; Samuel Ramirez; Stuart Ferrell; Paige Wheaton;*

*Bryce Bell Texas Children's Hospital Houston, TX, United States*

4:46 PM–4:51 PM Discussion

**Case 8**

4:52 PM–4:54 PM

**Multifocal Bony Lesions in Children: Pitfalls of Peripheral Biopsy to Detect Metastatic Neuroblastoma Presented with Extremity Pain**

*Lik Hang Hung, FRCS; Adam Yiu-Chung Lau; Kenneth Yang; Wayne Lee; Tsz-Ping Lam, MBBS, FRCSE; Jack Cheng, MD Prince of Wales Hospital Hong Kong, Hong Kong*

4:55 PM–4:59 PM Discussion

**Case 9**

5:00 PM–5:02 PM

**Avast Ye Mateys, Infection's a Ruse: It's Scurvy That's Giving Us the Clues!**

*Arianne Salunga; Kali Tileston, MD; Talissa Generoso; Vivian Ho, CPNP; John Vorhies, MD Stanford University Palo Alto, CA, United States*

5:03 PM–5:09 PM Discussion

**4C. THE BEST CARE FOR EVERY PATIENT: EQUITY IN PEDIATRIC ORTHOPAEDICS**

**Time: 3:45 PM–5:10 PM**

**Room: Milano 1**

*Chair: Corinna Franklin, MD*

In this small group focused session, experts at each concurrently-run table will moderate discussions based on case examples. Participants will be encouraged to rotate throughout the tables. The final wrap-up will include pearls and insights from both the experts and as a result of the discussions.

3:45 PM–3:50 PM	Introduction
3:51 PM–4:02 PM	Rotation 1
4:03 PM–4:15 PM	Rotation 2
4:16 PM–4:27 PM	Rotation 3
4:28 PM–4:39 PM	Rotation 4
4:40 PM–4:51 PM	Rotation 5
4:52 PM–5:10 PM	Wrap-Up & Panel

**Introduction**

*Corinna Franklin, MD*

**Sex & Gender**

*Folorunsho Edobor-Osula, MD, MPH; Laura Gill-Sealy, MD, MBBS; Kali Tileston, MD*

**Race, Ethnicity, Nationality**

*Aaron Brandt, MD; Smitha Mathew; Janay McKie, MD; Monica Payares-Lizano, MD*

**Underinsured Patients**

*Jaysson Brooks, MD; Lindsay Crawford, MD; Sumit Gupta, MD, MPH*

**Patients with Disabilities**

*Dorothy Harris Beauvais, MD & George Gantsoudes, MD*

**LGBTQ**

*Lee Haruno, MD; Qusai Hammouri, MD, MBBS; Coleen Sabatini, MD, MPH*

**Wrap-Up & Panel**

*All Moderators*



BREAKOUT SESSION

## SESSION 5A. A VARIETY ACT

Room: Octavius 12

Moderators: *Emily Dodwell, MD, MPH & Jeffrey Sawyer, MD*

8:00 AM–9:40 AM

8:00 AM–8:04 AM Welcome

## #46

8:05 AM–8:09 AM

**The Role for Suicide Risk Assessment Screening in the Pediatric Orthopedic Clinic***Hilton Gottschalk, MD; Cortney Matthews; Jordan Tanyi; Trayce Gray; Niamh McMahon  
Central Texas Pediatric Orthopedics  
Austin, TX, United States*

## #47

8:10 AM–8:14 AM

**Quantifying the Inflammatory Response in Pediatric Orthopedic Surgery: Comparable to Sepsis***Naadir Jamal; Anoop Chandrashekar; Logan Locascio; Brian Hou; Courtney Baker, MD; Stephanie Moore-Lotridge, PhD; Jonathan Schoenecker, MD, PhD  
Vanderbilt University Medical Center  
Nashville, TN, United States*

## #48

8:15 AM–8:19 AM

**Orthopaedists Beware: Severe Nutritional Rickets and Autism Spectrum Disorder***Alexandra Falkenberg; Leila Mehraban Alvandi, PhD; Edina Gjonbalaj; Alexa Karkenny, MD; Melinda Sharkey, MD  
Montefiore Einstein, Department of Orthopaedic Surgery Division of Pediatric Orthopaedic Surgery  
The Bronx, NY, United States*

8:20 AM–8:28 AM Discussion

## #49

8:29 AM–8:33 AM

**Development of a Cloud-Based Remote Monitoring System for Halo Gravity Traction***Jaysson Brooks, MD; Lydia Klinkerman, BS; Karl Rathjen, MD; Daniel Sucato, MD, MS; Brandon Ramo, MD; Amy McIntosh, MD; Karina Zapata, PT, DPT, PhD; Megan Johnson, MD; Brad Niese  
Scottish Rite for Children  
Dallas, TX, United States*

## #50

8:34 AM–8:38 AM

**Hydrogen Peroxide Fogging Reduces Spinal Surgical Site Infections: A Quality Improvement Project***Kenzie Lundqvist; Matt Holloway; Richard Steiner; Todd Ritzman, MD; Michael Bigham; Lorena Floccari, MD  
Akron Children's Hospital  
Akron, OH, United States*

## #51

8:39 AM–8:43 AM

**Comprehensive Skeletal Maturity Index Can Obviate the Need for Hand Radiographs for Sanders Scoring***Alison Dyszel; Elyette Lugo; Paul Sponseller, MD, MBA; Amit Jain, MD  
Johns Hopkins Hospital  
Baltimore, MD, United States*

8:44 AM–8:52 AM Discussion

## #52

8:53 AM–8:57 AM

**Do Prophylactic Antibiotics Lower Surgical Site Infection Risk in Supracondylar Humerus Fractures Treated with Closed Reduction and Percutaneous Pinning? An American College of Surgeons Pediatric National Surgical Quality Improvement Program Analysis***Kevin Rezzadeh; Jennifer Ty, MD  
Nemours Children's Health, Delaware  
Wilmington, DE, United States*

## #53

8:58 AM–9:02 AM

**Further Displacement After Initial Nonoperative Treatment of Minimally Displaced Olecranon Fractures in Children***Rohit Siddabattula; Feross Habib; Claire Schaibley; Diego Najera Saltos; Lindley Wall, MD; Charles Goldfarb, MD; Pooya Hosseinzadeh, MD; Matthew Hooper  
St. Louis Children's Hospital, Department of Orthopaedics  
St. Louis, MO, United States*

## #54

9:03 AM–9:07 AM

**Minimally Invasive Dome Osteotomy vs. Conventional Methods for Correcting Elbow Deformities After Pediatric Supracondylar Fractures: A Comparative Study***Sungmin Kim; Sung Taek Jung  
Chonnam National University Hospital  
Gwangju, Republic of Korea*

9:08 AM–9:16 AM Discussion

## #55

9:17 AM–9:21 AM

**An Oblique Transposition Quadricepsplasty Provides Excellent Outcomes for the Treatment of Congenital, Flexion-Range Patellar Dislocation***Philip Wilson, MD; Clarissa Meza; Charles Wyatt, NP; Claire Clark; Benjamin Johnson; Antonia Dinulescu; Henry Ellis, MD  
Scottish Rite for Children  
Dallas, TX, United States*

## #56

9:22 AM–9:26 AM

**Integration of Electronic Patient Reported Outcomes in a Pediatric Orthopedic Clinic: Pathway to Success***Kelea Damp; Tyler Sullivan; Sumeet Garg, MD  
Children's Hospital Colorado  
Aurora, CO, United States*

## #57

9:27 AM–9:31 AM

**Utilization of Artificial Intelligence-Assisted Cine-Sweep for Screening of Developmental Dysplasia of the Hip at an Urban Centre – A Pilot Study***Shalin Shah; Alaric Aroojis, M.S. (Ortho), D'Ortho, DNB (Ortho); Jacob Jaremko; Abhilash Rakkunedeth Hareendranathan; Sukhdeep Dulai, MD, MHSc, FRCSC; Bhushan Sagade, Junior Consultant; Saroj Chavan; Hirva Manek Bai Jerbai Wadia Hospital for Children  
Mumbai, MH, India*

9:32 AM–9:40 AM Discussion

◆ Research supported by POSNA grant



SESSION 5B. SHOW ME YOUR  
HAND (AND FOOT)

Room: Roman

**Moderators: Sonia Chaudhry, MD,  
FAAOS, FACS & David Scher, MD****8:00 AM–9:40 AM**

8:00 AM–8:04 AM Welcome

**#58**

8:05 AM–8:09 AM

**Do Prophylactic Antibiotics  
Decrease Risk of Infection in Closed  
Percutaneous Pinning of Pediatric  
Hand Fractures?***Christine Ho, MD; Sonia Chaudhry, MD,  
BS, FAAOS, FACS; Hilton Gottschalk,  
MD; Andrea Bauer, MD; Krister Freese,  
MD; Chinelo Onubogu; Anthony  
Minopoli; Taylor Zak; Bhavana Gunda;  
Niamh McMahon; Rishob Dasgupta;  
Henok Haile; Julie Balch Samora, MD,  
PhD, MPH, FAAOS, FAOA, MPH, FAAOS,  
FAOA; POSNA Upper Extremity QSVI  
Committee**Children's Medical Center Dallas  
Dallas, TX, United States***#59**

8:10 AM–8:14 AM

**The Web of Time: Comparing Web  
Creep Reoperation Over 18 years of  
Simple Syndactyly Releases Using  
Full-Thickness Skin Grafts versus  
Local Flaps***Bradley Brickman, MD; Connor  
Burke; Cristina Rivera; Maureen  
O'Shaughnessy; Chase Kluemper;  
Scott Riley, MD**Shriner's Children Hospital  
Lexington, KY, United States***#60**

8:15 AM–8:19 AM

**Neurogenesis Imperfecta: Fetal  
Susceptibility to Brachial Plexus Birth  
Injury Is Associated with Prenatally  
Identifiable Genetic Variation in Axon  
Structure and Development***Roger Cornwall, MD; Simon Sharples;  
Steven Crone; Kritton Shay-Winkler;  
Qingnian Goh**Cincinnati Childrens Hospital  
Cincinnati, OH, United States*

8:20 AM–8:28 AM Discussion

**#61**

8:29 AM–8:33 AM

**Minimally Invasive Subscapularis  
Release and Conjoined Tendon  
Transfer for Shoulder Imbalance in  
Residual Brachial Plexus Birth Injury  
(BPBI): An Intermediate Term  
Follow Up***Maulin Shah, MD; Shalin Shah; Chinmay  
Sangole; Nischal Naik; Tejas Patel  
Orthokids Clinic  
Ahmedabad, GJ, India***#62**

8:34 AM–8:38 AM

**Beyond Narakas: Clinical versus MRI  
Classification of Patterns of Injury in  
Brachial Plexus Birth Injury (BPBI)***Caroline Hu, MD; Andrea Bauer, MD;  
Michelle James, MD; Mary Claire  
Manske, MD; Peter Shen; Ann Van Heest  
Gillette Children's Hospital  
Minneapolis, MN, United States***#63**

8:39 AM–8:43 AM ◆

**Drivers of Health-Related Quality of  
Life among Children with Brachial  
Plexus Birth Injury: Results of the GUPI  
(Growing Up with a Plexus Injury)  
Study***Andrea Bauer, MD; Patricia Miller, MS;  
Mary Claire Manske, MD; Michelle  
James, MD; Jenny Dorich; Roger  
Cornwall, MD; Kristen Davidge  
Boston Children's Hospital  
Boston, MA, United States*

8:44 AM–8:52 PM Discussion

**#64**

8:53 AM–8:57 AM ◆

**Needle-Free Injection of Local  
Anesthetic was Predictive of a  
Lower Pain Score Compared to  
Topical Anesthetic during Clubfoot  
Tenotomy: A Multicenter, Double-Blind  
Randomized Control Trial***Dee Pacheco; Megan Johnson, MD;  
Claudia Maki; Jacquelyn Pennings;  
Nathaniel Lempert, MD; Craig Louer,  
MD; William Morris, MD; Anthony Riccio,  
MD; Jeff Martus, MD**Vanderbilt Children's Hospital  
Nashville, TN, United States***#65**

8:58 AM–9:02 AM

**Redefining the Complex Idiopathic  
Clubfoot and its Treatment Outcomes***Tara Hymus; Barb Harvey, PT; Desiree  
Vaz; Maryse Bouchard, MD, MSc,  
FRCSC  
The Hospital for Sick Children  
Toronto, ON, Canada***#66**

9:03 AM–9:07 AM

**Peripheral Neuropathy: The Shadowed  
Villain in "Idiopathic" Clubfoot  
Recurrence***Michelle Christie, MD; Rusty Hartman;  
Jacob Zide, MD; Anthony Riccio, MD  
Scottish Rite for Children  
Dallas, TX, United States*

9:08 AM–9:16 AM Discussion

**#67**

9:17 AM–9:21 AM

**The Case for Post Partum Depression  
and Anxiety Screening During Ponseti  
Casting***Melissa Bent, MD; Abigail Padilla; Taylor  
Cosanella; Wesley Gretah, PA-C; Rachel  
Goldstein, MD  
Children's Hospital Los Angeles  
Los Angeles, CA, United States***#68**

9:22 AM–9:26 AM

**Hallux Varus Deformity Following Pre-  
Axial Polydactyly Excision in the Foot***Jonathan Grabau; Tuo Li, MD, PhD;  
Rusty Hartman; Jacob Zide, MD; Anthony  
Riccio, MD**Scottish Rite for Children  
Dallas, TX, United States***#69**

9:27 AM–9:31 AM

**30-Years of Treating Peroneal Spastic  
Flatfoot and We Still Have No Idea  
What We're Doing***Rusty Hartman; Jacob Zide, MD;  
Michelle Christie, MD; Anthony  
Riccio, MD**Scottish Rite for Children  
Dallas, TX, United States*

9:32 AM–9:40 AM Discussion

◆ Research supported by POSNA grant

5C. PEDIATRIC FIREARM-RELATED INJURY FIRESIDE CHAT



8:00 AM–9:40 AM  
Room: Milano 1

Chair: Derek Kelly, MD, FAAOS, FAOA

Facilitators: Patrick Bosch, MD; Corinna Franklin, MD; Martin Herman, MD; Pooya Hosseinzadeh, MD; Todd Ritzman, MD; Benjamin Sheffer, MD; Sean Tabaie, MD; Kali Tileston, MD; Sara van Nortwick, MD; Klane White, MD

This highly interactive, case-based session will utilize a small group discussion format to delve into issues around pediatric firearm-related injury including: pediatric-specific patient care such as physeal injury, wound management and lead poisoning; advocacy organizations and how to engage elected officials; patient and family education including the “Be SMART” program; and security issues such as healthcare facility security teams, metal detectors, and “FBI Active Shooter Training.”

