

# IPOS<sup>®</sup>

International Pediatric Orthopaedic Symposium

December 3-7, 2024 | Orlando, FL

Director: Derek Kelly, MD

Final Program *Sponsored by Medtronic*

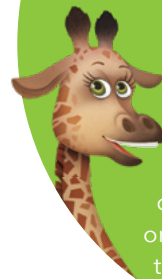


**POSNA**  
PEDIATRIC ORTHOPAEDIC SOCIETY  
OF NORTH AMERICA



# Medtronic

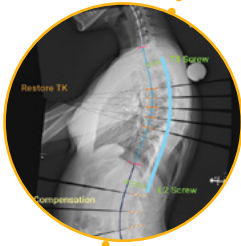
## Leading the way in pediatric patient-specific spine solutions



**Josephine™**  
the giraffe is our ambassador for education to children with early onset scoliosis and their families.



**CD Horizon™ ModuLeX™ spinal system**, building on 40 years of patient history using **CD Horizon™ system** technology.



**UNiD™ ASI** is a longitudinal data collection platform that leverages artificial intelligence and patient specific implants to support planning, execution, and analysis of alignment goals. UNiD™ ASI is FDA cleared for use with CD Horizon™ Solera™ and CD Horizon™ ModuLeX™ 5.5/6.0 spinal systems.



**LigaPASS™ 2.0 system** is designed to help achieve a well-balanced spine in both coronal and sagittal planes when screws, hooks, or wires cannot be placed and axial derotation and reduction are both desired.



**Mazor™ robotic guidance platform** is a **powerful surgical solution** featuring planning tools that enable 3-D construct design and robotic surgical execution for a seamless OR experience.

See the device manual for detailed information regarding the instructions for use, indications, contraindications, warnings, precautions, and potential adverse events. For further information, contact your local Medtronic representative and/or consult the Medtronic website at [medtronic.eu](http://medtronic.eu). An electronic version of the package insert may be found at [www.medtronic.com/manuals](http://www.medtronic.com/manuals) and [www.medtronic.com/UNiD](http://www.medtronic.com/UNiD).

The commercial name of Mazor™ is Mazor X Stealth™ Edition.

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20<sup>th</sup> Annual IPOS®  
**ACKNOWLEDGMENTS**

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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Stanford Medicine Children's Health  
University of Pittsburgh  
Washington University St. Louis

\* Provided an educational grant for IPOS®

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### Explore All Areas of Pediatric Orthopaedics

Immerse yourself in this exciting and interactive four-day program alongside hundreds of pediatric orthopaedic professionals from around the world. Discover new insights and technology and learn how to integrate best practices and new techniques into your care of children and adolescents. From fundamental fracture care to advanced surgical reconstruction, our world-renowned faculty share their expertise in every subspecialty field of pediatric orthopaedics.

### Learning Objectives

- Describe foundational aspects of pediatric orthopaedic principles and techniques
- Analyze and incorporate innovations and advances in pediatric orthopaedic surgery when applicable
- Identify potential for and apply improvements to your practice and treatment/outcomes optimization plans
- Practice hands-on techniques for a wide variety of procedures to improve performance
- Develop a growth mindset, soft skills, and emotional intelligence for practice success

## Host a POSNA Webinar!

POSNA is now accepting applications for 2025 webinars. Use the QR code to submit your webinar application TODAY!



## Residents and Fellows: Just for you!

### Tuesday

**Case Competition & Trivia:** Hear the faculty discuss your cases and put your knowledge to the test during the Arabella Leet Residents & Fellows Forum! The fun begins at 3:00 PM.

**Career Planning and Professional Development:** Get perspectives and advice on handling what you do not find in textbooks.



### Thursday

**Breakfast with Faculty:** This is a unique, direct-access opportunity with leaders in the field to feed your mind, ask questions, and seek professional guidance on Thursday morning over breakfast from 7:00 AM–8:00 AM.

**Top Gun:** The 12th annual surgical skills competition allows you to showcase your maverick skill set (by invitation only).

### Wednesday, Thursday, and Friday

**Lunchtime Career Development:** Join IPOS® faculty during the last 30 minutes of lunch for case review and discussion in the IPOS® Case Theater located in the Exhibit Hall.

## Resident Review

Cutting edge orthopaedic information enhancing resident education brought to you by POSNA members:

- OITE review & prep questions
- Must read articles
- Interviews with pediatric orthopaedic experts
- Webinars
- And more!



**Peds Ortho**  
Brought to you by POSNA

**Peds Ortho, the official  
POSNA podcast**  
Brought to you by POSNA

Monthly episodes from hosts Carter Clement, MD, MBA; Josh Holt, MD; and Julia Sanders, MD, discussing pediatric orthopaedic surgery content, ranging from new literature to coverage of POSNA Annual Meetings and more!

**Live episode recordings  
on-site at IPOS®!**

# Leading Orthopaedics Since 1909

Campbell Clinic pediatric orthopaedic team



Back row from left to right:

**William C. Warner, M.D.**

**Derek M. Kelly, M.D.** (Current IPOS<sup>®</sup> Director)

**Keith J. Orland, M.D.**

**Jeffrey R. Sawyer, M.D.** (Past President of POSNA)

**Stephanie Chen, M.D.**

Front row from left to right:

**Benjamin W. Sheffer, M.D.** | **David D. Spence, M.D.**



**Derek Kelly, MD**  
**Director**

“The faculty members are the heart and soul of IPOS®. They are world-leading experts in their subspecialties, enthusiastic educators, approachable mentors, and inspirational leaders.”

**Domestic Faculty**

- Lindsay Andras, MD
- Alexandre Arkader, MD
- Donald Bae, MD \***
- Andrea Bauer, MD
- Jennifer Bauer, MD, MS
- Jennifer Beck, MD
- Maryse Bouchard, MD, MSc \***
- Jaysson Brooks, MD
- Robert Cho, MD \***
- Jaime Rice Denning, MD
- Craig Ebersson, MD, FAOA
- Eric Edmonds, MD
- Ron El-Hawary, MD, MSc, FRCS(C) \***
- Henry Ellis, MD
- Nicholas Fletcher, MD \***
- John (Jack) Flynn, MD \***
- Michael Glotzbecker, MD
- Christine Ho, MD
- Sandra Jarvis-Selinger, PhD
- Simon Kelley, MBChB, PhD, FRCS
- Derek Kelly, MD \***
- Philip McClure, MD \***
- Jennifer Laine, MD \***
- Craig Louer Jr., MD
- John Lovejoy III, MD
- Scott Luhmann, MD \***
- Jeff Martus, MD, MS \***
- James McCarthy, MD
- Thomas McPartland, MD
- Todd Milbrandt, MD \***
- Firoz Miyanji, MD, FRCS
- Kishore Mulpuri, MBBS, MS, MHSc, FRCS
- L. Reid Nichols, MD
- Kenneth Noonan, MD
- David Podeszwa, MD
- Anthony Riccio, MD
- Wudbhav (Woody) Sankar, MD \***
- Jeffrey Sawyer, MD
- Jonathan Schoenecker, MD, PhD \***
- Suken Shah, MD \***
- Kevin Shea, MD

Benjamin Shore, MD, MPH, FRCS

**M. Wade Shrader, MD \***

Daniel Sucato, MD, MS

Vishwas Talwalkar, MD

Mihir Thacker, MD

Rachel Thompson, MD

V. Salil Upasani, MD

**Michael Vitale, MD, MPH \***

**Lindley Wall, MD, MSc \***

Ira Zaltz, MD

**International Faculty**

Franck Accadbled, MD, PhD

Prof. Thomas Dreher

Deborah Eastwood, FRCS

Sebastian Farr, MD

**Javier Masquijo, MD \***

Manoj Ramachandran, BSc(Hons), MBBS(Hons),

MRCS(Eng), FRCS(Tr&Orth)

**Instructors**

Jason Howard, MD, FRCS

Vedant Kulkarni, MD

Scott McKay, MD

Crystal Perkins, MD

Matthew Schmitz, MD

**Advanced Practice Provider (APP) Faculty**

John Ansiaux, PA-C

Colleen Ditro, DNP, CPNP

Sarah Gilday, PA-C

Sheila Marceron, DNP

Morgan McCarver, PA-C

Amber Mizerik, PA-C

Kevin Moore, PA-C

**Valerie Parrish, PA-C \***









Christopher Tremonti, PA-C

**Nicole Tweedy, DNP-PNP \***


Paige Wheaton, PA-C

**\*2024 Advisory Board**

## Topics

-  Advanced Practice Providers
-  Essentials of Pediatric Orthopaedics
-  Foot
-  General Pediatric Orthopaedics/Trauma
-  Hand & Upper Extremity
-  Hip
-  Lower Extremity/Deformity
-  Mid-Career
-  Neuromuscular & Cerebral Palsy
-  Spine
-  Sports

## Wednesday, December 4



- 7:00 AM–5:00 PM Registration
- 
- 7:00 AM–8:00 AM Breakfast and Exhibits  
**Pacifica 6-7**
- 
- 8:05 AM–10:05 AM **General Session 1:**  
**Oceana Grand 6-7** Mastering Call in Pediatric Orthopaedics  

- 
- 10:10 AM–10:30 AM Break and Exhibits  
**Pacifica 6-7**
- 
- 10:35 AM–11:35 AM **Industry Spotlight**  
**Pacifica 3-5** **Sessions 1\*: BioMarin Pharmaceuticals, Inc.**
- 
- 10:35 AM–11:35 AM **Industry Spotlight**  
**Pacifica 8-10** **Sessions 1\*: Stryker**
- 
- 10:35 AM–11:35 AM **Industry Spotlight**  
**Banda Sea** **Sessions 1\*: Johnson & Johnson MedTech**

## Tuesday, December 3

1:00 PM–6:30 PM Registration

## Residents and Fellows

- 3:00 PM–4:45 PM Arabella Leet Forum \*  
**Oceana Grand 6-7** (Sponsored by Shiners Children's™)
- 
- 4:55 PM–5:55 PM Career Planning and Professional Development \*  
**Oceana Grand 6-7** (Sponsored by Medtronic)
- 
- 6:00 PM–6:15 PM Mingle with Medtronic \*  
**Oceana Grand 6-7**
- 
- 6:30 PM–7:45 PM **OrthoPediatrics Pre-Course**  
**Oceana Grand 2-5** Innovation - Bringing Creative Solutions from Ideas to Reality \*
- 
- 7:50 PM–9:00 PM Reception Sponsored by  
**Java Sea** OrthoPediatrics

- 10:35 AM–11:35 AM **Industry Spotlight**  
**Timor Sea** **Sessions 1\*: Arthrex**
- 
- 10:35 AM–11:35 AM **Industry Spotlight**  
**Coral Sea** **Sessions 1\*: Orthofix**
- 
- 10:35 AM–11:35 AM **Industry Spotlight**  
**Java Sea** **Sessions 1\*: OrthoPediatrics**
- 
- 11:40 AM–12:40 PM Lunch and Exhibits  
**Pacifica 6-7**
- 
- 12:10 PM–12:40 PM Lunchtime Career Development  
**Pacifica 6-7**
- 
- 12:45 PM–2:00 PM **CME Breakout 1:**  
**Oceana Grand 6-7** Essentials of Pediatrics I  