8:00 AM–8:02 AM

**Introduction**

Derek Kelly, MD, FAAOS, FAOA

8:03 AM–8:34 AM

**Pediatric-Specific Patient Care**

Sean Tabaie, MD

- Physeal Injuries
- Lead Poisoning

- Is it Open or Closed: Role for Debridement and Antibiotics
- Wound Management

8:35 AM–8:49 AM

**Advocacy**

Martin Herman, MD

- How to Engage Your Own Elected Officials
- What is POSNA Doing?
- Resources and Organizations

8:50 AM–9:14 AM

**Patient/Family Education**

Kali Tileston, MD

- Be SMART Training
- Trigger Lock and Gun Safe Programs
- How/When to Access Social Services and Law Enforcement

9:15 AM–9:40 AM

**Facility Security**

Benjamin Sheffer, MD

- Private Security
- Metal Detectors
- Active Shooter Training
- Personal Awareness Training



LEAD LIKE LORI LECTURE

10:15 AM–11:20 AM  
Room: Octavius 12

10:15 AM–10:20 AM  
**Lead Like Lori Introduction**  
Lindsay Andras, MD & Todd Milbrandt, MD

10:20 AM–11:20 AM  
**Inspiring Greatness through G.R.I.T.**  
Creating the Passion to Pursue the Impossible  
Robyn Benincasa



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 of us into this society.

In the hopes of filling some of the void that is left by her absence, we have instituted a 3-year leadership lecture series to be held at the Annual Meeting. Funded by donations in her honor, we look forward to hearing from inspiring and inciteful speakers who are trailblazers in their own right in the world outside of pediatric orthopaedics. We hope that you enjoy the unique perspectives that each will bring and the opportunity to continue building on the many leadership lessons she instilled in us.



### INSPIRING GREATNESS THROUGH G.R.I.T.

#### Creating the Passion to Pursue the Impossible

When the challenges are steep and the competition fierce, Robyn Benincasa provides the tools individuals and organizations need to cross their most challenging finish lines.

As a two-time World Champion Adventure racer, San Diego Firefighter, and CNN Hero, Robyn knows a thing or two about creating Human Synergy, or as she puts it, "That magic that allows ordinary people to accomplish extraordinary things together."

Through harrowing experiences in places like the jungles of Borneo and the Himalayan peaks, Robyn has studied the good, the bad, and the not-so-pretty of Extreme Teamwork. Her refreshing and unique techniques build and foster impactful, inspired teams that succeed against all odds and turn setbacks into comebacks.

Robyn was named one of 2020s World's Top 50 Keynote Speakers (Real Leaders Magazine), the #1 Female Speaker for [Meetings.net](https://www.meetings.net), and is one of the Top 10 Speakers featured by Harvard Business Review. She has motivated countless leaders and teams for Fortune 500 companies, including IBM, Starbucks, Walmart, Boeing, Johnson & Johnson, HubSpot, Intel, and more. Her game-changing keynotes inspire us to grab life with one hand, our teammates with the other and create that special magic that makes each of us stronger together than we could ever be alone.

*"That magic  
that allows ordinary  
people to accomplish  
extraordinary things  
together"*

Robyn Benincasa

## SESSION 6. AWARD-NOMINATED PAPERS ACT 1

Room: Octavius 12

**Moderators: Lindsay Andras, MD & Apurva Shah, MD, MBA****8:00 AM–10:05 AM**

8:00 AM–8:04 AM Welcome

**#70**

8:05 AM–8:10 AM

**Effect of Ketorolac Administration on the Rate of Fracture Nonunion in Operatively Treated Pediatric Long Bone Fractures: A Matched Cohort Analysis***Daniel Pereira; Mehul Mittal; Tiffany Lee; Karan Joseph; Sabrina Madrigal; David Momtaz; Beltran Torres-Izquierdo; Rohit Siddabattula; Pooya Hosseinzadeh, MD St. Louis Children's Hospital, Department of Orthopaedics St. Louis, MO, United States***#71**

8:11 AM–8:16 AM

**Casting vs Surgical Treatment of Pediatric Medial Epicondyle Fractures: A Randomized Trial***Petra Grahm, MD, PhD; Ilkka Helenius, MD, PhD, Professor; Tero Hämäläinen; Aarno Nietosvaara, MD, PhD; Reetta Kivisaari; Jaakko Sinikumpu, MD, PhD, Prof; Jenni Katariina Jalkanen; Eliisa Löyttyniemi; Matti Ahonen, MD, PhD HUS New Children's Hospital Helsinki, Finland*

8:17 AM–8:25 AM Discussion

**#72**

8:26 AM–8:30 AM

**Genome-Wide Association Study of African and European Populations With Anterior Cruciate Ligament Injury***Kevin Landrum; Huiqi Qu; Margaret Harr; Joseph Yellin, MD; Syreeta Morgan; Hakon Hakonarson; Theodore Ganley, MD Children's Hospital of Philadelphia Philadelphia, PA, United States***#73**

8:31 AM–8:35 AM ♦

**Biomarker Longitudinal Idiopathic Scoliosis Study: The Impact Of Growth On Curve Progression In Braced Patients With Idiopathic Scoliosis Who Experiences Curve Progression Vs Curve Regression***Michelle Welborn, MD; James Sanders, MD; Amer Samdani, MD; Joseph Stone, MD; Robert Cho, MD; Selina Poon, MD; Vishwas Talwalkar, MD; Michal Szczodry; Susan Sienko Shriners Children's Portland Portland, OR, United States*

8:36 AM–8:43 AM Discussion

**#74**

8:44 AM–8:49 AM

**Open vs Closed Treatment for Unstable Slipped Capital Femoral Epiphysis (SCFE): A Randomized Control Trial Comparing Outcome and Complications***Daniel Sucato, MD, MS; James Ogbeide; Lauren Osborne; Laura Mayfield, MPH; David Podeszwa, MD Scottish Rite for Children Dallas, TX, United States***#75**

8:50 AM–8:55 AM

**Longterm Followup of Periacetabular Osteotomy***Ani Maroyan; Luke Mendola; Travis Matheney, MD; Michael Millis, MD Boston Children's Hospital Boston, MA, United States*

8:56 AM–9:03 AM Discussion

**#76**

9:04 AM–9:08 AM

**Identification of Novel Genes Central to Longitudinal Muscle Growth and Contractures following Neonatal Brachial Plexus Injury***Qingnian Goh; Casey Swoboda; Marianne Emmert; Andrew Emmert; Kritton Shay-Winkler; Roger Cornwall, MD Cincinnati Childrens Hospital Cincinnati, OH, United States***#77**

9:09 AM–9:13 AM

**Validation of a Mouse Model of Cerebral Palsy for CP-Associated Muscular Pathology***Rachel Thompson, MD; Michaela Juels; Gabrielle Noullet; Yiran Deng; Kara Shin; Kevin Chen; Kristen Stearns-Reider UCSD San Diego, CA, United States*

9:14 AM–9:21 AM Discussion

**#78**

9:22 AM–9:27 AM

**Pediatric Osteosarcoma: The Clot Traps the Cancer***Stephen Chenard; Heather Cole; Stephanie Moore-Lotridge, PhD; Jonathan Schoenecker, MD, PhD Vanderbilt University Medical Center Nashville, TN, United States***#79**

9:28 AM–9:33 AM

**Antimicrobial Stewardship for Orthopedic Procedures was Improved by Leveraging NSQIP SAR Data with an Antibiotic Prophylaxis Dashboard***Alysa Nash, MD; Matt Mason; Kathleen Kiesel; Brett Kestecher; Alyssa Patari; Alfred Atanda, MD; Jennifer Vodzak; Suken Shah, MD; Jeanne Franzone, MD Nemours Children's Hospital Wilmington, DE, United States*

9:34 AM–9:42 AM Discussion

**#80**

9:43 AM–9:48 AM

**To Wean or Not to Wean: A Randomized Controlled Trial of Pavlik Harness Weaning in Infantile Developmental Dysplasia of the Hip***Casey Kuka; Carter Hall; Nakul Talathi, MD; Morgan Batley, BA; Wudbhav Sankar, MD Children's Hospital of Philadelphia Philadelphia, PA, United States*



## #81

9:49 AM–9:54 AM

**Clinical Performance of a Joint Infection PCR Panel Compared to Synovial Fluid Culture for the Diagnosis of Septic Arthritis in Children***Jimmy Daher; Rati Deshpande; Benjamin Liu; Matthew Oetgen, MD, MBA  
Childrens National Hospital  
Washington, DC, United States*

9:55 AM–10:03 AM Discussion

**SESSION 7. AWARD-NOMINATED PAPERS ACT 2****Room: Octavius 12****Moderators: Christine Ho, MD & Firoz Miyanji, MD, FRCSC****10:35 AM–12:00 PM**

## #82

10:35 AM–10:40 AM

**Early Brace Treatment: The New Standard for Adolescent Idiopathic Scoliosis?***Karina Zapata, PT, DPT, PhD; Megan Johnson, MD; John-Patrick Rathbun; Don Virostek; Chan-Hee Jo, PhD;  
Daniel Sucato, MD, MS  
Scottish Rite for Children  
Dallas, TX, United States*

## # 83

10:41 AM–10:46 AM ◆

**Femoral Head Perfusion Varies Widely Before and After Surgical Reduction in Infantile DDH: Preliminary Findings from a Prospective Study of Contrast Enhanced Ultrasound***Laith Sultan; Carter Hall; Carlos Yaya; Trudy Morgan; Susan Back;  
Wudbhav Sankar, MD  
Children's Hospital of Philadelphia  
Philadelphia, PA, United States*

10:47 AM–10:55 AM Discussion

## #84

10:56 AM–11:01 AM

**Faster Time to Surgery Reduces Nerve Recovery Time in Pediatric Supracondylar Humerus Fractures***David Isaacs; Akbar Syed; Leta Ashebo; Margaret Bowen; Divya Talwar, PhD, MPH, BDS; Jason Anari, MD; J. Todd Lawrence, MD, PhD  
Children's Hospital of Philadelphia  
Philadelphia, PA, United States*

## #85

11:02 AM–11:07 AM

**The Risk of Overgrowth Following Transtibial Amputation is Dependent on Age at Initial Surgery***Anne Dumaine, MD; Claire Shivers; Kelly Jeans; Jessica Laureano-Phillips; Chan-Hee Jo, PhD; Corey Gill, MD  
Scottish Rite for Children  
Dallas, TX, United States*

11:08 AM–11:16 AM Discussion

## # 86

11:17 AM–11:22 AM ◆

**Outcomes of Skeletally Immature Patients Undergoing Isolated Medial Patellofemoral Ligament Reconstruction: Data from the JUPITER Cohort***Lauren Redler; Elizabeth Dennis; Heath Gould; Bennett Propp; Natalie Pahapill; Audrey Wimberly; Matthew Veerkamp; Joseph Nguyen; Beth Shubin Stein; Shital Parikh, MD, FACS; JUPITER Study Group  
Hospital for Special Surgery  
New York City, NY, United States*

## #87

11:23 AM–11:28 AM

**Complications and Subsequent Surgery Associated with Operative Fixation of Displaced Medial Epicondyle Fractures in Children***Scott McKay, MD; Benton Heyworth, MD; Stuart Ferrell; Samuel Ramirez; Margaret Bowen; Divya Talwar, PhD, MPH, BDS; Peter Fabricant, MD, MPH; Eric Edmonds, MD; Kevin Latz, MD; Donna Pacicca, MD; Daryl Osbahr; Michael Saper; Matthew Ellington, MD; Jay Albright, MD; J. Todd Lawrence, MD, PhD; MEMO Group  
Children's Hospital Of Philadelphia  
Philadelphia, PA, United States*