- 
- 12:45 PM–2:00 PM **CME Breakout 1: We've Got to Hand It to You: Upper Limb Conditions That Will Show up in the Clinic (Case-Based Discussion)**  
**Pacifica 8-10**  


\* Indicates Non-CME Session



12:45 PM–2:00 PM  
Banda Sea



**CME Breakout 1:**  
Ponseti Casting  
(Hands-on)

12:45 PM–2:00 PM  
Pacifica 3-5



**CME Breakout 1:**  
Osteomyelitis and  
Bone Tumor

12:45 PM–2:00 PM  
Timor Sea



**CME Breakout 1:**  
Mastering MPFL  
Reconstruction: A  
Hands-on Session

12:45 PM–2:00 PM  
Oceana Grand 2-5



**APP Breakout 1:**  
Backbone Breakthroughs:  
Advancing Pediatric Spine

2:05 PM–2:25 PM  
Pacifica 6-7

Break and Exhibits

2:30 PM–4:00 PM  
Oceana Grand 2-5



**Concurrent Session 1:**  
Twist and Shout:  
Unraveling the Rotational  
Mysteries of the Hip

2:30 PM–4:00 PM  
Oceana Grand 6-7



**Concurrent Session 1:**  
Total Patient Care: The  
Complex Neuromuscular  
Spine

2:30 PM–3:30 PM  
South China Sea



**Ponseti on the Go**

4:05 PM–5:05 PM  
Pacifica 3-5

**Industry Spotlight  
Sessions 2\*: Johnson &  
Johnson MedTech**

10:35 AM–11:35 AM  
Pacifica 8-10

**Industry Spotlight  
Sessions 2\*: Stryker**

10:35 AM–11:35 AM  
Timor Sea

**Industry Spotlight  
Sessions 2\*: Globus  
Medical**

10:35 AM–11:35 AM  
Coral Sea

**Industry Spotlight  
Sessions 2\*:  
OrthoPediatrics**

10:35 AM–11:35 AM  
Java Sea

**Industry Spotlight  
Sessions 2\*:  
OrthoPediatrics**

5:10 PM–6:10 PM  
Pacifica 6-7

Happy Hour in the Hall

## Thursday, December 5

7:00 AM–3:00 PM

Registration

7:00 AM–8:00 AM  
Pacifica 6-7

Breakfast and Exhibits  
with Faculty

8:05 AM–10:05 AM  
Oceana Grand 6-7



**General Session 2:**  
Multidisciplinary,  
Complex Problems in  
Children–Spina Bifida,  
Amputations, and Under-  
Served and Under-Reso

10:10 AM–10:30 AM  
Pacifica 6-7

Break and Exhibits

10:35 AM–11:35 AM  
Pacifica 3-5

**Industry Spotlight  
Sessions 3\*: Medtronic**

10:35 AM–11:35 AM  
Pacifica 8-10

**Industry Spotlight  
Sessions 3\*: Johnson &  
Johnson MedTech**

10:35 AM–11:35 AM  
Banda Sea 2

**Industry Spotlight  
Sessions 3\*: Pacira  
BioSciences**

10:35 AM–11:35 AM  
Timor Sea 2

**Industry Spotlight  
Sessions 3\*: Orthofix**

10:35 AM–11:35 AM  
Coral Sea

**Industry Spotlight  
Sessions 3\*: Highridge  
Medical**

10:35 AM–11:35 AM  
Java Sea

**Industry Spotlight  
Sessions 3\*:  
OrthoPediatrics**

11:40 AM–12:40 PM  
Pacifica 6-7

Lunch and Exhibits

12:10 PM–12:40 PM  
Pacifica 6-7

Lunchtime Career  
Development

12:45 PM–2:00 PM <b>Oceana Grand 2-5</b>	<b>CME Breakout 2:</b> Essentials of Pediatric Orthopaedics II
12:45 PM–2:00 PM <b>Timor Sea</b>	<b>CME Breakout 2:</b> Pelvic Osteotomies Part One: Salter, Pemberton, Dega, San Diego (Hands-on)
12:45 PM–2:00 PM <b>Oceana Grand 6-7</b>	<b>CME Breakout 2:</b> Workup and Treatment Decision-Making for AIS
12:45 PM–2:00 PM <b>Banda Sea</b>	<b>CME Breakout 2:</b> Congenital Vertical Talus: Topic Update and Hands-on Casting
12:45 PM–2:00 PM <b>Coral Sea</b>	<b>CME Breakout 2:</b> Unlocking the Congenital Knee
2:05 PM–2:25 PM <b>Pacifica 6-7</b>	Break and Exhibits
2:30 PM–4:00 PM <b>Oceana Grand 6-7</b>	<b>Concurrent Session 2:</b> Why Can Flatfeet Be So Complicated?!
2:30 PM–4:00 PM <b>Pacifica 3-5</b>	<b>Concurrent Session 2:</b> Cool Strategies for Hot and Cold Pediatric Upper Extremity Trauma
2:30 PM–4:00 PM <b>Oceana Grand 2-5</b>	<b>APP Breakout 2:</b> Pediatric Trauma: Tackling Challenges and Finding Strength
2:30 PM–3:30 PM <b>South China Sea</b>	<b>Pavlik on the Go</b>
2:30 PM–3:30 PM <b>South China Sea</b>	<b>Halo on the Go</b>

## Friday, December 6


7:00 AM–2:30 PM	Registration
7:00 AM–8:00 AM <b>Pacifica 6-7</b>	Breakfast and Exhibits
8:05 AM–9:20 AM <b>Oceana Grand 6-7</b>	<b>CME Breakout 3:</b> Current Surgical Controversies in AIS
8:05 AM–9:20 AM <b>Timor Sea</b>	<b>CME Breakout 3:</b> Pelvic Osteotomies Part Two: Triple, PAO (Hands-on)
8:05 AM–9:20 AM <b>Banda Sea</b>	<b>CME Breakout 3:</b> Pinning an Elbow (Hands-on)
8:05 AM–9:20 AM <b>Coral Sea</b>	<b>CME Breakout 3:</b> Neuromuscular Gait Analysis for Non-CP Conditions
8:05 AM–9:20 AM <b>Oceana Grand 2-5</b>	<b>APP Breakout 3:</b> Hot Topics in Orthopaedics: Innovation and Pre-Operative Trends
8:05 AM–11:20 AM <b>Pacifica 3-5</b>	<b>Practicing PediPod</b>
9:25 AM–9:45 AM <b>Pacifica 6-7</b>	Break and Exhibits
9:50 AM–11:20 AM <b>Oceana Grand 2-5</b>	<b>Concurrent Session 3:</b> Pediatric Sports Controversies: If It's Your Child, What Do You Do?
9:50 AM–11:20 AM <b>Oceana Grand 6-7</b>	<b>Concurrent Session 3:</b> Basics of Lower Extremity Deformity Analysis

\* Indicates Non-CME Session

# 20<sup>th</sup> Annual IPOS® SCHEDULE AT A GLANCE

11:25 PM–12:25 PM Lunch and Exhibits  
**Pacifica 6-7**

11:55 PM–12:25 PM Lunchtime Career Development  
**Pacifica 6-7**

12:30 PM–2:50 PM **General Session 3:**  
Author's Preferred Techniques  
**Pacifica 6-7** 

2:55 PM–3:30 PM Cheers to 20 Years of IPOS® (in the Hall)  
**Oceana Grand 6-7**





## Saturday, December 7


7:00 AM–8:00 AM Breakfast  
**Pacifica 6-7**

7:30 AM–9:35 AM **Practicing PediPod**  
**Pacifica 3-5** 

8:05 AM–9:35 AM **Concurrent Session 4:**  
CP Hip Surveillance and CP-Like Conditions  
**Coral Sea** 

9:40 AM–10:55 AM **CME Breakout 4:**  
Essentials of Pediatric Orthopaedics III  
**Pacifica 3-5** 

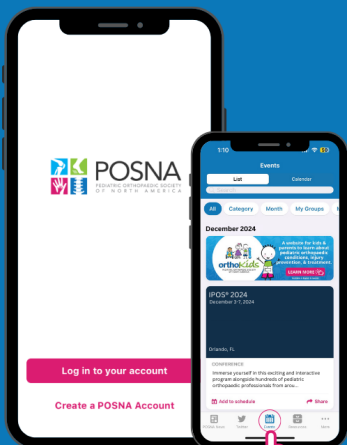
9:40 AM–10:55 AM **CME Breakout 4:**  
Foundations in Hip Dysplasia: Get to Know the Villains  
**Coral Sea** 

9:40 AM–10:55 AM **CME Breakout 4:**  
Coronal and Transverse Malalignment in Pediatric Patellofemoral Instability  
**Java Sea** 

11:00 AM Farewell Grab 'n Go  
**Pre-Function West**

# POSNA APP

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Locate the Events tab to access the 2024 IPOS® Meeting





central texas  
PEDIATRIC ORTHOPEDICS

# A TRADITION OF PEDIATRIC ORTHOPEDIC CARE

**Central Texas Pediatric Orthopedics** has served the Austin community with comprehensive orthopedic care for pediatric and adolescent patients for more than 30 years.