11:29 AM–11:37 AM Discussion

**2024 JPOSNA® SPOTLIGHT PAPERS**

11:38 AM–11:42 AM

**Subtalar Extra-Articular Screw Arthroereisis: Early North American Experience in a Novel Minimally Invasive Treatment for Pediatric Pes Planovalgus***Nicholas Sullivan, BS; Patricia E. Miller, MS; Susan T. Mahan, MD, MPH  
Boston Children's Hospital & Harvard Medical School  
Boston, MA, United States*

11:43 AM–11:47 AM

**Acceptable Angulation Criteria in Pediatric Midshaft Forearm Fractures: A Systematic Review and Meta-Analysis***K. Aaron Shaw, DO; Adam Jamnik, MD; Luke Shiver, MD; Keegan Kronenberger; Hilary Harris; Robert Burks, PhD; Nicholas D. Fletcher, MD  
Children's Mercy Kansas City,  
Kansas City, MO, United States*

11:48 AM–11:52 AM

**Perfusion Magnetic Resonance Imaging Correlates with Duration of Stages and Lateral Pillar Class in Legg-Calvé-Perthes Disease***Wudbhav N. Sankar, MD; Julianna Lee, BA; David Chong, MD; Yasmin D. Hailer, MD, PhD; Luiz R. Agrizzi de Angeli, MD; Scott Yang, MD; Jennifer Laine, MD; Harry K.W. Kim, MD; International Perthes Study Group  
Children's Hospital of Philadelphia,  
Philadelphia, PA, United States*

11:53 AM–12:01 PM Discussion



## AWARD CEREMONY

12:02 PM–12:06 PM

**Distinguished Achievement Award Introduction***Todd Milbrandt, MD*

12:07 PM–12:25 PM

**Distinguished Achievement Award Winner***Frances Farley, MD*

12:26 PM–12:30 PM

**2026 Meeting Preview***John Lovejoy, III, MD*

12:31 PM–12:34 PM

**2025 Award Announcements***Julie Balch Samora, MD, PhD, MPH, FAAOS, FAOA*

## SESSION 8A. WHAT HAPPENS IN VEGAS: INFECTION AND TUMOR

Room: Octavius 12

**Moderators: Alexandre Arkader, MD & Scott Rosenfeld, MD****2:00 PM–3:10 PM**

2:00 PM–2:02 PM Introduction

**#88**

2:03 PM–2:07 PM

**How Well are Kocher's Criteria for Hip Septic Arthritis aging?***Ignacio Sanpera-Trigueros  
Hospital Universitari Son Espases  
Palma, Spain***#89**

2:08 PM–2:12 PM

**Avascular Necrosis in Pediatric Septic Arthritis: Epidemiological Insights from the CORTICES Multicenter Study***Maria Canizares, MD, MPH; Patricia Miller, MS; Benjamin Shore, MD, MPH, FRCSC; Julia Sanders, MD; CORTICES Study Group  
Boston Children's Hospital  
Boston, MA, United States***#90**

2:13 PM–2:17 PM

**Evaluating Clinical and Lab Features Differentiating Lyme Arthritis, Septic Arthritis, and Toxic Synovitis***Jonathan Yaari; Jakub Ratkowski; Brody Fitzpatrick; Gerald Hobbs; Daniel Grant, MD  
West Virginia University  
Morgantown, WV, United States*

2:18 PM–2:26 PM Discussion

**#91**

2:27 PM–2:31 PM

**Arthrocentesis Vs Arthroscopy Drainage in Pediatric Hip Septic Arthritis***Elena Matilla; Ana Fernández Ansorena; Adriana Castañeda Martínez; Ignacio Sanpera-Trigueros  
Hospital Universitari Son Espases  
Palma, Islas Baleares, Spain***#92**

2:32 PM–2:36 PM

**High Prevalence of Epiphyseal Involvement in Addition to Gastrointestinal Symptoms and Recent Travel in Salmonella Musculoskeletal Infections***Chin Yee Woo; Natalie Tan; Nicole Lee, PhD; Kenneth Pak Leung Wong; Chia Yin Chong; Mohammad Ashik; Arjandas Mahadev, FRCS  
KK Women's and Children's Hospital  
Singapore, Singapore***#93**

2:37 PM–2:41 PM

**Comparison of Surgical Versus a Combined Modality Minimally Invasive Treatment for Aneurysmal Bone Cysts***Youssef Khalafallah; Nicole Montgomery, MD  
Texas Children's Hospital  
Houston, TX, United States*

2:42 PM–2:46 PM Discussion

**#94**

2:47 PM–2:51 PM

**3D Virtual Planning and Patient-Specific Instrumentation to Improve Outcomes of Physeal-Sparing Intercalary Resections and Allograft Reconstructions of Pediatric Long Bone Sarcomas***Thomas Utset-Ward; Daryn Strub, BA; Thomas Scharschmidt, MD  
Nationwide Children's Hospital  
Columbus, OH, United States***#95**

2:52 PM–2:56 PM

**Surgical Complications After Structural Bone Allograft Reconstruction in Pediatric and Young Adult Primary Bone Tumors***Thomas Hodo; Paul Rizk; Saurav Pandey; Carrie Heincelman; Mark Gebhardt, MD; Megan Anderson, MD  
Boston Children's Hospital  
Boston, MA, United States***#96**

2:57 PM–3:01 PM

**A Ten-year Single-center Surgical Experience with 98 cases of Dysplasia Epiphysealis Hemimelica (Trevor's disease) in the Lower Extremity***Gang Fu, MD, PhD  
Beijing Jishuitan Hospital  
Beijing, People's Republic of China*

3:02 PM–3:10 PM Discussion



SESSION 8B. A MELANGE  
OF CASES

Room: Roman

**Moderators: John Birch, MD,  
FRCSC(C) & Stuart Weinstein, MD****2:00 PM–3:10 PM****Case 10**

2:00 PM–2:02 PM

**Intrinsic Foot Drop from Deep  
Peroneal Nerve Damage in a Young  
Athlete***Sonia Chaudhry, MD, BS, FAAOS, FACS;  
Francine Zeng  
Connecticut Children's Medical Center  
Hartford, CT, United States*

2:03 PM–2:08 PM Discussion

**Case 11**

2:09 PM–2:11 PM

**Knee Disarticulation in Arthrogyposis:  
A Quality of Life Salvage Operation***Lauren Hyer, MD; Emily Shull;  
David Westberry, MD  
Shriners Children's Greenville  
Greenville, SC, United States*

2:12 PM–2:17 PM Discussion

**Case 12**

2:18 PM–2:20 PM ★

**Gradual Lengthening Through the  
Fracture Site in Open Femoral Shaft  
Fractures with Segmental Bone Loss***Emmalynn Sigrist, DO; Jeffrey Nepple,  
MD; J. Gordon, MD  
Washington University in St. Louis  
St. Louis, MO, United States*

2:21 PM–2:26 PM Discussion

**Case 13**

2:27 PM–2:29 PM

**The Cork-screwed Humerus Leading  
to a Spiraling Arm Deformity***Venkatadass Krishnamoorthy, MD;  
Deepak Jain; S. Rajasekaran  
Ganga Hospital  
Coimbatore, Tamilnadu, India*

2:30 PM–2:35 PM Discussion

**Case 14**

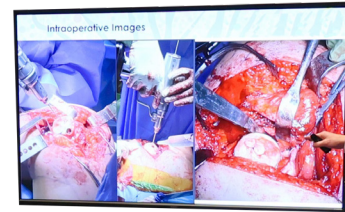
2:36 PM–2:38 PM

**Serial Drilling Technique for  
Subtrochanteric Femur Fractures in  
Osteopetrosis: A Case Report***Morgan Turnow; Adam Mansour;  
Ivan Slyepkan; Michael Anderson;  
James Iandoli; Anthony Wing;  
Allen Kadado, MD  
Nationwide Children's Hospital  
Columbus, OH, United States*

2:39 PM–2:44 PM Discussion

**Case 15**

2:45 PM–2:47 PM

**Form Follows Function: What is  
Anatomical May Not Be Functional***Vishal Sarwahi, MBBS, MS; Effat  
Rahman; Katherine Eigo; Terry Amaral,  
MD; Daniel Sciubba  
Northwell Health  
New Hyde Park, NY, United States*

2:48 PM–2:53 PM Discussion

**Case 16**

2:54 PM–2:56 PM

**Posterior Column Release and  
Lengthening with a Magnetic  
Growing Rod Construct in Severe  
Congenital Thoracic Fusion:  
A Report of Two Cases***Michael Trask; Jonathan Yamaguchi;  
Gregory Redding; Burt Yaszay, MD;  
Klane White, MD  
Children's Hospital Colorado  
Aurora, CO, United States*

2:57 PM–3:02 PM Discussion

**Case 17**

3:03 PM–3:05 PM

**Complications of Pedicle screw  
instrumentation: A Case of Tracheal  
Erosion in a Ventilator-Dependent  
Child***Talissa Generoso; Arianne Salunga;  
Kali Tileston, MD; Lawrence Rinsky, MD;  
John Vorhies, MD  
Stanford University  
Palo Alto, CA, United States*

3:06 PM–3:10 PM Discussion

★ The FDA has not cleared the drug and/or medical device for the use described in this presentation.



**8C. ALL ACES: A MASTERCLASS IN PEDIATRIC ORTHOPAEDICS****Time: 2:00 PM–3:10 PM****Room: Milano 1***Chairs: Donald Bae, MD & Julie Balch Samora, MD, PhD, MPH, FAAOS, FAOA*

You do not want to miss finishing your Vegas experience with POSNA's high rollers!

This quick-hitting session is devoted to helping all POSNA members be more successful in their own practices. You will hit the jackpot as our esteemed faculty provide practical tips and take-home pearls, from leading more effective teams to leveraging technology to add value. The faculty will provide valuable insights for providers at every level by going "all in" with stories of professional transitions and personal growth.

We're upping the ante, so join us for this final hand!

2:00 PM–2:03 PM

**Welcome***Donald Bae, MD & Julie Balch Samora, MD, PhD, MPH, FAAOS, FAOA***The Team, The Team, The Team***Moderator: Donald Bae, MD*

2:04 PM–2:08 PM

**How to Build High-Performing Teams***Michelle Caird, MD*

2:09 PM–2:13 PM

**Conflict and Difficult Conversations***Virginia Casey, MD***Tips for Future Success***Moderator: Julie Balch Samora, MD, PhD, MPH, FAAOS, FAOA*

2:14 PM–2:18 PM

**3 Intelligent Practice Hacks***Jonathan Schoenecker, MD, PhD*

2:19 PM–2:23 PM

**3 Social Media Likes***Jaysson Brooks, MD*

2:24 PM–2:34 PM

**Q&A****Professional Transitions, Personal Stories***Moderator: Steve Frick, MD*

2:35 PM–2:39 PM

**The Grass Isn't Always Greener***Lindsay Andras, MD*

2:40 PM–2:44 PM

**Where You Start Isn't Where You End***Corinna Franklin, MD*

2:45 PM–2:49 PM

**Post-Operative Care***James Kasser, MD*

2:50 PM–2:54 PM

**Complications***Paul Sponseller, MD, MBA*

2:55 PM–3:05 PM

**Q&A****What's Your Mission?***Donald Bae, MD*

3:06 PM–3:10 PM

**SESSION 9. CLOSING ACT:  
TRAUMA & EQUITY****Room: Octavius 12****Moderators: Coleen Sabatini, MD, MPH & Kali Tileston, MD****3:40 PM–5:00 PM****#97**

3:40 PM–3:44 PM

**Continuing Trend of Increased Operative Treatment of Clavicle Fractures in Adolescents Despite Lack of Evidence in the Literature***Jad Lawand; Kaveh Momenzadeh; Abdullah Ghali; David Momtaz; Javad Shariati; Rohit Siddabattula; Pooya Hosseinzadeh, MD**St. Louis Children's Hospital, Department of Orthopaedics, St. Louis, MO, United States***#98**

3:45 PM–3:49 PM

**Coronal Remodeling of Pediatric Distal Radius Fractures***Vineet Desai; Scott Mahon; Varshini Babu; Apurva Shah, MD, MBA  
The Children's Hospital of Philadelphia Philadelphia, PA, United States***#99**

3:50 PM–3:54 PM

**The Prevalence of Acute Compartment Syndrome in Pediatric Tibial Tubercle Fractures***Joshua Tadlock, MD; Victor Martinez; Natalia Pluta; Daniel Cognetti  
Brooke Army Medical Center San Antonio, TX, United States*

3:55 PM–4:03 PM

Discussion

**#100**

4:04 PM–4:08 PM

**Do Children with Accidental Gunshot-Related Fractures Experience Greater Risk of Mental Illness and Psychiatric Disorders? A Propensity Matched Study***Mehul Mittal; Aaron Singh; Rishi Gonuguntla; David Momtaz; Rohit Siddabattula; Pooya Hosseinzadeh, MD  
St. Louis Children's Hospital, Washington University School of Medicine in St. Louis  
St. Louis, MO, United States*