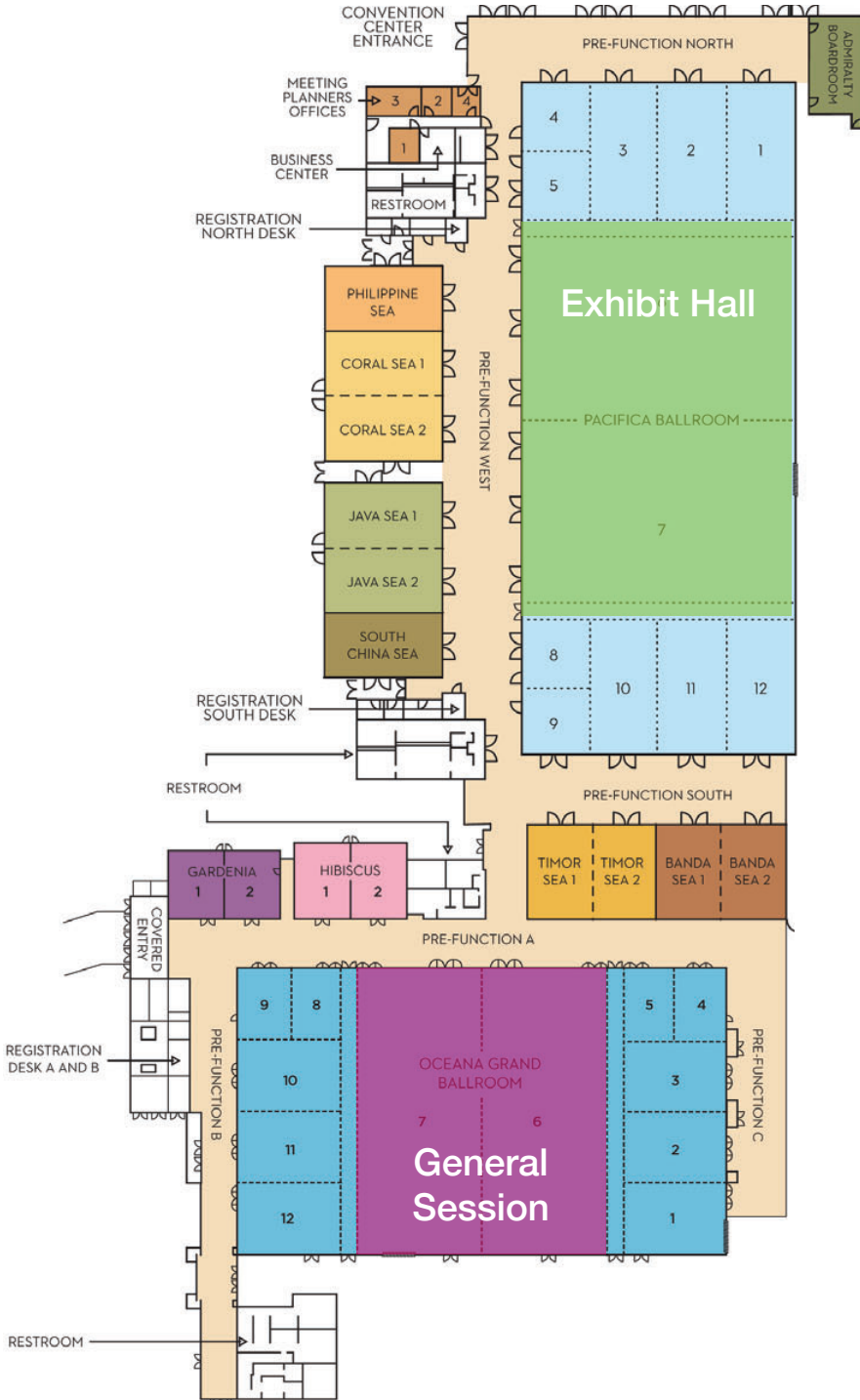


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**Hilton Gottschalk, MD** (Hand & Upper Extremity), **Catherine Sargent, MD** (Sports Medicine), **Brian Kaufman, MD** (Spine & Neuromuscular), **Matt Ellington, MD** (Sports Medicine), **Kirsten Ross, MD** (Spine & Neuromuscular), **Jay Shapiro, MD** (Spine), **Kathleen Rickert, MD** (Limb Lengthening, Foot & Ankle), **John Heydemann, MD** (Neuromuscular, Foot & Ankle),

20<sup>th</sup> Annual IPOS®  
**LOEWS MEETING SPACE**





## Advanced Practice Providers

### Wednesday, December 4

12:45 PM–2:00 PM

**APP Breakout 1:** Backbone Breakthroughs:  
Advancing Pediatric Spine Care

### Thursday, December 5

2:30 PM–4:00 PM

**APP Breakout 2:** Pediatric Trauma: Tackling  
Challenges and Finding Strength

### Friday, December 6

8:05 AM–9:20 AM

**APP Breakout 3:** Hot Topics in Orthopedics:  
Innovation and Pre-Operative Trends



## Essentials of Pediatric Orthopaedics

### Wednesday, December 4

12:45 PM–2:00 PM

**CME Breakout 1:** Essentials of Pediatric  
Orthopaedics I

### Thursday, December 5

12:45 PM–2:00 PM

**CME Breakout 2:** Essentials of Pediatric  
Orthopaedics II

### Saturday, December 7

9:40 AM–10:55 AM

**CME Breakout 4:** Essentials of Pediatric  
Orthopaedics III



## Foot

### Wednesday, December 4

12:45 PM–2:00 PM

**CME Breakout 1:** Ponseti Casting (Hands-on)

### Wednesday, December 4

2:30 PM–3:30 PM

**Ponseti on the Go**

### Thursday, December 5

12:45 PM–2:00 PM

**CME Breakout 2:** Congenital Vertical Talus:  
Topic Update and Hands-on Casting

### Thursday, December 5

2:30 PM–4:00 PM

**Concurrent Session 2:** Why Can Flatfeet Be So  
Complicated?!



## General Pediatric Orthopaedics/Trauma

### Wednesday, December 4

8:05 AM–10:05 AM

**General Session 1:** Mastering Call in Pediatric  
Orthopaedics

### Wednesday, December 4

12:45 PM–2:00 PM

**CME Breakout 1:** Osteomyelitis and Bone Tumor

### Thursday, December 5

8:05 AM–10:05 AM

**General Session 2:** Multidisciplinary, Complex  
Problems in Children—Spina Bifida, Amputations,  
and Under-Served and Under-Resourced

### Friday, December 6

12:30 PM–2:50 PM

**General Session 3:** Author's Preferred  
Techniques



## Hand & Upper Extremity

### Wednesday, December 4

12:45 PM–2:00 PM

**CME Breakout 1:** We've Got to Hand It to You:  
Upper Limb Conditions That Will Show up in the  
Clinic (Case-Based Discussion)

### Thursday, December 5

2:30 PM–4:00 PM

**Concurrent Session 2:** Cool Strategies for Hot  
and Cold Pediatric Upper Extremity Trauma

### Friday, December 6

8:05 AM–9:20 AM

**CME Breakout 3:** Pinning an Elbow (Hands-on)



## Hip

### Wednesday, December 4

2:30 PM–4:00 PM

**Concurrent Session 1:** Twist and Shout:  
Unraveling the Rotational Mysteries of the Hip

### Thursday, December 5

12:45 PM–2:00 PM

**CME Breakout 2:** Pelvic Osteotomies Part One:  
Salter, Pemberton, Dega, San Diego (Hands-on)

### Thursday, December 5

2:30 PM–3:30 PM

**Pavlik on the Go**

### Friday, December 6

8:05 AM–9:20 AM

**CME Breakout 3:** Pelvic Osteotomies Part Two:  
Triple, PAO (Hands-on)

### Saturday, December 7

9:40 AM–10:55 AM

**CME Breakout 4:** Foundations in Hip Dysplasia:  
Get to Know the Villains



## Neuromuscular & Cerebral Palsy

### Wednesday, December 4

2:30 PM–4:00 PM

**Concurrent Session 1:** Total Patient Care: The  
Complex Neuromuscular Spine

### Friday, December 6

8:05 AM–9:20 AM

**CME Breakout 3:** Neuromuscular Gait Analysis  
for Non-CP Conditions

### Saturday, December 7

8:05 AM–9:35 AM

**Concurrent Session 4:** CP Hip Surveillance and  
CP-Like Conditions



## Spine

### Thursday, December 5

12:45 PM–2:00 PM

**CME Breakout 2:** Workup and Treatment  
Decision-Making for AIS

### Thursday, December 5

2:30 PM–3:30 PM

**Halo on the Go**

### Friday, December 6

8:05 AM–9:20 AM

**CME Breakout 3:** Current Surgical Controversies  
in AIS



## Sports

### Wednesday, December 4

12:45 PM–2:00 PM

**CME Breakout 1:** Mastering MPFL  
Reconstruction: A Hands-on Session

### Friday, December 6

9:50 AM–11:20 AM

**Concurrent Session 3:** Pediatric Sports  
Controversies: If It's Your Child, What Do You Do?

### Saturday, December 7

9:40 AM–10:55 AM

**CME Breakout 4:** Coronal and Transverse  
Malalignment in Pediatric Patellofemoral Instability



## Lower Extremity/Deformity

### Thursday, December 5

12:45 PM–2:00 PM

**CME Breakout 2:** Unlocking the Congenital Knee

### Friday, December 6

9:50 AM–11:20 AM

**Concurrent Session 3:** Basics of Lower  
Extremity Deformity Analysis



## Mid-Career

### Friday, December 6

8:05 AM–11:20 AM

**Practicing PediPod**

### Saturday, December 7

7:30 AM–9:35 AM

**Practicing PediPod**

**Tuesday, December 3**

**3:00 PM–4:45 PM**

**Oceana Grand 6-7**

**Arabella Leet Residents & Fellows Forum**

Sponsored by Shriners Children's™

**Chair: Jennifer Laine, MD**

Panelists: Jaysson Brooks, MD; Jaime Rice Denning, MD; Thomas McPartland, MD; Jonathan Schoenecker, MD, PhD; Lindley Wall, MD, MSc

This engaging and educational forum is in honor and memory of Dr. Arabella Leet's career and contributions. Dr. Leet improved the lives of children through personal and systemic efforts to provide high-quality and safe pediatric musculoskeletal care. This Forum, sponsored by Shriners Children's™, is an opportunity for all to attend an exciting case competition. The top eight cases are presented by this year's scholarship winners with stimulating discussion from IPOS® faculty and instructors. Attend to demonstrate your trivia knowledge for prizes and fun!



3:00 PM–3:25 PM

**Welcome & Introduction**

3:26 PM–4:45 PM

**Case Presentations & Trivia Competition**



**4:55 PM–5:55 PM**

**Oceana Grand 6-7**

**Career Planning and Professional Development**



Sponsored by Medtronic

**Chair: Jennifer Laine, MD**

This high-yield session is designed for orthopaedic trainees to learn key strategies to embark successfully on the path ahead of them. Leaders within POSNA will engage the audience with pearls on how to find a job and build a practice. They will discuss methods for finding time for discovery and opportunities for service. They will offer approaches for continued professional development and staying balanced with life inside and outside of the hospital. The presentations will be followed by a robust question and answer session. This is a tremendous opportunity to ask questions of these remarkable pediatric orthopaedic leaders!

4:55 PM–4:59 PM

**Welcome & Introduction**

Angela Bizzarri, Medtronic Senior Global Physician Relations Program Manager  
CST Strategic Partnerships

5:00 PM–5:06 PM

**How (and When) Do I Find a Job?**

Jeffrey Sawyer, MD

5:07 PM–5:13 PM

**How Do I Build a Busy Practice?**

Lindsay Andras, MD

5:14 PM–5:20 PM

**How Do I Find the Support and Time for Research?**

Henry Ellis, MD

5:21 PM–5:27 PM

**How Do I Continue to Improve Surgically?**

Lindley Wall, MD, MSc



- 5:28 PM–5:34 PM     **How and Why Should I Become Involved in Professional Organizations?**  
Todd Milbrandt, MD
  
- 5:35 PM–5:41 PM     **How Do I Manage Time and Energy – In and Out of the Hospital?**  
Woody Sankar, MD
  
- 5:42 PM–5:55 PM     **Questions and Answers**  
Jennifer Laine, MD  
Jeffrey Sawyer, MD  
Lindsay Andras, MD  
Henry Ellis, MD  
Lindley Wall, MD, MSc  
Todd Milbrandt, MD  
Woody Sankar, MD  
Angela Bizzarri, Medtronic
  
- 6:00 PM–6:15 PM     **Mingle with Medtronic**



**6:30 PM–7:45 PM     Oceana Grand 2-5**

**OrthoPediatrics Pre-Course: Innovation - Bringing Creative Solutions from Ideas to Reality**

**Sponsored by OrthoPediatrics**

During your career, you will have many ideas to improve the way we work, whether this is a better way to fix a fracture, find a pedicle, or some other way to help us help our patients. Innovation is a fascinating process and has brought us technology such as MRI, locking screws, and physéal tethering, among many other improvements we now take for granted. While we think the process of innovation involves a eureka moment, more commonly it involves a disciplined search for a solution to a problem. We will discuss this process of innovation: needs finding, brainstorming and iteration, and where you go from there. We will introduce a few of the modern innovations and, together with the audience, discuss problems we would all like solved.