**#101**

4:09 PM–4:13 PM

**Screw-only Fixation Constructs for Pediatric Diaphyseal Tibia Fractures: A Comparative Analysis with Elastic Intramedullary Nailing and Plate Fixation**

*Andrew Pennock, MD; Rajvarun Grewal; Jessica Hughes, MD; Macy Dexter; Emma Cavendish; Tracey Bryan, MA; Benton Heyworth, MD  
Rady Children’s Hospital, San Diego San Diego, CA, United States*

**#102**

4:14 PM–4:18 PM

**Equal Work, Unequal Pay: Income Disparities by Gender in Pediatric Orthopaedic Surgery**

*Scott Mahon; Lee Haruno, MD; Divya Talwar, PhD, MPH, BDS; Eliza Buttrick, BA; Christine Goodbody; John “Jack” Flynn, MD; Apurva Shah, MD, MBA  
The Children’s Hospital of Philadelphia Philadelphia, PA, United States*

4:19 PM–4:27 PM

Discussion

**#103**

4:28 PM–4:32 PM

**Public Insurance Status is Associated with Lower Bracing Treatment Success in Infants with Developmental Dysplasia of the Hip**

*Jayna Lenders; Pranav Rajaram; Brandon Henry; Alex Gornitzky, MD; Ying Li, MD  
University of Michigan Ann Arbor, MI, United States*

**#104**

4:33 PM–4:37 PM ◆

**Who Says No? Understanding the Association of Self-Reported Demographics with Medical Record Chart Review Research Participation**

*Christian Ishag; Sarah Norman; Rhonda Cady; Todd Warner; Sriya Byrapuneni; Meghan Munger; Sara Morgan, PhD; Jennifer Laine, MD; Susan Novotny, PhD  
Gillette Children’s Specialty Healthcare Saint Paul, MN, United States*

**#105**

4:38 PM–4:42 PM

**Decoding the No-Show: What Predicts Postoperative Visit Cancellations in AIS?**

*Sydney Lee; Shanika De Silva; Michael Hresko, MD; Craig Birch, MD; Ata Kiapour, PhD, MMSc; Erin Trousdale; Nazgol Tavabi; Grant Hogue, MD  
Boston Children’s Hospital Boston, MA, United States*

4:43 PM–4:51 PM

Discussion

**PRESIDENTIAL TRANSFER**

4:52 PM–5:00 PM

*Kevin Shea, MD*

◆ Research supported by POSNA grant



**As we bid adieu,  
let’s come together to  
celebrate POSNA 2025!**

Enjoy refreshments, network with colleagues, and toast to learning something new this week.

**Join us in the Octavius Foyer  
5:00 PM–7:00 PM  
Friday, May 16**

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

## ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

### ePoster #1

#### Development of an Artificial Intelligence System for Interpreting Skeletal Age on Radiographs of the Knee: A Preliminary Study

*Kallie Chen; Elizabeth LaPlante; Lauren Huang; Marlee Yancey; Amog Mysore; Eunsun Cho; Anjelyna Siamphone; Ryan Furdock; Andrew Moyal; Raymond Liu, MD*  
Rainbow Babies and Children's Hospital  
Cleveland, OH, United States

### ePoster #2

#### Feasibility of Using Artificial Intelligence to Predict Postoperative Health-Related Quality of Life for Adolescent Idiopathic Scoliosis Patients

*Dusan Kovacevic; Aazad Abbas; Gurjovan Sahi; Jay Toor; Michael Kelly, MD; Suken Shah, MD; Amer Samdani, MD; Peter Newton, MD; Firoz Miyajni, MD, FRCS*  
British Columbia Children's Hospital  
Vancouver, BC, Canada

### ePoster #3

#### Leveraging Multi-Modal AI and Historical Clinical Data to Map Knee Cartilage Development: A 3D MRI Analysis of 3,111 Children and Young Adults

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

### ePoster #4

#### Predicting Contralateral SCFE Using Machine Learning: A Preliminary Multicenter Model

*David VanEenenaam; Daniel Maranhó; Carter Hall; Christopher DeFrancesco, MD; Eduardo Novais, MD; Wudbhav Sankar, MD*  
Children's Hospital of Philadelphia  
Philadelphia, PA, United States

### ePoster #5

#### WARNING: Utilization of ChatGPT in Scientific Writing: Beware of AI Generated Citations

*Ivan Slyepkan; Daria Anderson; Erin Samora; Julie Balch Samora, MD, PhD, MPH, FAAOS, FAOA, MPH, FAAOS, FAOA; Allen Kadado, MD; Kirsten Tulchin-Francis, PhD*  
Nationwide Children's Hospital  
Columbus, OH, United States

## BASIC SCIENCE

### ePoster #6

#### A New Validated Mouse Model Of Structural Spinal Deformity With Consistent Curve Type For Scoliosis Research

*Adam Yiu-Chung Lau; Zhe Zhang; Zongshan Hu; Tian Wenlin; Lik Hang Hung, FRCS; Kenneth Yang; Jack Cheng, MD; Huanxiong Chen; Zezhang Zhu; Wayne Lee*  
The Chinese University of Hong Kong  
Hong Kong SAR, People's Republic of China

### ePoster # 7 ♦

#### A Novel Model of Neuromuscular Contracture Reveals Pathological SMAD4 Signaling in Myotendon Drives Contracture Formation

*Varun Arvind; Hui Zhang; Peter Shyu; Edward Guo; Joshua Hyman, MD; Alice Huang*  
Columbia University  
New York, NY, United States

### ePoster #8

#### Biomechanical Evaluation of MPFL Reconstruction Techniques in Pediatric Patellae: A Comparative Analysis of Bone Tunnels and Suture Anchors

*David Baird; Henry Baird; Jude Alawa; Amin Alayleh; Thomas Johnstone; Calvin Chan; Kevin Shea, MD*  
Stanford University School of Medicine  
Stanford, CA, United States

### ePoster #9

#### Making Bones Bigger but Not Necessarily Better via a Simple Surgical Intervention

*Matthew Halanski, MD; Rajeev Chaudhary; Grant Ozaki; Max Twedt; Amy Pitschneider; Heather Hartwig Stokes; Ronald McCabe; Corinne Henak; Xiaoping Qian; Tom Crenshaw; Paul Campagnola; Kevin Eliceiri; Ellen Leiferman*  
Phoenix Children's  
Phoenix, AZ, United States

### ePoster #10

#### Quantitative Morphological Apical Intervertebral Disc Characteristics as Predictors of Curve Progression in Adolescents with Idiopathic Scoliosis

*Conor Boylan; Morgan Jones; Siddhant Kapoor; Arin Ellingson*  
Royal Orthopaedic Hospital, Birmingham  
Birmingham, United Kingdom

## CONGENITAL, SYNDROMIC, AND SKELETAL DYSPLASIA

### ePoster #11

#### "Lethal" Osteogenesis Imperfecta Need not be Lethal: Comprehensive Perinatal Care for Babies with Osteogenesis Imperfecta to Optimize Survival and Outcomes

*Ricki Carroll; Cristina McGreal; Sarah Little; Mahim Jain; Joanna Costa; Margaret Chou; Andrea Schelhaas; Jeanne Franzone, MD*  
Nemours Children's Hospital Delaware  
Wilmington, DE, United States

### ePoster #12

#### Connective Tissue Disease Patients Do Not Have Higher Rates of PJK Compared with Idiopathic EOS Following Growth Friendly Instrumentation

*K. Aaron Shaw, DO, FAAOS; John Smith; Paul Sponseller, MD, MBA; Joshua Pahys, MD; Brandon Ramo, MD*  
Children's Mercy Kansas City  
Kansas City, MO, United States

♦ Research supported by POSNA grant



**ePoster #13****Femoral Neck Fractures in Patients with Osteogenesis Imperfecta: High Rates of Complications and Need For Revision Surgery**

*Cynthia Nguyen, MD; Chris Makarewich, MD; Sharanya Akula; Selina Poon, MD; Robert Hyun Cho, MD*  
Shriners for Children Medical Center  
Pasadena, CA, United States

**ePoster #14****Long-Term Survival of Femoral Fassier-Duval Rods in Pediatric Patients with Osteogenesis Imperfecta**

*Danielle Chipman; Jessica Heyer, MD; Kiranpreet Nagra; Nicolas Pascual-Leone; Julia Retzky; Nnaoma Oji; Emilie Lijesen; Shae Simpson; Daniel Green, MD*  
Hospital for Special Surgery  
New York, NY, United States

**ePoster #15****Pain Management in Pediatric Cerebral Palsy Patients Undergoing Single-Event Multilevel Surgeries: Efficacy of Post-Operative Epidural Analgesia**

*Daniel Whittingslow; Camara Wooten; Aaron Christopher; Anna Vergun, MD*  
University of North Carolina Chapel Hill  
Chapel Hill, NC, United States

**ePoster #16****The Long-Term Impact of Early Short Segment Fusion in Congenital Scoliosis**

*Tyler Metcalf; Amer Samdani, MD; Mark Erickson, MD; Joshua Pahys, MD; Craig Louer, MD*  
Vanderbilt University  
Nashville, TN, United States

**ePoster #17****Threaded Non-Telescopic Rods Demonstrate Less Rod Prominence and Migration than Non-Threaded Non-Telescopic Rods in Patients with Osteogenesis Imperfecta: A Case-Control Study**

*Michael Cahill; Mahim Jain; Cristina McGreal; Richard Kruse, DO, MBA; Jeanne Franzone, MD*  
Nemours Children's Hospital Delaware  
Wilmington, DE, United States

**FOOT & ANKLE****ePoster #18****A Conservative Approach to Achilles Tenotomy After Ponseti Casting for Idiopathic Clubfoot: When to Cut the Cord?**

*Aria Darbandi, MD; Dylan Kluck, MD; Alec McCann; Jonathan Lash; Vincent Prusick, MD; Janet Walker, MD; Ryan Muchow, MD; Henry Iwinski, MD; Vishwas Talwalkar, MD*  
Shriners Hospitals for Children  
Lexington, KY, United States

**ePoster #19****Do Radiographic Diagnostic Criteria Accurately Differentiate Congenital Vertical Talus and Congenital Oblique Talus? A Validation Study**

*Smitha Mathew; Abdi Abud; Chauna Weyermuller*  
Children's Nebraska  
Omaha, NE, United States

**ePoster #20****Evaluation of Foot Osteotomies for Treating Residual Clubfoot Deformities in Ambulatory Children with Arthrogyposis**

*Sadettin Ciftci; Anuj Gupta; Chris Church; John Henley; Maureen Donohoe; Freeman Miller, MD; L. Reid Nichols, MD*  
Nemours Children's Health  
Wilmington, DE, United States

**ePoster #21****Lower Child Opportunity Index is associated with treatment delays and decreased prenatal evaluation for idiopathic clubfoot**

*Joshua Bram; Patrick Nian; Christopher Williams; Olivia Tracey; David Scher, MD; John Blanco, MD; Emily Dodwell, MD, MPH; Shevaun Doyle, MD*  
Hospital for Special Surgery  
New York City, NY, United States

**ePoster #22****Prenatal Clubfoot Consultations: Barriers to Accessing Information for Expectant Families and Downstream Effects on Bracing Compliance**

*Rusty Hartman; Brendan Jackson; Anthony Riccio, MD*  
Scottish Rite for Children  
Dallas, TX, United States

**ePoster #23****The Etiology of the Os Subfibular: A Prospective Ultrasound Study**

*Jacob Jones, MD; Cassidy Schultz; Bobby Van Pelt, MPH; Caroline Podvin; Kate Lampe; Shane Miller; Jane Chung; Charles Wyatt, NP; Benjamin Johnson; Henry Ellis, MD; Philip Wilson, MD*  
Scottish Rite For Children  
Dallas, TX, United States

**HAND & UPPER EXTREMITY****ePoster #24****Elbow Soft Tissue Apex as a Marker for the Anterior Humeral Line: An Anatomic Landmark**

*Jared Sain; Evan Lobato; Aryan Borole; Kikelola Afolabi-Brown; Joseph Hawes; Stephen Adolfsen, MD*  
Rutgers Robert Wood Johnson  
Medical School  
New Brunswick, NJ, United States

**ePoster #25****Impact of Obesity on Surgical Outcomes in Pediatric Upper Extremity Fractures: A Matched Cohort Analysis With One Year Follow-Up**

*David Momtaz; Jad Lawand; Blaire Peterson; Abdullah Ghali; Mary Cornaghie; Rohit Siddabattula; Pooya Hosseinzadeh, MD*  
St. Louis Children's Hospital,  
Department of Orthopaedics  
St. Louis, MO, United States

**ePoster #26****Open Physes and Outcomes Following Arthroscopic Stabilization of Shoulder Instability: A Concerning Truth with Five-Years Follow-up**

*Paul Chung; Halle Walls; Macy Dexter; Tracey Bryan, MA; Eric Edmonds, MD; John Schlechter, DO; Andrew Pennock, MD*  
Rady Children's Hospital, San Diego  
San Diego, CA, United States

**ePoster #27****The Bear Claw Maneuver for Testing Anterior Interosseous Nerve Function in Children**

Harrison Ferlauto; Erin Abbott; Christoph Schroen; Michael Hausman; Abigail Allen, MD; Sheena Ranade, MD  
Icahn School of Medicine  
New York, NY, United States

**HEALTH EQUITY, DIVERSITY,  
AND INCLUSION**
**ePoster #28****Female Representation in the POSNA Organization: 2014-2018 vs 2020-2024**

Harika Atluri; Hari Arneja; Emily Schaeffer, PhD; Rachel Goldstein, MD; Jennifer Laine, MD; Kishore Mulpuri, MBBS, MHSc, FRCSC  
University of British Columbia  
Vancouver, BC, Canada

**ePoster #29****Public Insurance is Associated with Delays to Surgery in Pediatric Patients with a First-Time Patellar Dislocation Involving a Loose Body**

Alexandra Dejneka; Amin Alayleh; David Kell; Casey Kuka; Kevin Orellana; Brendan Williams, MD; J. Todd Lawrence, MD, PhD; Neeraj Patel, MD, MPH  
Ann & Robert H. Lurie Children's Hospital of Chicago  
Chicago, IL, United States

**ePoster #30****Removing Race from Pulmonary Function Tests in Children with Idiopathic Scoliosis**

Karina Zapata, PT, DPT, PhD; Banahene Glover; Tilden Chima; Chan-Hee Jo, PhD; Jaysson Brooks, MD; Amy McIntosh, MD  
Scottish Rite for Children  
Dallas, TX, United States

**ePoster #31****Social Disadvantage and Adverse Slipped Capital Femoral Epiphysis Outcomes**

Sam Wimmer; Tiffany Phan; Tishya Wren, PhD; Rachel Goldstein, MD  
Children's Hospital Los Angeles  
Los Angeles, CA, United States

**ePoster #32****Socioeconomic Risk Factors for Delayed Presentation in Adolescent Idiopathic Scoliosis**

Nathaniel Hunter; Cole Payne; Aidan Wright; Jacob Siahann; Rohini Vanodia; Lindsay Crawford, MD; Shah-Nawaz Dodwad; Eric Klineberg; Rex Marco; Surya Mundluru, MD; Shiraz Younas, MD; Timothy Borden, MD  
The University of Texas Health Science Center in Houston  
Houston, TX, United States

**HIP****ePoster #33****Impact of Hip Vs. Knee Pain as the Presenting Symptom of Slipped Capital Femoral Epiphysis on Time to Imaging, Surgery, and Complications**

David Momtaz; Mehul Mittal; Rishi Gonuguntla; Beltran Torres-Izquierdo; Abhishek Tippabhatla; Rohit Siddabattula; Aaron Huser, DO; Pooya Hosseinzadeh, MD  
St. Louis Children's Hospital, Washington University School of Medicine in St. Louis  
St. Louis, MO, United States

**ePoster #34** ♦**Impact of Legg Calvé Perthes Disease on Mobility, Pain Interference, and Anxiety in Children Aged 6-10 Years Old – an Assessment Using PROMIS**

Christian Ishag; Todd Warner; Yasmin Hailer; Joseph Charla; Leila Mehraban Alvandi, PhD; Jennifer Laine, MD; Harry Kim, MD; Eric Fornari, MD; Susan Novotny, PhD  
Gillette Children's Specialty Healthcare  
Saint Paul, MN, United States

**ePoster #35****Joint Hypermobility Syndrome Increases Risk of Major Complications Following Periacetabular Osteotomy in Females with Symptomatic Hip Dysplasia**

Nancy Wan; Shanika De Silva; Young Kim, MD; Travis Matheney, MD; Michael Millis, MD; Eduardo Novais, MD  
Boston Children's Hospital  
Boston, MA, United States

**ePoster #36****Long-Term Outcomes of Slipped Capital Femoral Epiphysis Treated with In Situ Pinning: More Than 20 Years Follow Up, Patient-Reported Outcomes, and Rates of Conversion to Hip Arthroplasty**

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

**ePoster #37****Open Reduction with Ligamentum Teres Reconstruction – Short Term Outcomes of a Novel Technique for the Management of Grade IHDC III/IV, Idiopathic DDH**

Ethan Englert, MD; Adam Mansour; Daryn Strub, BA; Tucker Peabody; Kirsten Tulchin-Francis, PhD; Craig Smith, MD; Kevin Klingele, MD  
Nationwide Children's Hospital  
Columbus, OH, United States

**ePoster #38****Radiographic Analysis of Hip Dysplasia in Mal-positioned X-rays: Tolerance of Dysplastic Hip Parameters in Antero-Posterior Pelvic Images**

Alexander Chang; Andrew Wylie; Matthew Folkman; Katharine Hollnagel, MD; Sheridan Perry; Raymond Liu, MD  
University Hospitals Rainbow Babies and Children's Hospital  
Cleveland, OH, United States

**ePoster #39****Rates of Avascular Necrosis Following Reduction of Unstable Slipped Capital Femoral Epiphysis: A Thirty-Year Experience**

Jeffrey Nepple, MD; Lindsey Molina; Annmarie Wang; J. Gordon, MD; Zachary Meyer; Perry Schoenecker, MD  
Washington University School of Medicine  
St. Louis, MO, United States



**ePoster #40****Risk of Venous Thromboembolism in Adolescents Undergoing Pelvic Osteotomy: Insights from a Propensity-Matched Retrospective Cohort Study**

Mehul Mittal; Tiffany Lee; Katalina Acevedo; **Matthew Hooper**; Rohit Siddabattula; Pooya Hosseinzadeh, MD  
St. Louis Children's Hospital, Department of Orthopaedics  
St. Louis, MO, United States

**ePoster #41****Single-Event Versus Staged Open Reduction in Bilateral Developmental Dysplasia of Hip: Does Rate of Early Dislocation Vary?**

Gourav Jandial; Vuong Nguyen; Stephanie Pun, MD; Kishore Mulpuri, MBBS, MHS, FRCSC; Emily Schaeffer, PhD  
University of British Columbia  
Vancouver, BC, Canada

**ePoster #42****Worth a shot? the Value of Intra-articular Corticosteroid Injection in Predicting Pain Relief Following Periacetabular Osteotomy**

Carter Hall; David VanEenaam; Christopher DeFrancesco, MD; Naomi Brown; **Wudbhav Sankar, MD**  
Children's Hospital of Philadelphia  
Philadelphia, PA, United States

**INFECTON & TUMOR****ePoster #43****Does Patient Level of Affluence Impact Treatment and Outcome for Pediatric Osteosarcoma?**

David Kell; Daniel Yang; Sarah Wetzel; Julianna Lee; Kevin Orellana; **Alexandre Arkader, MD**  
Children's Hospital of Philadelphia  
Philadelphia, PA, United States

**ePoster #44****Unmasking the Hidden Culprit: Triradiate Osteomyelitis Masquerading as Pelvic Pyomyositis in Children**

Anoop Chandrashekar; Naadir Jamal; Brian Hou; Daniel Puczko; William Hefley; Katherine Hajdu; Jim Cassat; Jessica Leschied; Courtney Baker, MD; Stephanie Moore-Lotridge, PhD; **Jonathan Schoenecker, MD, PhD**  
Vanderbilt University Medical Center  
Nashville, TN, United States

**LOWER EXTREMITY & DEFORMITY****ePoster #45****Combined Root And Body (CRAB) Lateral Meniscus Tears in the Adolescent Population: An Underrecognized and Underreported Tear Pattern**

Karch Smith; James Bomar, MPH; **Andrew Pennock, MD**  
Rady Children's Hospital, San Diego  
San Diego, CA, United States

**ePoster #46****Early Clubfoot Recurrence Can Lead to More Frequent and Earlier Second Recurrences**

Claire Schaibley; Rohit Siddabattula; **Pooya Hosseinzadeh, MD**  
St. Louis Children's Hospital, Department of Orthopaedics  
St. Louis, MO, United States

**ePoster #47****Follow-Up After Hemiepiphysiodesis- Can We Do Better?**

Emilio Feijoo, BS; Shrey Nihalani, BS, BA; Hamp Sisson; Ellie Starnes; Gerald McGwin, PhD, MS; **Kevin Williams, MD**; Shawn Gilbert, MD; Michael Conklin, MD  
University of Alabama- Birmingham  
Birmingham, AL, United States

**ePoster #48** ◆**How Much Improvement In Patient-Reported Outcome Measures After Isolated Medial Patellofemoral Ligament Reconstruction Is Associated With Surgeon-Defined Satisfactory Outcomes? A JUPITER Study**

Saral Patel; Matthew Veerkamp; Beth Shubin Stein; **Shital Parikh, MD, FACS**  
Cincinnati Children's Hospital Medical Center  
Cincinnati, OH, United States

**ePoster #49****How Much Meniscal Translation is Normal? A Pediatric Physiologic Arthroscopic Meniscal Mobility Study**

Henry Ellis, MD; Cassidy Schultz; Dane Lind; Amin Alayleh; Marc Tompkins; Matthew Schmitz, MD; Yi-Meng Yen, MD; Theodore Ganley, MD; Kevin Shea, MD  
Scottish Rite For Children  
Dallas, TX, United States

**ePoster #50****Impact of Obesity on Surgical Outcomes in Pediatric Lower Extremity Fractures: A Propensity Matched Cohort Analysis**

David Momtaz; Quinn Ehlen; Jad Lawand; Blaire Peterson; Rohit Siddabattula; **Pooya Hosseinzadeh, MD**  
St. Louis Children's Hospital  
St. Louis, MO, United States

**ePoster #51****Type IV Tibial Tubercle Fractures in Adolescents – Is Operative Treatment Necessary?**

Shrey Nihalani, BS, BA; Emilio Feijoo, BS; Pearce Lane, MD; Adele Bloodworth, BS; Gerald McGwin, PhD, MS; Philip Ashley, MD; **Kevin Williams, MD**; Shawn Gilbert, MD; Michael Conklin, MD  
University of Alabama- Birmingham  
Birmingham, AL, United States

**ePoster #52****When Conservative Treatment Fails: A Comparison of Surgically Treated Idiopathic and Autism Spectrum Disorder-Associated Toe-Walking**

Sang Won Lee; Hillary Nguyen; Shanika De Silva; Winnie, Tzu-Hsuan Lin; Maria Canizares, MD, MPH; Benjamin Shore, MD, MPH, FRCSC; Michelle Mo, MD, PhD; **Collin May, MD, MPH**  
Boston Children's Hospital  
Boston, MA, United States

## MISCELLANEOUS

**ePoster #53****Beyond the Bones: Characterizing Family Psychosocial Needs of Pediatric Orthopedic Limb Difference Patients**

Morgan Spellman; Julia Sanders, md; Madeline Hornfeck, BS; Sarah Purtell, MD, BS; Sayan De, MD; Jessica Kenny University of Colorado Aurora, CO, United States

**ePoster #54****Family Preferences In The Treatment Of Completely Displaced Distal Radius Fractures**

Andrew Georgiadis, MD; Walter Truong, MD; Candace Young; Joseph Janicki, MD; Jamie Burgess, PhD Ann & Robert H. Lurie Children's Hospital of Chicago Chicago, IL, United States

**ePoster #55****Family Preferences In The Treatment Of Medial Epicondyle Fractures**

Collin May, MD, MPH; Joseph Janicki, MD; Candace Young; Jamie Burgess, PhD Ann & Robert H. Lurie Children's Hospital of Chicago Chicago, IL, United States

**ePoster #56****Pediatric Orthopaedic Fellowship: Are you Paying your Fellow Fairly?**

Collin Touns; Peter Carr; R. Carter Clement, MD, MBA; Srikanth Mudiganty, MD LSUHSC-New Orleans New Orleans, LA, United States

**ePoster #57****Relative Closure Of Growth Plates In The Upper And Lower Extremity Using A Serial Radiographic Collection**

Marlee Yancey; Neelufar Raja; Ryan Furdock; Raymond Liu, MD Rainbow Babies and Children's Hospital at Case Western Reserve University Cleveland, OH, United States

**ePoster #58****What Proportion of Pediatric Surgical Cases are Performed by Pediatric Orthopaedic Surgeons? A 17-Year Study Using the ABOS Database**

Krish Shyam Sardesai; Lucas Georger; Wudbhav N. Sankar, MD; Ena Nielsen, BA; Javad Shariati; Rohit Siddabattula; Pooya Hosseinzadeh, MD St. Louis Children's Hospital, Department of Orthopaedics St. Louis, MO, United States

## NEUROMUSCULAR

**ePoster #59****Anterior Distal Femoral Hemiepiphysiodesis Procedure: A Comparison of Antegrade Versus Retrograde Insertion**

Kellen Krajewski; Jessica Stockhausen, MS; Amanda Vinson; Lucas Moore; Scott Miller; James Carollo; Radomir Dimovski, MD; Jason Rhodes, MD; Sayan De, MD

Children's Hospital Colorado | University of Colorado Anschutz Aurora, CO, United States

**ePoster #60****Assessing Orthopaedic Outcomes in Children with Spinal Dysraphism: A core outcome set for research and treatment**

Anna Bridgens; Jason Mavrotas; Donato Giuseppe Leo; Alpesh Kothari, MA, BM, BCh, AFHEA, MSc, DPhil, FRCS; Alaric Aroojis, M.S. (Ortho), D'Ortho, DNB (Ortho); James Wright, MD, MPH; Deborah Eastwood, MD; Yael Gelfer, MD, PhD St George's University NHS Foundation Trust London, United Kingdom