- Peter Stevens, MD**  
Emeritus Professor, Department of Orthopedics, University of Utah
  
- Scott Lasater, MS**  
Vice President of Innovation and Performance Improvement, OrthoPediatrics President, Lasater Institute
  
- Fady Rayes, MS**  
Vice President of Product Development, Pega Medical (Now OrthoPediatrics)
  
- Scott Hoffinger, MD, MS**  
Medical Director, OrthoPediatrics

7:50 PM–9:00 PM     **Reception Sponsored by OrthoPediatrics**  
**Java Sea**

## Wednesday DAILY SCHEDULE

### Wednesday, December 4

7:00 AM–8:00 AM **Breakfast and Exhibits**  
**Pacifica 6-7**

### GENERAL SESSION 1

8:05 AM–10:05 AM **Oceana Grand 6-7**

#### Mastering Call in Pediatric Orthopaedics

**Moderator: Jonathan Schoenecker, MD, PhD**  
**eModerator: Nicholas Fletcher, MD**



Scan to compete!

You won't want to miss the Mastering Call in Pediatric Orthopaedics session. This year's course will provide a comprehensive overview of what it takes to care for pediatric orthopaedic injuries, including critical concepts such as the role of the periosteum in pediatric fractures and the pathophysiology behind complications such as pulmonary embolus and necrotizing fasciitis. Our course will be structured into three sessions that will cover the basics of the periosteum and how to use it in diagnosing and treating fractures, managing injuries to vital structures around fractures, and understanding the acute phase response in both severely injured and infected patients. We will be using interactive technology that allows learners to participate throughout the session by answering questions on their mobile devices, making this an engaging and immersive learning experience.

As experienced educators in pediatric orthopedics, we are passionate about delivering a high-quality educational experience that will be valuable to your clinical practice. We have received great feedback from previous learners, who have found our content to be relevant, engaging, and useful in their everyday work.

7:45 AM–8:00 AM **Onboarding**

8:00 AM–8:05 AM **Welcome & Introduction**  
Director: Derek Kelly, MD

8:05 AM–8:10 AM **Periosteum: Your Raison D'Étre**  
Jonathan Schoenecker, MD, PhD

8:11 AM–8:15 AM **Introduction to App**  
Moderator: Jonathan Schoenecker, MD, PhD

8:16 AM–8:22 AM **Reduction of Forearm/ Distal Radius: Leverage Periosteum**  
Alexandre Arkader, MD

8:23 AM–8:30 AM **Supracondylar Humerus Fractures: Understanding Bruises and Tears**  
Jennifer Laine, MD

8:31 AM–8:38 AM **Lateral Condyle and Femoral Neck: What if There Isn't Any Periosteum?**  
Nicholas Fletcher, MD

8:39 AM–8:56 AM **Quiz 1/Survey Discussion**  
Alexandre Arkader, MD  
Jennifer Laine, MD  
Nicholas Fletcher, MD

8:57 AM–9:05 AM **Collateral Damage: Nerve and Vessel (SCHFx)—What Keeps You Up at Night?**  
Lindley Wall, MD, MSc

9:06 AM–9:14 AM **Collateral Damage: Physeal Bar (Distal Femur)—The Orthopaedic Annuity**  
Jennifer Bauer, MD

9:15 AM–9:28 AM **Quiz 2/survey Discussion**  
Lindley Wall, MD, MSc  
Jennifer Bauer, MD

9:29 AM–9:37 AM **Collateral Damage: MSOD/Infection**  
Jonathan Schoenecker, MD, PhD

Wednesday  
**DAILY SCHEDULE**

9:38 AM–9:45 AM **Collateral Damage: Infection**  
 Thomas McPartland, MD

9:46 AM–9:50 AM **Final Quiz**  
 Moderator: Jonathan Schoenecker, MD, PhD

9:50 AM–10:05 AM **Review**  
 Moderator: Jonathan Schoenecker, MD, PhD

10:10 AM–10:30 AM **Break and Exhibits**  
**Pacifica 6-7**

10:35 AM–11:35 AM **Industry Spotlight Sessions 1 (non-CME)**  
 See page 26 for details

11:40 AM–12:40 PM **Lunch and Exhibits**  
**Pacifica 6-7**

12:10 PM–12:40 PM **Lunchtime Career Development**  
**Pacifica 6-7**

**CME BREAKOUT 1**



**12:45 PM–2:00 PM Oceana Grand 6-7**

**Essentials of Pediatric Orthopaedics I**

**Moderator: Christine Ho, MD**

This session covers a variety of pediatric orthopaedic topics and is geared toward residents, fellows, and newer advanced practice providers who desire a strong foundational knowledge and strategy to synthesize clinical data into appropriate treatment plans.

12:45 PM–12:50 PM **Common Overuse Injuries in the Young Athlete**  
 Scott McKay, MD

12:51 PM–12:56 PM **Female Athlete Triad: Recognition and Management**  
 Craig Louer Jr., MD

12:57 PM–1:05 PM **Discussion**  
 Scott McKay, MD  
 Craig Louer Jr., MD

1:05 PM–1:10 PM **Infantile DDH: Outpatient Management**  
 Kishore Mulpuri, MBBS, MS, MHSc, FRCSC

1:11 PM–1:16 PM **Perthes Disease: Nonoperative Management**  
 Thomas McPartland, MD

1:17 PM–1:22 PM **FAI: Nonoperative Management**  
 Woody Sankar, MD

1:23 PM–1:31 PM **Discussion**  
 Kishore Mulpuri, MBBS, MS, MHSc, FRCSC  
 Thomas McPartland, MD  
 Woody Sankar, MD

1:32 PM–1:37 PM **Upper Extremity Physeal Fractures**  
 Christine Ho, MD

1:38 PM–1:43 PM **Lower Extremity Physeal Fractures**  
 John Lovejoy III, MD

1:44 PM–1:49 PM **Post-traumatic Growth Arrest: Recognition and Management**  
 Manoj Ramachandran, MD, FRCS (Orth)

1:50 PM–2:00 PM **Discussion**  
 Christine Ho, MD  
 John Lovejoy III, MD  
 Manoj Ramachandran, MD, FRCS (Orth)

**CME BREAKOUT 1**

12:45 PM–2:00 PM

Pacifica 8-10



**We've Got to Hand It to You: Upper Limb Conditions That Will Show up in the Clinic (Case-Based Discussion)**

Come join to understand the treatment of common non-traumatic upper limb conditions we all face!

12:45 PM–12:48 PM **Introduction**  
Donald Bae, MD  
Lindley Wall, MD, MSc

**12:50 PM–1:07 PM Trigger Digits**

**Moderator: Lindley Wall, MD, MSc**

12:50 PM–12:55 PM **Trigger Thumb: When to Operate and Asleep?**  
Andrea Bauer, MD

12:56 PM–1:01 PM **Trigger Fingers: How Much to Do?**  
Sebastian Farr, MD

1:02 PM–1:07 PM **Discussion**  
Lindley Wall, MD, MSc  
Andrea Bauer, MD  
Sebastian Farr, MD

**1:09 PM–1:37 PM Radioulnar Synostosis**

**Moderator: Donald Bae, MD**

1:09 PM–1:14 PM **Diagnosis and Functional Implications**  
Donald Bae, MD

1:15 PM–1:20 PM **Surgical Treatment: Osteoclasts Technique**  
Sebastian Farr, MD

1:21 PM–1:26 PM **Surgical Treatment: Synostosis Osteotomy Technique**  
Andrea Bauer, MD

1:27 PM–1:37 PM **Discussion**  
Donald Bae, MD  
Sebastian Farr, MD  
Andrea Bauer, MD

**1:39 PM–2:00 PM CP Wrist**

**Moderator: Lindley Wall, MD, MSc**

1:39 PM–1:44 PM **Presentation and Assessment of CP Wrist Deformity**  
Donald Bae, MD

1:45 PM–1:50 PM **Treatment Options for Wrist Deformity**  
Sebastian Farr, MD

1:51 PM–2:00 PM **Discussion**  
Lindley Wall, MD, MSc  
Donald Bae, MD  
Sebastian Farr, MD

**CME BREAKOUT 1**

12:45 PM–2:00 PM

Banda Sea



**Ponseti Casting (Hands-on)**

**Moderator: Maryse Bouchard, MD, MSc**

An introduction to the Ponseti method followed by a hands-on Ponseti casting and tenotomy lab with ample opportunity to learn and practice.

12:45 PM–12:40 PM **Clubfoot Ponseti Video-Casting Technique and Principles**  
Derek Kelly, MD

12:41 PM–12:46 PM **5 Things to Do When Faced With a Complex Clubfoot**  
Vishwas Talwalkar, MD

12:47 PM–12:53 PM **5 Things That Can Lead to Pitfalls When Casting Clubfeet**  
Jaime Rice Denning, MD

12:54 PM–12:59 PM **5 Things to Do to Run the Optimal Clubfoot Clinic**  
Anthony Riccio, MD

Wednesday  
**DAILY SCHEDULE**

1:00 PM–1:05 PM **5 Things to Do to Get the Best Results With Foot Abduction Bracing**  
 Kenneth Noonan, MD

1:06 PM–2:00 PM **Hands-on Instruction Hands-on Faculty:**  
 L. Reid Nichols, MD  
 Derek Kelly, MD  
 Vishwas Talwalkar, MD  
 Jaime Rice Denning, MD  
 Anthony Riccio, MD  
 Kenneth Noonan, MD  
 Maryse Bouchard, MD, MSc

12:54 PM–1:00 PM **Osteomyelitis and Septic Arthritis—Strategies to Minimize Need for Reoperation and Considerations When It Is Necessary**  
 Jeffrey Sawyer, MD

1:01 PM–1:07 PM **Osteomyelitis in Pressure Ulcers—The Orthopaedists Role and How to Minimize Recurrence**  
 M. Wade Shrader, MD

1:08 PM–1:16 PM **Discussion**  
 Jonathan Schoenecker, MD, PhD  
 Michael Glotzbecker, MD  
 Jeffrey Sawyer, MD  
 M. Wade Shrader, MD

**CME BREAKOUT 1**

**12:45 PM–2:00 PM Pacifica 3-5**



**Osteomyelitis and Bone Tumor**

**Moderator: Mihir Thacker, MD**  
**Moderator: Alexandre Arkader, MD**

Infections and tumor are common in pediatric orthopaedics. Understanding basic concepts of diagnosis and management can help optimize patient management and outcomes. This session will be divided between how to diagnose and treat infections from simple to complex and some highlights of bone tumors from cysts to malignancies.