**ePoster #61****Outcomes of Casting Versus Surgical Treatment for Children with Idiopathic Toe Walking on Gait Abnormalities**

Jeremy Bauer, MD; Susan Sienko; Bruce MacWilliams; Mark McMulkin; Jon Davids, MD Shriners Children's Portland Portland, OR, United States

**ePoster #62****Risk of Hip Displacement in Patients with Leukodystrophy by Genetic Diagnosis**

Maia Regan; Keith Baldwin, MD; David Spiegel, MD; Christine Goodbody The Children's Hospital of Philadelphia Philadelphia, PA, United States

## QUALITY, SAFETY, AND VALUE INITIATIVES

**ePoster #63****Are Preoperative Hematological Screening Tests Associated with Allogeneic Transfusion in Idiopathic Scoliosis Surgery?**

Vivien Chan; Suhas Etigunta; Armaan Malhotra; Geoffrey Shumilak; David E Lebel, MD, PhD; Kenneth Illingworth, MD; David Skaggs, MD Cedars-Sinai Medical Center Los Angeles, CA, United States

**ePoster #64****Bracing for Change: Evaluating Evidence Versus Practice in the Treatment of Pediatric Torus Fractures of the Radius**

Emil Varas; Saral Patel; Emmanouil (Manos) Grigoriou, MD; William Shaughnessy, MD; Anthony Stans, MD; Todd Milbrandt, MD; A. Noelle Larson, MD Mayo Clinic Rochester, MN, United States

**ePoster #65****Deep Vein Thrombosis Following Elective Pediatric Orthopedic Surgery: An ACS NSQIP Pediatric Study**

Samuel Ramirez; Stuart Ferrell; Jessica McGraw-Heinrich, MD; Nicole Montgomery, MD Texas Children's Hospital Houston, TX, United States

**ePoster #66****Improving the Efficiency of Pediatric Posterior Spinal Fusion Precertification**

Lynessa McGee; Jennifer Anadio; Taryn McCarthy-Isfort; Marie Pope, BS; Kelly B. Incerpi; Viral V. Jain, MD; Peter F. Sturm, MD; Alvin C. Jones, MD, MS Cincinnati Children's Hospital Medical Center Cincinnati, OH, United States



**ePoster #67****Not Just Fun and Games: Certified Child Life Specialists Improve Success Rate of Young Children Undergoing MRI Studies Without Anesthesia**

Olivia Tracey; Colson Zucker; Jenna Wisch; Akshitha Adhiyaman; Ankush Thakur; Melissa Collins; Jessica Parise; John Denneen; Diego Jaramillo, MD, MPH; Hollis Potter, MD; Lisa Ipp; Jessica Heyer, MD  
Hospital for Special Surgery  
New York, NY, United States

**ePoster #68****Perioperative Pathway for Spinal Fusion in Adolescent Idiopathic Scoliosis: A Quality Improvement Project**

Lorena Floccari, MD; Michael Bigham; Kenzie Lundqvist; Matt Holloway; Alexandria Rundell; Richard Steiner; Todd Ritzman, MD  
Akron Children's Hospital  
Akron, OH, United States

## SPINE

**ePoster #69****"Cured" Patients With Early Onset Idiopathic Scoliosis (EOIS) After Serial Casting Are at Risk of Recurrence at Intermediate Follow-up**

Rayyan Abid; Abigail Manning; Craig Birch, MD; Peter Sturm, MD; Ying Li, MD; Michal Szczodry; Michael Glotzbecker, MD; Pediatric Spine Study Group  
UH Rainbow Babies & Children's Hospital  
Cleveland, OH, United States

**ePoster #70****Achieving "Ideal" Sagittal Alignment Does Not Influence HRQoL Outcomes 5 Years Following PSF for Lenke 1 AIS**

K. Aaron Shaw, DO, FAAOS; Michael Kelly, MD; Nicholas Fletcher, MD  
Children's Mercy Kansas City  
Kansas City, MO, United States

**ePoster #71****Bracing Outcomes in Pediatric Patients with Autism Spectrum Disorder and Adolescent Idiopathic Scoliosis**

Jason Amaral; Antony Kallur; Rebecca Schultz; Lori Dolan, PhD; Benjamin Martin; Pablo Coello; Barkha Chhabra; Darrell Hanson; Frank Gerow, MD; Brian Smith, MD  
Texas Children's Hospital  
Houston, TX, United States

**ePoster #72****Can a Novel AI-Based Predictive 3D Imaging Software for Idiopathic Scoliosis Obviate the Need for Routine Xrays?**

Abdullah AIDuwaisan; Hani Alharbi; Joel Maliakkal; Carolina Ricardo; Shaina Sim; Firoz Miyanji, MD, FRCSC  
BC Children's Hospital, University of British Columbia  
Vancouver, BC, Canada

**ePoster #73****Changes in Pulmonary Function During Growth Friendly Treatment of Early Onset Scoliosis: The Importance of Apical Translation**

Scott Yang, MD; Natalie Maharaj; Apeksha Gupta; Michael Trask; Anna Faino; Sean Pirkle; Kelson Adcock; Jennifer Bauer, MD, MS; Burt Yaszay, MD; Gregory Redding  
Seattle Children's Hospital, University of Washington  
Seattle, WA, United States

**ePoster #74****Clavicle Angle and Concordant T1 Tilt Can Reliably Predict Postoperative Shoulder Balance, defined by Radiographic Shoulder Height, in Adolescent Idiopathic Scoliosis (AIS) Patients**

Vishal Sarwahi, MBBS, MS; Effat Rahman; Katherine Eigo; Yungtai Lo; Terry Amaral, MD  
Northwell Health  
New Hyde Park, NY, United States

**ePoster #75****Complications in Halo Gravity Traction: A 40-Year Longitudinal Review**

Anne-Marie Datcu; Anna McClung, BSN; David Thornberg; Jaysson Brooks, MD; Daniel Sucato, MD, MS; Karl Rathjen, MD; Brandon Ramo, MD  
Scottish Rite Hospital for Children  
Dallas, TX, United States

**ePoster #76****Do Radiographic Criterion Predict the Presence of Intraspinal Anomalies in Patients with Presumed AIS?**

K. Aaron Shaw, DO, FAAOS; Connor Mathes; Michael Benvenuti, MD; Richard Schwend, MD; John Anderson, MD  
Children's Mercy Kansas City  
Kansas City, MO, United States

**ePoster #77****Does Open Triradiate Cartilage Lead to Poor Outcomes Among Cerebral Palsy Patients Undergoing Spinal Fusion?**

John Vorhies, MD; Nicole Pham; Arun Hariharan, MD, MS; Peter Newton, MD; Craig Louer, MD; Burt Yaszay, MD; Maty Petcharaporn; Firoz Miyanji, MD, FRCSC; Marleni Albarran  
Stanford  
Palo Alto, CA, United States

**ePoster #78****Longitudinal Pulmonary Function in Early Onset Scoliosis**

Scott Yang, MD; Michael Trask; Natalie Maharaj; Apeksha Gupta; Anna Faino; Sean Pirkle; Kelson Adcock; Jennifer Bauer, MD, MS; Burt Yaszay, MD; Gregory Redding  
Seattle Children's Hospital, University of Washington  
Seattle, WA, United States

**ePoster #79****Motion Preservation Following Posterior Dynamic Distraction Device for Adolescent Idiopathic Scoliosis Using 3-D Motion Analysis**

Michael Albert, MD; Tessa Hill; Angela Lu, NP; Ann Smith; Michael Breneman; Megan Reissman  
Dayton Children's Hospital  
Dayton, OH, United States

**ePoster #80****MRI Generated Synthetic CT in Pediatric Spine Patients**

George Michael; Suhas Etigunta; Andy Liu; David Skaggs, MD; Meliza Perales; Cristabelle Alexander; Christopher Watterson; Daniel Hoghoughi; Norman Gellada; Kenneth Illingworth, MD  
Cedars Sinai Medical Center  
Los Angeles, CA, United States

**ePoster #81****Posterior Dynamic Distraction for Adolescent Idiopathic Scoliosis: Minimum 2 Year Follow Up Results of 80 Consecutive Patients**

Geoffrey Haft, MD; Michael Albert, MD; Timothy Oswald, MD; Gilbert Chan, MD; Ryan Fitzgerald, MD; Alvin Jones, MD, MS; Kevin Neal, MD; A. Noelle Larson, MD; Todd Milbrandt, MD; Nigel Price, MD; Baron Lonner, MD; Christina Hardesty, MD; John Anderson, MD; Ron El-Avera  
McKenna University Hospital  
Sioux Falls, SD, United States

**ePoster #82****Predicting Unplanned Return to the Operating Room in Early-Onset Scoliosis Patients Using Machine Learning Techniques: A Multicenter Model**

Brett Lullo, MD; Patrick Cahill, MD; John "Jack" Flynn, MD; Paul Sponseller, MD, MBA; Mark Erickson, MD; Amer Samdani, MD; John Smith, MD; Pediatric Spine Study Group; Jason Anari, MD  
Lurie Children's Hospital of Chicago  
Chicago, IL, United States

**ePoster #83****Pre-Operative EOSQ-24 Scores are Worsening Over Time**

Rayyan Abid; Sumeet Garg, MD; Benjamin D. Roye, MD; Mark A. Erickson, MD; Michael P. Glotzbecker, MD; Christina K. Hardesty, MD; Pediatric Spine Study Group  
UH Rainbow Babies & Children's Hospital  
Cleveland, OH, United States

**ePoster #84****Preoperative Halo Gravity Traction (HGT) is Associated with Improved Correction in Pediatric Patients with Severe Neuromuscular Scoliosis**

Brandon Ho, MS; Peter Huang, MS; Pediatric Spine Study Group; Ishaan Swarup, MD  
University of California, San Francisco  
San Francisco, CA, United States

**ePoster #85** ◆**Surgical Correction of Scoliosis Restores Balance: A Prospective Motion Analysis Study**

Ria Paradkar; Christina Regan; Kathie Bernhardt; Kenton Kaufman; Todd Milbrandt, MD; A. Noelle Larson, MD  
Mayo Clinic  
Rochester, MN, United States

**ePoster #86****The Influence of Anxiety and Mood Disorders on Post-Operative Pain in Pediatric Scoliosis Surgery**

David Momtaz; Jad Lawand; Blaire Peterson; Abdullah Ghali; Rohit Siddabattula; Blake Montgomery, MD; Pooya Hosseinzadeh, MD  
St. Louis Children's Hospital,  
Department of Orthopaedics  
St. Louis, MO, United States

**ePoster #87****What Happens When You Wait? Larger Curves Require More Resources for Less Correction in Neuromuscular Scoliosis**

Brandon Yoshida; Jacquelyn Valenzuela-Moss; Tyler Tetreault, MD; Tishya Wren, PhD; Tiffany Phan; Lindsay Andras, MD; Michael Heffernan, MD  
Children's Hospital Los Angeles  
Los Angeles, CA, United States

## SPORTS

**ePoster #88****Bioabsorbable Screw Fixation for Tibial Tubercle Osteotomy in Adolescents: Do They Offer Better Results Than Metallic Screws?**

Luis Moraleda Novo, MD, PhD; Alberto Losa Sánchez; Joaquín Nuñez De Armas, MD; Gaspar Gonzalez Moran  
La Paz University Hospital  
Madrid, Spain

**ePoster #89****Challenges of More Stringent Adolescent Return to Sports Criteria after ACL Reconstruction: Passing Rates and Reinjury Prediction**

Elliot Greenberg; Kevin Landrum; Aubree Brown; Victoria Cabezas; Sulagna Sarkar; J. Todd Lawrence, MD, PhD; Theodore Ganley, MD  
Children's Hospital of Philadelphia  
Philadelphia, PA, United States

**ePoster #90****Comparison Between Performance Of Disease-Specific And Region-Specific Patient Reported Outcome Measures For Patellar Instability In An Adolescent Population: Data From The JUPITER Cohort**

David Segal, MD, MPH; Shital Parikh, MD, FACS; Matthew Veerkamp; Eric Wall, MD; Daniel Green, MD; Philip Wilson, MD; Benton Heyworth, MD; Henry Ellis, MD; Marc Tompkins; Jacqueline Brady; Beth Shubin Stein  
Cincinnati Children's Hospital Medical Center  
Cincinnati, OH, United States

**ePoster #91****Is It Worth Repairing Unstable Discoid Meniscus? A Long-Term Analysis Following Meniscal Repair with a Minimum of 5 Years Follow-Up**

Mauricio Drummond, MD; Joseph Charla; Steven Henick; Emily Ferreri; Emmanuel Mbamalu; Edina Gjonbalaj; Leila Mehraban Alvandi, PhD; Jacob Schulz, MD; Eric Fornari, MD  
Montefiore Einstein  
Bronx, NY, United States



**ePoster #92****Micheli-Kocher Anterior Cruciate Ligament Reconstruction Yields Similar Postoperative Outcomes and Rates of Return to Sports as All-Epiphyseal Techniques: A Systematic Review**

Alexander Zakharia; Ahmed Hatem; Fares Al Katanani; Saihajleen Dhillon; Prushoth Vivekanantha; Dan Cohen; Darren De SA  
McMaster University  
Hamilton, ON, Canada

**ePoster #93****MPFL Reconstruction with Grammont Is Safe and Effective in Pediatric Patients with Patellar Instability and Increased TT-TG Distance: A Comparison Study**

Anthony Dure; Evan Sheppard, MD; Syed Ahmed, MD; Md Sohel Rana; Emily Niu, MD  
Children's National Hospital  
Washington, DC, United States

**ePoster #94****Posteromedial Tibial Bone Bruise Signal is Associated with Concomitant Medial Meniscal Injury in Adolescents Undergoing Anterior Cruciate Ligament Reconstruction**

John Reynolds; Edward Major; Kyle Boden; Tim Westbrook; Caitlin Conley; Austin Stone; Mary Ireland; Darren Johnson; Benjamin Wilson, MD  
University of Kentucky  
Lexington, KY, United States

## TRAUMA

**ePoster #95****Characteristics and Treatment for Concomitant Radial Head and Olecranon Fractures**

Rohit Siddabattula; Ethan Blum; Claire Schaibley; Feross Habib; Diego Najera Saltos; Lindley Wall, MD; Charles Goldfarb, MD; Pooya Hosseinzadeh, MD  
St. Louis Children's Hospital,  
Department of Orthopaedics  
St. Louis, MO, United States

**ePoster #96****Clinical Outcomes Are Not Affected with Prompt versus Delayed Treatment of Pediatric Supracondylar Humerus Fractures**

Joshua Meier, MD; Kelly Jenkins, MD; Jennifer Brey, MD; Kent Walker, DO; Laura Jacks; Theresa Kluthe  
Norton Childrens Hospital  
Louisville, KY, United States

**ePoster #97****Okay to Play! Do Activity Restrictions Matter During Treatment of Pediatric Distal Radius Buckle Fractures? A Prospective Study**

Dustin Greenhill, MD; Neil Jain; Robert Gomez, MD; Nicholas Grimm; Kylie Coffield  
St. Luke's University Health Network  
Bethlehem, PA, United States

**ePoster #98****Unseen Consequences: Elevated Risk of Lead Toxicity in Pediatric Gunshot Wound Victims**

David Momtaz; Jad Lawand; Blaire Peterson; Abdullah Ghali; Rohit Siddabattula; Pooya Hosseinzadeh, MD  
St. Louis Children's Hospital,  
Department of Orthopaedics  
St. Louis, MO, United States

**ePoster #99****Variability in the Care of Thoracolumbar (TL) Pediatric Spine Trauma**

Manya Bali; Craig Birch, MD; Shanika De Silva; Meghana Venkatesh; Maria Canizares, MD, MPH; Daniel Hedequist, MD; Benjamin Shore, MD, MPH, FRCSC; CORTICES Study Group  
Boston Children's Hospital  
Boston, MA, United States

**ePoster #100****Wait to Check: Do Early Post-Intervention Radiographs Change Management After Pediatric Femur Fractures?**

Kylie Shaw; Sarah Purtell, BS; Madeline Hornfeck, BS; Patrick Carry; Julia Sanders, MD  
University of Colorado  
Aurora, CO, United States

## 2024 American Academy of Pediatrics Section on Orthopaedics Young Investigator Award Winner

### DIVERSITY EQUITY AND INCLUSION

#### Are You Listening? The Experience of Black Parents and Caregivers in Accessing Pediatric Orthopaedic Care

*Eliza Buttrick, BA; Apurva Shah, MD, MBA; Raghav Badrinath, MD; Sulagna Sarkar, MS; Jaysson T. Brooks, MD; Coleen S. Sabatini, MD, MPH; Sarah Coufal, BS; Christine M. Goodbody, MD; Bernard D. Horn, MD; J. Todd R. Lawrence, MD, PhD; Kathleen J. Maguire, MD; Lawrence Wells, MD; Bredan A. Williams, MD; Lee S. Haruno, MD*  
The Children's Hospital of Philadelphia  
Division of Orthopaedics  
Philadelphia, Pennsylvania, United States

### HIP, LOWER EXTREMITY

#### Incidence of Tibial Tubercle Fractures in Patients with and without Osgood- Schlatter Disease

*Rigel P. Hall, BS; Aristides I Cruz, Jr., MD, MBA; John D. Milner, MD; J. Alex Albright, BS; Tucker C. Callanan, MD; Alan H. Daniels, MD*  
Brown University, Warren Alpert Medical School  
Providence, Rhode Island, United States

### SPINE

#### Preoperative Intrathecal Morphine Injection is Superior in Terms of Pain Control when Compared to a Post- Incisional Injection

*Katherine Eigo, BA; Terry Amaral, MD; Vishal Sarwahi, MD; Sayyida Hasan, BS; Keshin Visahan, BS; Peter Boucas, DO; Effat Rahman, BS; Michelle Kars, MD; Jon-Paul DiMauro, MD; Benita Liao, MD; Yungtai Lo, PhD*  
Cohen Children's Medical Center  
Queens, New York, United States

### Patient's Perceived Flexibility After a Spinal Fusion

*Effat Rahman, BS; Terry Amaral, MD; Keshin Visahan, BS; Vishal Sarwahi, MD; Katherine Eigo, BA; Sayyida Hasan, BS; Himanshu Rao, BS; Britteny Moncrieffe, BS; Kiara Thompson, BS; Hannah Travers, BS; Sanjeev Suratwala, MD, MBA; Yungtai Lo, PhD*  
Cohen Children's Medical Center  
Queens, New York, United States

### SPORTS, F&A

#### Different Roads Traveled: Disparities in the Preoperative Timeline Result in Delays to Pediatric Anterior Cruciate Ligament Reconstruction

*Michelle A. Nutescu, BS Biomedical Engineering- Pre-Medicine; Neeraj M. Patel, MD, MPH, MBS; Samuel Rosenberg, MD; Elizabeth H. Merritt, BS*  
Ann & Robert H. Lurie Children's Hospital  
Chicago, Illinois, United States

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## Artificial Intelligence and the Pediatric Orthopaedic Surgeon

Chair: Kevin Neal, MD, MBA

**75 minutes**

\*This year's symposium from the Practice Management Committee focuses on the capabilities and benefits that artificial intelligence (AI) offers for pediatric orthopaedic surgeons. By highlighting real-world success stories and innovative applications, the symposium will encourage the integration of AI tools into current practice. Topics will cover AI applications for hospital and clinic settings, as well as their use for quality initiatives and research. (\*composed from a draft produced by an AI language model)

### Introduction

Kevin Neal, MD, MBA

### Using AI to Improve Operational Efficiency and Staff Wellness in the Perioperative Setting

Teodor Grantcharov, MD, PhD, FACS

### AI for Research – Grants, Data Analysis, Manuscript Writing, and PROMs

Rene Caissie, MD

### The Future of Surgery: Using Artificial Intelligence to Produce Fully Objective Data

Nathaniel Smith

### GPT to Improve Efficiency in Quality and Safety Reporting

Keith Morse, MD, MBA

### How AI Can Re-Imagine Your Musculoskeletal Practice

Alfred Atanda, Jr., MD

### Developing an AI/Machine Learning Tool to Predict Healing of OCD

Kevin Shea, MD

### TBD (Development of an AI Machine Learning Algorithm to Diagnose Hip Dysplasia

Ayoosh Pareek, MD



## POSNA Research Priorities and Vision

Chairs: Jennifer Laine, MD; A. Noelle Larson, MD; Apurva Shah, MD

**75 minutes**

In response to the Member Needs Assessment and in alignment with the POSNA Strategic Plan, the POSNA Research Council has embarked upon multiple recent initiatives. This symposium will highlight key areas of these efforts, in particular, the ways in which POSNA Research involvement will become more accessible to the POSNA Membership. These initiatives aim to focus research priorities, to provide clarity around preferred patient-reported outcome measures, and to discuss the process for surveys. The development of Surgeon Quality Improvement Databases (SQID) will invite broad participation across the membership. The generous support of the Roshen Irani Grants and the growing collaboration between the Research and JEDI Committees will strengthen the future of POSNA Research.

### Introduction

Apurva Shah, MD, MBA

### POSNA Research Priorities Consensus

A. Noelle Larson, MD

### Priority POSNA Patient Reported Outcome Measures

Stuart Mitchell, MD

### POSNA Survey Research

Neeraj Patel, MD, MPH

### The Role of Surgeon Quality Improvement Databases (SQIDs) at POSNA

Kali Tileston, MD

### Roshen Irani Grants and Collaboration between Research and JEDI Committees

Corinna Franklin, MD & Jennifer Laine, MD

### Next Steps and Conclusion

Apurva Shah, MD, MBA

## Looking Beyond Individual Patient Outcomes: Considering The Environmental Impact Of Our Clinical And Surgical Decisions

*Chairs: Laura Bellaire, MD & Hilton Gottschalk, MD*

**50 minutes**

This virtual symposium is designed to provide listeners with perspective on the scope and scale of environmental and associated public health impacts specific to pediatric orthopaedic surgery. Presenters will aim to provide an understanding of the ramifications of current utilization trends on global communities and our natural environment. Learners will be encouraged to reflect on their individual clinical decision making through this lens. Specifically, discussions will center opportunities to reduce unnecessary harm to the environment through preoperative planning, materials utilization, and communication with clinical and surgical teams. Challenges and successful strategies will be reviewed, with a focus on opportunities to build camaraderie and efficiency while reducing waste and cost. Specific education and mentorship strategies will be explored to promote dialogue, encourage diverse participation, and prepare our future workforce to advocate on behalf of their patients, peers, and health systems.

### Introduction

**Reflecting on our Current Practices: A Review of Recent Literature Surrounding Surgical Waste, Overage, Unnecessary Transfers, and Overtreatment**

*Hilton Gottschalk, MD*

*“Orthopaedic surgeons, through education, are helping to shape sustainable systems that benefit patients, healthcare, and the environment.”*

*Verena Schreiber, MD*

**Planning for Your Anticipated Needs and wants in the OR: How Surgeons Can Use Preoperative Planning to Strengthen Camaraderie and Efficiency Amongst OR Teams**

*Laura Bellaire, MD*

**Exploiting Existing EMR Tools to Optimize Communications and Reduce Waste with Your Surgical Team: Electronic Case Scheduling & Surgical Receipts**

*Kali Tileston, MD & Kevin Shea, MD*

**Sustainable Orthopaedic Procurement: Questions to Ask Your Industry Partners and Vendors, Transparency, and Critically Assessing Performance**

*Smitha Warrior, MD, FASA*

**Is a Focus on Surgical Efficiency at Odds with Innovation? Strategies to Run a Tight Ship in the OR without Curbing Creativity or Curiosity**

*Peter Nichol, MD, PhD*

**Future Improvements Rely on Data: The Importance of Quality Improvement & Unique Challenges in Implementing Change within Your Health System**

*Sonia Chaudhry, MD, BS, FAAOS, FACS*

**Education as a Key Enabler: Orthopaedic Surgeons are Engaging with their Departments & Health Systems to Envision More Sustainable Systems and Promote Behavioral Change Amongst Surgeons and OR Teams**

*Verena Schreiber, MD*

**Considerate Mentorship & Reverse Mentorship Strategies to Enable Sustainability-Focused Orthopaedic Research, Uplift Diverse Contributors, and Engage Senior Colleagues**

*Jill Larson, MD*

**Panel Discussion: Voices of Aspiring Orthopaedic Surgeons**

*Olivia Grothaus (PGY5 Univ of Utah); Daisy Lookinland (MS2 Drexel); Sam Noonan (MS2 CU); Ravi Rajendra (PGY4 LSU); Katherine Velicki (PGY4 OHSU)*



## Navigating Change: Transitioning Pediatric Orthopedic Patients with Lifelong Conditions to Adulthood

*Chairs: Elinor Berger, MS, NP, RN & Paige Wheaton, MPAS, PA-C, ATC*

### 60 Minutes

Many pediatric patients with lifelong conditions often do not have a reliable medical community and face many challenges as they transition into adulthood. These can include insurance changes/requirements, institutional age limitations, and overall lack of understanding of their needs from the adult orthopedic community. Additionally, many patients and families lack understanding of the challenges one can face during this transition, and often do not anticipate and plan appropriately as a result. This symposium has been planned by the Pediatric Orthopaedic Practitioners Society (POPS).

### Understanding the Landscape of Transition Medicine: Challenges and Strategies for Success

### Change through a Patient's Lens: Insights and Reflections

### Orthopaedics in Transition: Current Concepts, Pitfalls, and Future Directions

### The Journey to Success: the Essential Keys of Implementing a Specialty Transition Clinic

### Panel Discussion

## Disaster Response and the Pediatric Patient

*Chairs: Philip McClure, MD & Benjamin Sheffer, MD*

### 90 Minutes

Disaster preparedness is a critical component of orthopedic training despite minimal exposure within most residency programs. This POSNA Trauma Committee virtual symposium offers a brief overview of vital aspects of disaster response, while pointing attendees to high quality resources for further study. Several high-profile examples of disasters will be reviewed, with attention to lessons learned and the improvements made at each hospital system as a result.