12:45 PM–12:47 PM **Introduction**  
 Moderator: Alexandre Arkader, MD

12:38 PM–12:45 PM **Laboratory and Radiographic Evaluation of Musculoskeletal Infection in 2024**  
 Jonathan Schoenecker, MD, PhD

12:46 PM–12:53 PM **Osteomyelitis—Surgical Management Options From Decompression to Masqualet**  
 Michael Glotzbecker, MD

1:17 PM–1:24 PM **Differentiating Between Infection and Tumors—Diagnostic Techniques**  
 Craig Ebersson, MD

1:25 PM–1:32 PM **Surgical Management of Benign Cysts—What to Pick From the Smorgasborg of Bone Grafts**  
 Mihir Thacker, MD

1:33 PM–1:40 PM **Pediatric Bone Malignancy for the General Practitioner—The Eye Sees What the Mind Knows**  
 Alexandre Arkader, MD

1:41 PM–1:48 PM **Leukemia and Lymphoma—How It Presents and How Not to Miss It**  
 Deborah Eastwood, FRCS

1:49 PM–2:00 PM **Discussion**  
 Craig Ebersson, MD  
 Mihir Thacker, MD  
 Alexandre Arkader, MD  
 Deborah Eastwood, FRCS

Wednesday  
**DAILY SCHEDULE**

## CME BREAKOUT 1

12:45 PM–2:00 PM

Timor Sea



### Mastering MPFL Reconstruction: A Hands-on Session

**Moderator: Javier Masquijo, MD**

Join us for an interactive session where the mastery of MPFL reconstruction is not merely discussed but experienced firsthand. Engage with leaders in the field as they share their expertise, providing valuable insights and practical knowledge to enhance your skills in addressing patellar instability.

12:45 PM–12:47 PM **Opening Remarks**  
Javier Masquijo, MD

12:48 PM–12:53 PM **Anatomy and Biomechanics of Medial Restraints**  
Kevin Shea, MD

12:54 PM–12:59 PM **Key Considerations in Preoperative Assessment for Patellofemoral Instability**  
Matthew Schmitz, MD

1:00 PM–1:02 PM **Pearls to Avoid Complications: Room Set-up**  
Crystal Perkins, MD

1:03 PM–1:05 PM **Pearls to Avoid Complications: MPFL Femoral Fixation**  
Eric Edmonds, MD

1:06 PM–1:08 PM **Pearls to Avoid Complications: MPFL Patellar Fixation**  
Henry Ellis, MD

1:09 PM–1:11 PM **Pearls to Avoid Complications: MQTFL Quads Fixation**  
Javier Masquijo, MD

1:12 PM–1:14 PM

**Pearls to Avoid Complications: MPFL Graft Tensioning**  
Jennifer Beck, MD

1:15 PM–1:17 PM

**Pearls to Avoid Complications: Postoperative Management and RTP**  
Franck Accadbled MD, PhD

1:18 PM–2:00 PM

**Hands-on Exercise Hands-on Faculty:**  
Javier Masquijo, MD  
Matthew Schmitz, MD  
Crystal Perkins, MD  
Eric Edmonds, MD  
Henry Ellis, MD  
Kevin Shea, MD  
Jennifer Beck, MD  
Franck Accadbled, MD, PhD  
Scott McKay, MD

## APP BREAKOUT

APP

12:45 PM–2:00 PM **Oceana Grand 2-5**

### Backbone Breakthroughs: Advancing Pediatric Spine Care

**Moderator: Valerie Parrish, PA-C**

Enhance your Pediatric Spine knowledge during this breakout session. Learn about Pediatric Spine Safety and tools to help manage patient complications both intraoperatively and postoperatively. Discover how advancements are reshaping treatments and improving outcomes for our youngest patients.

12:45 PM–12:52 PM **Spine Safety: Stand Tall, Fall Small**  
John (Jack) Flynn, MD

12:53 PM–1:00 PM **Straightening Spines, Uplifting Minds: Mental Health in Scoliosis Patients**  
Amber Mizerik, PA-C

Wednesday  
**DAILY SCHEDULE**

- 1:01 PM–1:08 PM **Halo Airway Response: Rapid Lifesaving Action!**  
Colleen Ditro, DNP, CPNP
- 1:09 PM–1:16 PM **Racing Towards Recovery: ERAS Protocols in Pediatric Scoliosis Care**  
Nicole Tweedy, RN, CPNP
- 1:17 PM–1:27 PM **Discussion**  
Colleen Ditro, DNP, CPNP  
Amber Mizerik, PA-C  
John (Jack) Flynn, MD  
Nicole Tweedy, RN, CPNP
- 1:28 PM–1:35 PM **Tiny Spines, Big Solutions: Evaluation and Management of Early Onset Scoliosis**  
Morgan McCarver, PA-C
- 1:36 PM–1:42 PM **Disc–overing the Source of the Problem: Evaluation of Back Pain**  
Craig Louer Jr., MD
- 1:43 PM–1:50 PM **“Oh, Oh, Oh it’s MAGEC”: The Pearls and Pitfalls of MAGEC Rods**  
Sarah Gilday MS, PA-C
- 1:51 PM–2:00 PM **Discussion**  
Morgan McCarver, PA-C  
Craig Louer Jr., MD  
Sarah Gilday MS, PA-C

2:05 PM–2:25 PM **Break and Exhibits**  
**Pacifica 6-7**



**CONCURRENT SESSION 1**

2:30 PM–4:00 PM **Oceana Grand 2-5**



**Twist and Shout: Unraveling the Rotational Mysteries of the Hip**

**Moderator: Philip McClure, MD**  
**eModerator: Jonathan Schoenecker, MD, PhD**

The overarching aim of this session is to foster a deeper integration and understanding among specialists who focus on hip-specific issues with a central theme of acetabular and femoral version. By offering a detailed exploration of both normal and abnormal rotational dynamics of the hip and lower extremities, we seek to illuminate the intricate interplay between hip rotation issues—including variations in femoral and acetabular version—and their significant repercussions on hip health.

2:30 PM–2:33 PM **Introduction**  
Moderator: Philip McClure, MD

**2:35 PM–3:04 PM Form Follows Function: Femoral and Acetabular Torsion Relative to Function**

2:35 PM–2:42 PM **Normal Rotational Development of the Femur and Acetabulum From Birth to Skeletal Maturity**  
Simon Kelley, MBChB, PhD, FRCS

2:43 PM–2:50 PM **Clinical and Radiographic Evaluation Techniques for Rotational Abnormalities in the Lower Extremity**  
V. Salil Upasani, MD

2:51 PM–2:58 PM **Normal Gait and Sitting With a Focus on Hip and Acetabular Rotation**  
James McCarthy, MD

Wednesday  
**DAILY SCHEDULE**

2:59 PM–3:04 PM **Discussion**  
Simon Kelley, MBChB, PhD, FRCS  
V. Salil Upasani, MD  
James McCarthy, MD

**3:06 PM–3:35 PM Addressing Hip Pathology Arising from Rotational Deformities**

3:06PM–3:13 PM **Pathological Rotational Alignment of Acetabulum Causing Hip Problems: Focus on DDH and FAI**  
Ira Zaltz, MD

3:14 PM–3:21 PM **Pathological Rotational Alignment of Femur Causing Hip Problems Transverse Plane: Focus on DDH and FAI**  
Woody Sankar, MD

3:22 PM–3:29 PM **Pathological Rotational Alignment of Femur Causing Hip Problems Coronal Plane: Focus on DDH and FAI**  
Nicholas Fletcher, MD

3:30 PM–3:35 PM **Discussion**  
Ira Zaltz, MD  
Woody Sankar, MD  
Nicholas Fletcher, MD

**3:37 PM–3:57 PM When the Hip Has Gone Missing**

3:37 PM–3:44 PM **Proximal Femoral Focal Deficiency: When There Is Hope: TYPE A/B**  
David Podeszwa, MD

3:45 PM–3:52 PM **Proximal Femoral Focal Deficiency: When There Is No Hope: TYPE C/D**  
Mihir Thacker, MD

3:52 PM–3:57 PM **Discussion**  
David Podeszwa, MD  
Mihir Thacker, MD

3:58 PM–4:00 PM **Closing Remarks**  
eModerator:  
Jonathan Schoenecker, MD, PhD

**CONCURRENT SESSION 1**

**2:30 PM–4:00 PM Oceana Grand 6-7**



**Total Patient Care: The Complex Neuromuscular Spine**

**Moderator: M. Wade Shrader, MD**  
**e-Moderator: Michael Vitale, MD**

Learn how pediatric orthopaedic surgeons work collaboratively with each other and with other specialists to optimally care for patients with underlying neuromuscular disease. An interactive session with debates and with a special section dedicated to the hearing about the journey of a young adult with cerebral palsy.

2:30 PM–2:31 PM **Introduction**  
Moderator: M. Wade Shrader, MD

2:32 PM–2:37 PM **What the NM Spine Surgeon Needs to Remember About the Hip and Pelvis**  
Vedant Kulkarni, MD

2:38 PM–2:43 PM **What the SEMLS Surgeon Need to Remember About the Spine**  
Jaysson Brooks, MD

2:44 PM–2:46 PM **Debate: Which Comes First: Scoliosis or SEMLS**  
Ron El-Hawary, MD, MSc, FRCS(C)

2:47 PM–2:52 PM **Scoliosis Surgery Comes First**  
Suken Shah, MD



Wednesday  
**DAILY SCHEDULE**

2:53 PM–2:58 PM **SEMLS Comes First**  
 Jason Howard, MD,  
 FRCS(C)

2:59 PM–3:09 PM **Resolution and Discussion**  
 Vedant Kulkarni, MD  
 Jaysson Brooks, MD  
 Ron El-Hawary, MD, MSc,  
 FRCS(C)  
 Suken Shah, MD  
 Jason Howard, MD,  
 FRCS(C)

**3:10 PM–4:00 PM Total Care of the Complex Neuromuscular Spine Patient: A Multi-disciplinary Approach**

**Moderator: Ron El-Hawary, MD, MSc, FRCS(C)**  
**e-Moderator: M. Wade Shrader, MD**

3:10 PM–3:15 PM **Pre-Op Work up for Complex Neuromuscular Patients**  
 Rachel Thompson, MD

3:16 PM–3:21 PM **Tone Management in the Perioperative Period**  
 Jennifer Laine, MD

3:22 PM–3:27 PM **Preventing and Managing Post-Op Medical Issues**  
 Benjamin Shore, MD

3:28 PM–3:33 PM **NM Disease—A Hospitalist’s Perspective**  
 Syed Arshad Ali, MD

3:34 PM–3:42 PM **Discussion**  
 Rachel Thompson, MD  
 Jennifer Laine, MD  
 Benjamin Shore, MD  
 Syed Arshad Ali, MD

3:43 PM–3:53 PM **NM Disease—A Family’s Perspective**  
 Benjamin Shrader

3:54 PM–4:00 PM **Discussion**  
 Rachel Thompson, MD  
 Jennifer Laine, MD  
 Benjamin Shore, MD  
 Syed Arshad Ali, MD  
 Benjamin Shrader

**2:30 PM–3:30 PM South China Sea**

**Ponseti on the Go (Hands-on)**

Refine your Ponseti skills with this hands-on casting lab with coaches at each station.



**Hands-on Faculty:**

L. Reid Nichols, MD  
 Javier Masquijo, MD  
 Maryse Bouchard, MD, MSc  
 Jaime Rice Denning, MD  
 Deborah Eastwood, FRCS  
 Vishwas Talwalkar, MD  
 Kenneth Noonan, MD  
 Derek Kelly, MD  
 Anthony Riccio, MD

4:05 PM–5:05 PM **Industry Spotlight Sessions 2 (non-CME)**  
 See page 27 for details

**5:10 PM–6:10 PM Happy Hour in the Hall Pacifica 6-7**



## Industry Spotlight Session 1

Wednesday, December 4, 2024

10:35 AM-11:35 AM

Johnson &amp; Johnson MedTech

Banda Sea

**Complex Spine: Optimizing AIS Correction**

Craig Louer Jr., MD; Ryan Fitzgerald, MD; and Firoz Miyanji, MD, FAAOS

Join our expert panel for a discussion on critical considerations for optimizing correction in AIS. This dynamic discussion will be complemented with hands-on opportunities of spinal rod contouring.

## OrthoPediatrics

Java Sea

**Rigid Tibial Nailing in the Skeletally Immature Patient: What We've Learned So Far**

Mark Seeley, MD

There have been changes over time in the age at which surgeons are comfortable using rigid intramedullary nails in skeletally immature patients. This session will review the literature, clinical guidelines, and real-life practice of an expert panel. Does published literature support current practice and how should you determine the best surgical option?

## Arthrex, Inc.

Timor Sea

**Managing Anterior Cruciate Ligament (ACL) Injuries**

Eric Edmonds, MD and Kevin Shea, MD

Immerse yourself in an engaging discussion guided by expert faculty and focused on managing ACL injuries in adolescent patients. Gain valuable insights and hands-on experience in a dry lab session where you'll have the exclusive opportunity to try out the first and only FDA-cleared device designed specifically for pediatric ACL surgery.

## Orthofix

Coral Sea

**Pre-Operative Planning for Limb Deformity Correction**

David Frumberg, MD, FAAOS and Phillip McClure, MD

Please join us as we focus on the advanced techniques and tools used in planning surgeries to correct limb deformities. The symposium will showcase the newly enhanced Orthofix software, a sophisticated digital platform designed to aid in precise pre-operative planning for deformity correction procedures. Participants will gain insights into how this software integrates with the TL-HEX system, improving surgical outcomes through detailed virtual modeling and accurate alignment parameters. The symposium aims to highlight innovations in orthopaedic planning, enhance understanding of complex deformity correction, and facilitate discussions on best practices for using cutting-edge technology in surgical planning.

## Stryker

Pacifica 8-10

**Surgical Confidence and Safety: Operating With Novel Smart Features When Utilizing Next Generation Guidance**

Stephen George, MD

Join Dr. Stephen George as he showcases Stryker's pedicle screw systems used with Spine Guidance 5 Software featuring Copilot and Airo TruCT to provide a procedural solution for instrumenting pediatric spinal deformities. This interactive session will feature a hands-on demonstration with the technology following the didactic presentation.

## BioMarin Pharmaceutical Inc.

Pacifica 3-5

**A Deeper Look into Achondroplasia**

Cathleen Raggio, MD

This educational program, led by a clinical expert in achondroplasia, will seek to answer questions including:

- What is the underlying cause of impaired bone growth in achondroplasia?
- How does impaired bone growth lead to multisystemic complications throughout life?
- Who should be involved in monitoring and caring for individuals with achondroplasia?

## Industry Spotlight Session 2

4:05 PM-5:05 PM

**OrthoPediatics**  
**Java Sea****The Future is Bioresorbable: Innovative Implant Materials in Pediatrics**

Scott Rosenfeld, MD, FAAP and Luis Moraleda Novo, MD, PhD

Bioabsorbable implants have distinct advantages over their metallic counterparts in the pediatric population and there have been many advancements over the last several years. This session provides a view to the future of what materials and implants will change the course of pediatric orthopaedics over the next several years from materials experts and users in the pediatric ortho community.

**Johnson & Johnson MedTech**  
**Pacifica 3-5****Resilience in Orthopaedics: Mastering Stress, Embracing Innovation**

Kristin Cola, DO; and K. Kellie Leicht, MD

Please join our expert panel for an interactive discussion focused on Resilience in Orthopaedics. Topics will cover a range of topics designed to equip participants with strategies for managing stress and avoiding burnout. This dynamic session encourages active participation, providing an exciting opportunity to ask questions, share insights, and collaborate.

**OrthoPediatics**  
**Coral Sea****Launching Your Surgical Career: Essential Steps to Start Strong**

Jennifer Bauer, MD, MS; Anthony Catanzano Jr., MD; Jaysson Brooks, MD; Christina Hardesty, MD

This industry workshop will focus on early to mid-career surgeons. During the session, the critical steps to excel will be examined by a panel of esteemed surgeons who have the recipe for success—Drs. Jennifer Bauer, Anthony Catanzano, and Jaysson Brooks, led by moderator Dr. Christina Hardesty. We will cover topics such as building an efficient clinical practice, marketing your practice, operating room concerns, mentorship, and more!

**Globus Medical**  
**Timor Sea****From the Growing Spine to Fusion: Emphasizing the Toolbox in Pediatric Spinal Deformity Care**

Lindsay Andras, MD; Robert Cho, MD; Michael Glotzbecker, MD; and Robert Lark, MD, MS

Join our expert faculty for an immersive, hands-on session designed to explore cutting-edge advancements in pediatric deformity treatment technology. This engaging session will delve into the latest innovations, techniques, and tools that are helping to revolutionize the full spectrum of pediatric spinal deformity care.

**Stryker**  
**Pacifica 8-10****Planning Ahead: Optimizing Time in the OR**

Richard Menger, MD, MPA

Efficiency in the operating room (OR) is becoming more critical than ever. As patient populations continue to grow, the need for effective time management through improved preoperative planning has never been more vital. Join Dr. Richard Menger as he shares best practices for navigating complex cases and reveals strategies for optimizing efficiency in the OR.

**HAPPY HOUR**  
**IN THE HALL**

Time to unwind after a long day.  
Come to connect, stay for the refreshments.

Wednesday, December 4  
5:10 PM-6:10 PM  
Pacifica Ballrooms 6-7



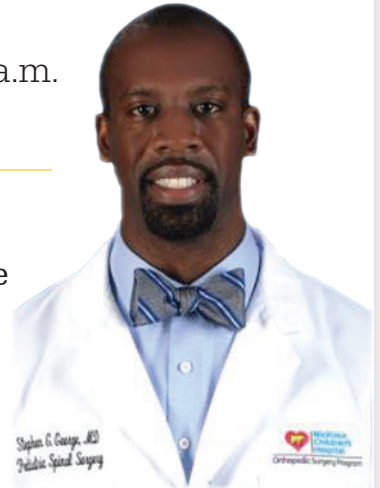


**Surgical confidence and safety:** Operating with novel smart features when utilizing next generation guidance

**Wednesday, December 4, 2024 | 10:35 a.m.**

**Location:** Pacifica 8-10

Join Dr. Stephen George as he showcases Stryker's pedicle screw systems used with Spine Guidance 5 Software featuring Copilot and Airo TruCT to provide a procedural solution for instrumenting pediatric spinal deformities.



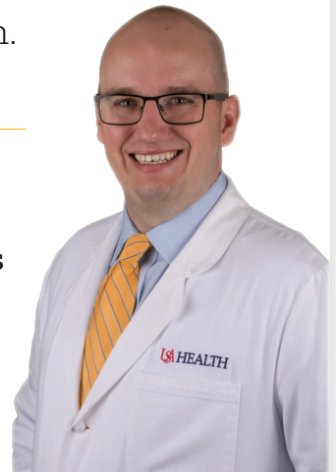
Faculty presenter: **Dr. Stephen George**

**Planning ahead:** Optimizing time in the OR

**Wednesday, December 4, 2024 | 4:05 p.m.**

**Location:** Pacifica 8-10

Efficiency in the OR is becoming increasingly more important. With patient populations on the rise, there has never been a better time to optimize one's time through enhanced pre-operative planning. Join our faculty as they discuss best practices for mapping out complex cases and hear how they prepare to maximize efficiency within the OR.



Faculty presenter: **Dr. Richard Menger**

Thursday  
**DAILY SCHEDULE**

**Thursday, December 5**

7:00 AM–8:00 AM **Breakfast with Faculty and Exhibits**  
**Pacifica 6-7**

**GENERAL SESSION 2**

8:05 AM–10:05 AM **Oceana Grand 6-7**



**Multidisciplinary, Complex Problems in Children–Spina Bifida, Amputations, and Under-served and Under-resourced**

**Moderator: John (Jack) Flynn, MD**  
**eModerator: Lindsay Andras, MD**

Providing good care for complex patients with musculoskeletal conditions often requires comprehensive knowledge and a multidisciplinary approach. In this session, we will discuss three conditions or circumstances from the perspective of very subspecialized experts and examine where those areas of expertise intersect.