### Introduction

*Philip McClure, MD*

### Incident Command System

*Benjamin Sheffer, MD*

### Value of Preparedness and Triage

*Elhanan Bar-On, MD, MPH*

### Disaster Response Lessons Learned: Boston Marathon

*Benjamin Shore, MD, MD, MPH, FRCSC*

### Disaster Response Lessons Learned: Pediatric Ballistic Mass Casualty

*Abby Howenstein, MD*



## Management of Pediatric Osteoarticular Infections

*Chairs: Christine Goodbody, MD, MBE; Oduche Igboechi, MD, MPH, MBA; Anna Rambo, MD*

### 90 Minutes

The 2025 Pediatric Orthopaedic Global Outreach (POGO) Virtual Symposium will focus on osteoarticular infections. An expert panel including speakers from different regions of Africa, will discuss diagnosis and treatment of early and late sequelae of septic arthritis and osteomyelitis in skeletally immature patients. The symposium will conclude with an introduction of the 2024/2025 POGO scholars and their original research presentations.

#### Introduction

*Anna Rambo, MD (U.S.)*

#### Management of Post-Infectious Long Bone Defects

*Emeka Izuagba, MBBS (Nigeria)*

#### Potts Disease

*Joseph Theuri, MD (Kenya)*

#### Neglected Septic Hip

*Netsanet Mengiste, MD (Ethiopia)*

#### Septic Arthritis Updates

*Keith Baldwin, MD (U.S.)*

#### Panel Discussion

*Christine Goodbody, MD, MBE & Oduche Igboechi, MD, MPH, MBA*

#### Introduction of POGO Scholars and POGO Scholar Program

*Michelle, Mo, MD, PhD (U.S.)*

#### POGO Scholars: Bag of Bones

#### Panel Discussion

*Michelle, Mo, MD, PhD (U.S.)*

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# POSNA APP



## SPRING MICROGRANTS

**Tyler Augi — \$1,000**

**(Funded by Orthofix)**

*Determining the Decision Support Needs of Patients Considering PAO*

UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA

**Alyssa Barré, MD — \$1,000**

*CASTING Education for Pediatric Patients in the Form of a Children's Book*

University of Kentucky, Lexington, KY

**Patrick Curran, MD — \$1,000**

**(Funded by Washington University St. Louis)**

*Development of Accessible Gait Analysis Curriculum for Orthopaedic Trainees*

Rady Children's Hospital - San Diego, San Diego, CA

**Theodore Ganley, MD — \$1,000**

**(Funded by Novadip)**

*Effect of Sports Participation on Grit in High School and Graduate Students*

The Children's Hospital of Philadelphia, Philadelphia, PA

**Stephanie Ilnow, MD — \$1,000**

*Initiation of a Scoliosis Brace Graduation Celebration*

University of Florida, Gainesville, FL

**Sean Tabaie, MD — \$1,000**

*Development of Provider Educational Infographics for Neuro-Orthopaedics*

Children's National Medical Center and Children's Research, Washington, DC

**Natalie Zusman, MD — \$1,000**

*Ottawa Rules for SCFE*

Northwest Permanente, P.C., Portland, OR

## FALL MICROGRANTS

**Nikolaos Paschos, MD, PhD — \$2,500**

*Brace Repurposing for Underserved Children and Adolescents*  
Massachusetts General Hospital, Boston, MA

**Brian Lynch, MD — \$2,500**

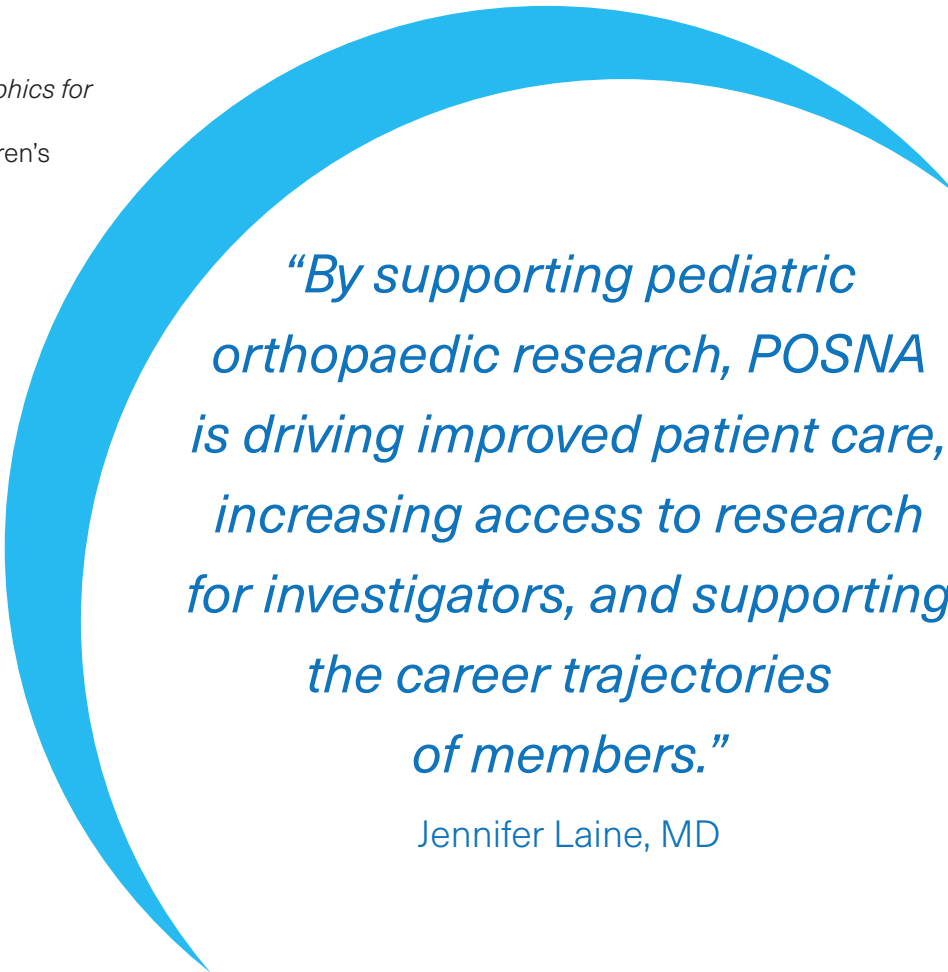
*Use of Fiber Tape for Hemiepiphysiodesis in a Safe, Cost-Effective Manner*

Stony Brook University, Stony Brook, NY

**Mara Karamitopoulos, MD — \$2,500**

**(Funded, in part by, Novadip and Washington University St. Louis)**

*Community-based Peer Support for Families of Children with CP*  
New York University Grossman School of Medicine,  
New York, NY



*“By supporting pediatric orthopaedic research, POSNA is driving improved patient care, increasing access to research for investigators, and supporting the career trajectories of members.”*

Jennifer Laine, MD

# 2024 RESEARCH GRANT WINNERS

## ANGELA S.M. KUO MEMORIAL AWARD

**Hiroko Matsumoto, PhD — \$40,000**

*Impact of SMN2 Copy Number on Musculoskeletal Pathoanatomy in SMA Children*

Boston Children's Hospital, Boston, MA

## ARTHUR H. HUENE MEMORIAL AWARD

**Matthew Halanski, MD — \$30,000**

*Decreasing the Morbidity of Neuromuscular Hip Treatment*

Phoenix Children's Hospital, Phoenix, AZ

## ST. GILES YOUNG INVESTIGATOR AWARD

**Brendan Williams, MD — \$30,000**

*Development of A Trochlear Dysplasia Porcine Model - A Pilot Study*

The Children's Hospital of Philadelphia, Philadelphia, PA

## POSNA Research Grants (2)

- **Nina Lightdale-Miric, MD — \$30,000**  
*Evaluating Adaptive Rock Climbing on Children with Upper Limb Differences*  
Children's Hospital Los Angeles, Los Angeles, CA
- **Todd Milbrandt, MD — \$15,000**  
*Development of AI Tool to Predict the Need for MRI in Scoliosis*  
Mayo Clinic, Rochester, Rochester, MN

## DIRECTED RESEARCH GRANT

**Michelle Marks, PT — \$50,000**

*Post-op Lumbar Spine Motion in AIS: VBT vs PSF*  
Setting Scoliosis Straight Foundation, El Cajon, CA

## POSNA Registry Grant (3-year grant)

- **Brian Haus, MD — \$150,000 total (Year 1 of 3 \$50,000)**  
*Registry of Arthroscopy for Meniscal Pediatric Pathology (RAMPP)*  
The Regents of the University of California, University of California, Davis, Davis, CA
- **Anthony Philip Cooper, FRCS, MBChB — \$148,900 total (Year 3 of 3 \$49,900)**  
*International Limb Differences Registry*  
University of British Columbia, Vancouver, BC, Canada

## ROSHEN N. IRANI RESEARCH GRANT

**Neeraj Patel, MD — \$20,000**

*RED KARD: Reducing Disparities in Knee Arthroscopy for Adolescents*

Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL

## ROSHEN N. IRANI RESEARCH TRAINING GRANT (2)

- **Sarah Bradley — \$9,969**  
*Does Surgeon Gender and Size Affect Muscle Exertion During Spine Surgery?*  
Medical University of South Carolina, Charleston, SC
- **Stefano Cardin, MD — \$9,800**  
*Significance of Rotational Malreduction in Supracondylar Humerus Fractures*  
The Children's Hospital of Philadelphia, Philadelphia, PA

## QSVI GRANT

**Amanda Whitaker, MD — \$25,000**

*Decreasing Opioid Exposure and Access in Children*

The Regents of the University of California, University of California, Davis, Davis, CA





# POSNA MEMBERSHIP INFORMATION

The Pediatric Orthopaedic Society of North America (POSNA) is a not-for-profit professional organization of over 1,500 surgeons, physicians, and allied health members passionately dedicated to advancing musculoskeletal care for children and adolescents through education, research, and quality care.

## MISSION

To advance pediatric orthopaedics by promoting education, research, and quality care.

## VISION

A world with optimal musculoskeletal health for all children.

## FOLLOW US



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## MEMBER BENEFITS

POSNA members benefit from a robust and diverse array of resources that advance and fulfill the society's commitment to education, research, advocacy, and outreach. There are excellent opportunities to forge enduring professional relationships and mentorship. Many members utilize the POSNA platform and its collegial network to develop innovative multi-institution and multi-national programs.

With a culture that is committed to embracing diversity, inclusion, and equity for POSNA members, we offer unparalleled access for all to the following range of benefits:

## EDUCATION

- Reduced Registration Fees:  
POSNA Annual Meeting  
IPOS® (International Pediatric Orthopaedic Symposium)
- Member publishing rates in the Journal of the Pediatric Society of North America (JPOSNA®)
- Reduced subscription rate to the Journal of Pediatric Orthopaedics
- POSNAcademy – Online Educational Portal:  
Webinars, Podcasts, Tutorials
- POSNA Study Guide
- Traveling Fellowship Program
- The Resident Review Blog

## RESEARCH

- Grant Support for Member Research
- Research Awards

## SPECIALTY COMMITTEES

- Evidence Based Medicine
- Pediatric Orthopaedic Global Outreach (POGO)
- Patient Education
- Quality, Safety, Value Initiative (QSVI)
- POSNA Safe Surgery Program (PSSP)

Become a POSNA  
Member and Advance  
Your Pediatric  
Orthopaedic Career!

Applications for the 2026  
membership cycle open in  
June 2025 at POSNA.org.





## LANGUAGE

English is the official language of the 2025 POSNA Annual Meeting.

## NO SMOKING POLICY

Smoking is not permitted during any meeting or event.

## EVENT CANCELLATION

Due to circumstances beyond our control, the Pediatric Orthopaedic Society of North America may elect to cancel the Annual Meeting. These circumstances may include, but are not limited to, disaster, severe weather, civil commotion, pandemics, or government laws or regulations. In the event of such cancellation, all Annual Meeting registrants will be notified by email at the address noted in the POSNA database, and registration fees will be refunded in full. Other costs incurred by the registrant, such as airline or hotel penalties, are the responsibility of the registrant.

## DISCLAIMER

The material presented at the Annual Meeting has been made available by the Pediatric Orthopaedic Society of North America for educational purposes only. The material is not intended to represent the only, nor necessarily best, method or procedure appropriate for the medical situations discussed but rather is intended to present an approach, view, statement, or opinion of the faculty which may be helpful to others who face similar situations. POSNA disclaims all liability for injury or other damages resulting to any individual attending the Annual Meeting and for all claims which may arise out of the use of the techniques demonstrated therein by such individuals, whether these claims shall be asserted by the physician or any other person.

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POSNA will not be held liable for personal injuries or for loss or damage to property incurred by participants or guests at the Annual Meeting, including those participating in social events. Participants and guests are encouraged to take out insurance to cover losses incurred in the event of cancellation, medical expenses, or damage to or loss of personal effects when traveling outside their own country. POSNA cannot be held liable for any hindrance or disruption of the Annual Meeting arising from natural, political, social, or economic events, or other unforeseen incidents beyond its control. Registration of a participant implies acceptance of this condition.

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## NO CAMERAS OR VIDEO CAMERAS

No cameras or video recorders are allowed in any of the sessions or meeting rooms.

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