8:05 AM–8:05 AM **Opening Remarks**  
 Director: Derek Kelly, MD

**8:05 AM–8:52 AM Spina Bifida**

8:05 AM–8:10 AM **Are Rates Declining? Implications for the Pediatric Orthopaedic Surgeon and How to Run the Most Effective SB Clinic**  
 Jason Howard, MD, FRCS

8:11 AM–8:16 AM **Kyphectomy: How to Minimize Complications**  
 Michael Vitale, MD

8:17 AM–8:22 AM **Upper Limb in Spina Bifida: When the UE Provider Gets Involved**  
 Andrea Bauer, MD

8:23 AM–8:28 AM **The Spina Bifida Hip: When Do We Put It Back In?**  
 Mihir Thacker, MD

8:29 AM–8:34 AM **Ways to Maximize Gait Through Lower Limb Surgery**  
 L. Reid Nichols, MD

8:35 AM–8:40 AM **The Surgeon’s Role for Foot Pressure Sores: Synergy With the Wound Care Provider**  
 Anthony Riccio, MD

8:41 AM–8:50 AM **Discussion**  
 Jason Howard, MD, FRCS  
 Michael Vitale, MD  
 Andrea Bauer, MD  
 Mihir Thacker, MD  
 L. Reid Nichols, MD  
 Anthony Riccio, MD

**8:51 AM–9:28 AM Amputation**

8:51 AM–8:56 AM **Reconstruction Strategies for the Mangled Pediatric Hand**  
 Christine Ho, MD

8:57 AM–9:02 AM **Current Technology and the Future of UE Prosthesis... What Is Possible?**  
 Lindley Wall, MD, MSc

9:03 AM–9:08 AM **Is Amputation Ever on the Mind of the Spine Surgeon?**  
 Lindsay Andras, MD

9:09 AM–9:14 AM **LE Amputation 101**  
 James McCarthy, MD

9:15 AM–9:20 AM **All About the Syme**  
 Derek Kelly, MD

Thursday  
**DAILY SCHEDULE**

9:21 AM–9:28 AM **Discussion**  
Christine Ho, MD  
Lindley Wall, MD, MSc  
Lindsay Andras, MD  
James McCarthy, MD  
Derek Kelly, MD

**9:29 AM–10:05 AM Under-Served and Under-Resourced**

9:29 AM–9:34 AM **International Surgical Missions: How to Get Involved and Be Effective**  
Kenneth Noonan, MD

9:35 AM–9:40 AM **Hand Surgery for the International Mission Surgeon**  
Donald Bae, MD

9:41 AM–9:46 AM **Spine Surgery for the International Mission Surgeon**  
Robert Cho, MD

9:47 AM–9:52 AM **Hip Surgery for the International Mission Surgeon**  
Kishore Mulpuri, MBBS, MS, MHSc, FRCSC

9:52 AM–9:57 AM **Foot Surgery for the International Mission Surgeon**  
Maryse Bouchard, MD, MSc

9:58 AM–10:05 AM **Discussion**  
Kenneth Noonan, MD  
Donald Bae, MD  
Robert Cho, MD  
Kishore Mulpuri, MBBS, MS, MHSc, FRCSC  
Maryse Bouchard, MD, MSc

10:10 AM–10:30 AM **Break and Exhibits**  
**Pacifica 6-7**

10:35 AM–11:35 AM **Industry Spotlight Sessions 3 (non-CME)**  
See page 37 for details

11:40 AM–12:40 PM **Lunch and Exhibits**  
**Pacifica 6-7**

12:10 PM–12:40 PM **Lunchtime Career Development**  
**Pacifica 6-7**

**CME BREAKOUT 2**



**12:45 PM–2:00 PM Oceana Grand 2-5**

**Essentials of Pediatric Orthopaedics II**

**Moderator: James McCarthy, MD**

This session covers a variety of pediatric orthopaedic topics and is geared toward residents, fellows, and newer advanced practice providers who desire a strong foundational knowledge and strategy to synthesize clinical data into appropriate treatment plans.

12:45 PM–12:50 PM **Practice Management: EMR Efficiency Strategies**  
Jeff Martus, MD, MS

12:51 PM–12:56 PM **Malnutrition in the Peds Ortho Patient: Diagnosis and Management**  
Vishwas Talwalkar, MD

12:57 PM–1:02 PM **Management of Wounds and Pressure Ulcers: Outpatient Strategies**  
James McCarthy, MD

1:03 PM–1:11 PM **Discussion**  
Jeff Martus, MD, MS  
Vishwas Talwalkar, MD  
James McCarthy, MD

1:11 PM–1:16 PM **Spina Bifida 101: Orthotic Management**  
Jason Howard, MD, FRCSC

1:17 PM–1:22 PM	<b>Ambulatory Cerebral Palsy: Orthotic Management</b> M. Wade Shrader, MD
1:23 PM–1:31 PM	<b>Discussion</b> Jason Howard, MD, FRCS M. Wade Shrader, MD
1:32 PM–1:36 PM	<b>Initial Evaluation of the Limping Child</b> Jaysson Brooks, MD
1:37 PM–1:41 PM	<b>MSK Infection: Avoiding and Managing Complications</b> Todd Milbrandt, MD
1:42 PM–1:46 PM	<b>Not All Who Limp Have Infection</b> Jaime Rice Denning, MD
1:47 PM–1:51 PM	<b>Lumps, Bumps, and Odd X-Rays: When to Worry</b> Mihir Thacker, MD
1:52 PM–2:00 PM	<b>Discussion</b> Jaysson Brooks, MD Todd Milbrandt, MD Jaime Rice Denning, MD Mihir Thacker, MD

**CME BREAKOUT 2**

**12:45 PM–2:00 PM Timor Sea**



**Pelvic Osteotomies Part One: Salter, Pemberton, Dega, San Diego**

**Moderator: Jonathan Schoenecker, MD, PhD**

12:45 PM–12:50 PM	<b>Salter Osteotomy</b> Simon Kelley, MBChB, PhD, FRCS
12:51 PM–12:56 PM	<b>Dega/Pemberton Osteotomy</b> Deborah Eastwood, FRCS

12:57 PM–1:02 PM	<b>San Diego Acetabuloplasty</b> V. Salil Upasani, MD
1:03 PM–1:09 PM	<b>Short Case Review</b> Jennifer Laine, MD
1:10 PM–2:00 PM	<b>Table Instruction</b> Hands-on Faculty: Simon Kelley, MBChB, PhD, FRCS Deborah Eastwood, FRCS V. Salil Upasani, MD Jennifer Laine, MD Jonathan Schoenecker, MD, PhD Ira Zaltz, MD

**CME BREAKOUT 2**



**12:45 PM–2:00 PM Oceana Grand 6-7**

**Workup and Treatment Decision-Making for AIS**

**Moderator: Lindsay Andras, MD**

Learn the fundamentals related to the etiology, assessment, evaluation, classification and treatment of adolescent idiopathic scoliosis.

12:45 PM–12:50 PM	<b>Introduction</b> Ron El-Hawary, MD, MSc, FRCS(C)
12:51 PM–12:56 PM	<b>Genetics of AIS</b> Robert Cho, MD
12:57 PM–1:02 PM	<b>Tips on Clinical Evaluation of the Teenager with Scoliosis</b> Nicholas Fletcher, MD
1:03 PM–1:08 PM	<b>Radiographic Evaluation of AIS—Ruling out Non Idiopathic</b> John (Jack) Flynn, MD
1:09 PM–1:14 PM	<b>Radiographic Classification of AIS</b> Craig Louer Jr., MD

Thursday  
**DAILY SCHEDULE**

1:15 PM–1:25 PM **Discussion**  
Ron El-Hawary, MD, MSc, FRCS(C)  
Robert Cho, MD  
Nicholas Fletcher, MD  
John (Jack) Flynn, MD  
Craig Louer Jr., MD

**1:26 PM–2:00 PM Treatment of AIS**

**Moderator: Jeffrey Sawyer, MD**

1:26 PM–1:31 PM **Scoliosis-Specific Exercise**  
Michael Vitale, MD

1:32 PM–1:37 PM **Bracing in AIS**  
Daniel Sucato, MD, MS

1:38 PM–1:43 PM **Current Indications for Growth Modulation Surgery**  
Suken Shah, MD

1:44 PM–1:49 PM **Case Presentation—Bracing vs. Growth Modulation**  
Lindsay Andras, MD

1:50 PM–2:00 PM **Discussion**  
Michael Vitale, MD  
Daniel Sucato, MD, MS  
Suken Shah, MD  
Lindsay Andras, MD

**CME BREAKOUT 2**

**12:45 PM–2:00 PM Banda Sea**



**Congenital Vertical Talus: Topic Update and Hands-On Casting**

**Moderator: Maryse Bouchard, MD, MSc**

This session will discuss current practices and controversies in CVT management and will provide a hands-on casting session for practice.

12:45 PM–12:48 PM **Welcome Remarks**  
Moderator: Maryse Bouchard, MD, MSc

12:49 PM–12:56 PM **CVT—Making the Diagnosis and Initial Assessment**  
Manoj Ramachandran, MD, FRCS (Orth)

12:57 PM–1:04 PM **Serial Casting Technique for CVT**  
Maryse Bouchard, MD, MSc

1:05 PM–1:12 PM **Initial Surgical Management and Pinning the Talonavicular Joint**  
Javier Masquijo, MD

1:13 PM–1:20 PM **What to Do When Initial Management Fails**  
Anthony Riccio, MD

1:21 PM–2:00 PM **CVT Casting (Hands-on) Hands-On Faculty:**  
John Lovejoy III, MD  
Manoj Ramachandran, MD, FRCS (Orth)  
Maryse Bouchard, MD, MSc  
Javier Masquijo, MD  
Anthony Riccio, MD  
Derek Kelly, MD  
Kenneth Noonan, MD  
Vishwas Talwarkar, MD





**CME BREAKOUT 2**

12:45 PM–2:00 PM

Coral Sea



**Unlocking the Congenital Knee**

**Moderator: Philip McClure, MD**

Focus on the knee in regards to congenital instability of the tibiofemoral joint as it applies to CFD/FH as well as congenital instability and fixed dislocations of the patella in round table discussion format.

12:45 PM–12:47 PM

**Introduction**

Philip McClure, MD

12:48 PM–1:24 PM

**Lengthening the Congenitally Unstable Knee: When and How**

12:48 PM–1:03 PM

**Congenitally Deficient Knee and Lengthening: Bridging Fixator**

David Podeszwa, MD

1:04 PM–1:09 PM

**Congenitally Deficient Knee and Lengthening: Prophylactic Ligament Reconstruction (SUPERKnee)**

L. Reid Nichols, MD

1:09 PM–1:24 PM

**Discussion**

David Podeszwa, MD  
L. Reid Nichols, MD  
Alexandre Arkader, MD  
Franck Accadbled MD, PhD

1:25 PM–1:59 PM

**Congenital Patellofemoral Pathology: How to Approach a Broad Spectrum of Disease**

1:25 PM–1:30 PM

**Congenital Patellar Instability Treatment Considerations**

Henry Ellis, MD

1:31 PM–1:36 PM

**Congenital Dislocation of the Patella (Fixed and Dislocated) Treatment Considerations**

Philip McClure, MD

1:37 PM–1:59 PM

**Discussion**

Henry Ellis, MD  
Philip McClure, MD  
L. Reid Nichols, MD  
Matthew Schmitz, MD

1:59 PM–2:00 PM

**Closing Remarks**

Philip McClure, MD

2:05 PM–2:25 PM

**Break and Exhibits**

**Pacifica 6-7**

**CONCURRENT SESSION 2**

2:30 PM–4:00 PM

Oceana Grand 6-7



**Why Are Some Flatfeet So Complicated?!**

**Moderator: Maryse Bouchard, MD, MSc**

Tips and tricks for assessing and managing the complex flatfoot. What to do when a calcaneal lengthening isn't enough.

2:30 PM–2:32 PM

**Welcome Remarks**

Moderator: Maryse Bouchard, MD, MSc

2:33 PM–3:00 PM

**Evaluating the Complex Flatfoot**

Moderator: Maryse Bouchard, MD, MSc

2:33 PM–2:39 PM

**Tips and Tricks for the Physical Exam and Radiographic Assessment**

Vishwas Talwalkar, MD

2:39 PM–2:45 PM

**When Should You Be Worried About Toddlers With Flatfeet?**

Deborah Eastwood, FRCS

Thursday  
**DAILY SCHEDULE**

2:46 PM–2:52 PM **When Does the Asymptomatic Flatfoot Deserve an Operation?**  
L. Reid Nichols, MD

2:53 PM–3:00 PM **Questions With Panel**  
Moderator: Maryse Bouchard, MD, MSc

3:01 PM–3:30 PM **The Flatfoot With a Tarsal Coalition**  
Moderator: Anthony Riccio, MD

3:01 PM–3:07 PM **Algorithm for Management of the Flatfoot With a Calcaneonavicular Coalition**  
Jaime Rice Denning, MD

3:08 PM–3:14 PM **Algorithm for Management of the Flatfoot With a Talocalcaneal Coalition**  
Javier Masquijo, MD

3:15 PM–3:21 PM **Indications and Techniques for Arthrodesis in the Flatfoot With a Coalition**  
Derek Kelly, MD

3:22 PM–3:30 PM **Questions with Panel**  
Moderator: Anthony Riccio, MD

3:31 PM–4:00 PM **The Flatfoot With Other Concurrent Pathology—How Should Management Differ?**  
Moderator: Jaime Rice Denning, MD

3:31 PM–3:37 PM **The Flatfoot With an Accessory Navicular**  
Todd Milbrandt, MD

3:38 PM–3:44 PM **The Flatfoot That's Actually a Residual Untreated CVT**  
Anthony Riccio, MD

3:45 PM–3:51 PM **The Flatfoot With Distal Tibial Deformity**  
Maryse Bouchard, MD, MSc

3:52 PM–4:00 PM **Questions with Panel**  
Moderator: Jaime Rice Denning, MD

**CONCURRENT SESSION 2**

**2:30 PM–4:00 PM Pacifica 3-5**



**Cool Strategies for Hot and Cold Pediatric Upper Extremity Trauma**

**Moderator: Lindley Wall, MD, MSc**  
**eModerator: Andrea Bauer, MD**

Join our illustrious international experts on this tour of acute and chronic traumatic conditions of the upper limb! From management of common hand fractures to treatment of radial growth arrest to reconstruction of nerve injuries, there will be valuable pearls and techniques for front-line providers and seasoned surgeons.

2:30 PM–2:33 PM **Introduction**  
Lindley Wall, MD, MSc

**2:34 PM–2:58 PM Common Hand Fractures**

2:34 PM–2:38 PM **Acute Phalangeal Neck Fractures: What to Do and When to Do It**  
Andrea Bauer, MD

2:39 PM–2:43 PM **Phalangeal Neck Fractures: Approach to the Late Presenter**  
Donald Bae, MD

2:44 PM–2:58 PM **Discussion**  
Lindley Wall, MD, MSc  
Donald Bae, MD  
Andrea Bauer, MD  
Christine Ho, MD

2:59 PM–3:29 PM

**Distal Radial Physeal Fractures**

2:59 PM–3:03 PM

**Distal Radial Physeal Fractures: It's Healed, Now What?**

Christine Ho, MD

3:04 PM–3:08 PM

**Rebalancing the Wrist After Distal Radial Growth Arrest**

Sebastian Farr, MD

3:09 PM–3:13 PM

**Distal Epiphyseodeses: How I Do It**

Andrea Bauer, MD

3:14 PM–3:29 PM

**Discussion**Donald Bae, MD  
Christine Ho, MD  
Sebastian Farr, MD  
Andrea Bauer, MD

3:30 PM–3:59 PM

**Elbow Injuries**

3:30 PM–3:34 PM

**Acute Pulseless Supracondylar Fractures: My Treatment Algorithm**

Christine Ho, MD

3:35 PM–3:39 PM

**Nerve Palsies After Elbow Fractures: When Do I Intervene?**

Andrea Bauer, MD

3:40 PM–3:44 PM

**Cubitus Varus: My Indications and Favorite Technique**

Sebastian Farr, MD

3:45 PM–3:59 PM

**Discussion**Christine Ho, MD  
Andrea Bauer, MD  
Sebastian Farr, MD  
Donald Bae, MD

3:59 PM–4:00 PM

**Concluding Remarks**

Lindley Wall, MD, MSc

**APP BREAKOUT 2**

2:30 PM–4:00 PM Oceana Grand 2-5

**Pediatric Trauma: Tackling Challenges and Finding Strength****Moderator: Nicole Tweedy, RN, CPNP**

Understand the unique challenges of pediatric trauma and explore strategies for effective management of fractures.

2:30 PM–2:37 PM

**Ankle in Ache: Navigating the Break**

Christopher Tremonti, PA-C

2:38 PM–2:45 PM

**HANDY Solutions: Managing Pediatric Metacarpal Fractures and Volar Plate Injuries**

John Ansiaux, PA-C

2:46 PM–2:53 PM

**Discussion**Christopher Tremonti, PA-C  
John Ansiaux, PA-C

2:54 PM–3:27 PM

**Master Class: Preferred Methods of Management for Forearm Fractures**

2:54 PM–3:00 PM

**Closed Reduction/Wedging of Forearm Fractures**

John Ansiaux, PA-C

3:01 PM–3:08 PM

**Operative Management of Forearm Fractures**

Sheila Marceron, DNP

3:09 PM–3:16 PM

**Nonoperative Management of Forearm Fractures**

Thomas McPartland, MD

3:17 PM–3:27 PM

**Discussion**John Ansiaux, PA-C  
Sheila Marceron, DNP  
Thomas McPartland, MD

Thursday  
**DAILY SCHEDULE**

<b>3:28 PM–4:00 PM</b>	<b>Master Class: Preferred Methods of Management for Tibial Shaft Fractures</b>
3:28 PM–3:35 PM	<b>Closed Reduction/ Wedging of Tibial Shaft Fractures</b> Kevin Moore, PA-C
3:36 PM–3:43 PM	<b>Operative Management of Tibial Shaft Fractures</b> Christopher Tremonti, PA-C
3:43 PM–3:50 PM	<b>Nonoperative Management of Tibial Shaft Fractures</b> Philip McClure, MD
3:50 PM–4:00 PM	<b>Discussion</b> Kevin Moore, PA-C Christopher Tremonti, PA-C Philip McClure, MD

<b>2:30 PM–3:30 PM</b>	<b>South China Sea</b>
<b>Pavlik on the Go (Hands-on)</b> 	
Brief introduction with tips and tricks focused on Pavlik.	
<b>Hands-on Faculty:</b> Valerie Parrish, PA-C Lydia Belcher, APRN Simon Kelley, MBChB, PhD, FRCS Deborah Eastwood, FRCS Kishore Mulpuri, MBBS, MS, MHSc, FRCSC	
<b>2:30 PM–3:30 PM</b>	<b>South China Sea</b>
<b>Halo on the Go (Hands-on)</b> 	
Brief introduction with Halo tips and tricks with the opportunity to learn and practice on a simulator with real equipment.	
<b>Hands-on Faculty:</b> Firoz Miyanji, MD, FRCSC Ron El-Hawary, MD, MSc, FRCS(C) Suken Shah, MD John Lovejoy III, MD Michael Glotzbecker, MD Jennifer Bauer, MD Jeffrey Sawyer, MD	



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## Industry Spotlight Session 3

Thursday, December 5, 2024

10:35 AM-11:35 AM

**OrthoPediatrics****Java Sea****Is it Possible to Minimize Spica Cast Usage?**

Andrea Kramer, MD

Surgeons now have an alternative to spica casting with a proven bracing solution. This session will highlight the new user experience with pediatric orthopaedic surgeons who have navigated hospital approval with successful treatment outcomes.

**Johnson & Johnson MedTech****Pacifica 8-10****Pediatric to Adult: Comprehensive Insights for Pediatric Spine Deformity Surgeons**

Jennifer Bauer, MD, MS; Ron El-Hawary, MD, MSc, FRCS(C); and M. Wade Shrader, MD

Join our expert panel for an interactive discussion on optimizing care with an eye to the future. This dynamic session encourages active participation, providing an exciting opportunity to ask questions, share insights, and collaborate with leading surgeons in the field.

**Pacira BioSciences****Banda Sea****Pain Management Strategies on Both Pediatric Spine and Sports Medicine Procedures Using Regional Anesthesia Techniques**

Robert Cho, MD and V. Salil Upasani, MD

Innovative pain management technique for both pediatric spine and hip procedures using liposomal bupivacaine.

**Highridge Medical****Coral Sea****Incorporating Novel Technologies Into Your Practice as an Early Career Surgeon**

Craig Louer Jr., MD and Firoz Miyanji, MD, FRCS

Differentiate yourself from your peers by providing patients with the latest treatment options available. In doing so, there are some learning hurdles that you should know about. This workshop will highlight the decision-making

conversation with patients and understanding the insurance pre-authorization process and how to combat an insurance denial. Faculty will also discuss the how to navigate the board collection process while providing patients with novel treatment options such as a Vertebral Body Tethering.

**Medtronic****Pacifica 3-5****Adopting New Technology Now to Differentiate Yourself Later: What I Wish I Knew as an Early Career Surgeon**

Lindsay Andras, MD; Kirsten Ross, MD; and Michael Glotzbecker, MD

Join our faculty as they discuss pearls and lessons learned through their journeys embarking on their careers, including how to build your ideal practice, why early adoption of new technology is important, best practices for navigating the acquisition process, and more!

**Orthofix****Timor Sea****If I'm Being Completely Transparent: Radiolucent Circular Fixation for Pediatric Patients**

David Frumberg, MD, FAAOS and Elizabeth Hubbard, MD

Join us for case-based discussion and hands-on demonstration where the experienced faculty take you through a number of applications, benefits and best practices utilizing a pediatric-friendly lightweight, stable, radiolucent frame for complex limb reconstruction and deformity correction procedures.





## Orthopedics for the Future

The Orthopedic Institute at Children's Hospital Colorado is a recognized national leader in personalized care just for kids, drawing patients from around the country and the world. Across 10 subspecialties, we bring together excellence in pediatric orthopedic research, innovation, education and clinical care all in one place.

- Research-driven care
- Spine surgery excellence
- Expert skeletal dysplasia care
- Newborn to young adult complex hip care
- Comprehensive Neuromuscular and Cerebral Palsy Program

**62K+**

Annual outpatient visits

**4,500+**

Annual surgical cases

**240+**

Active research projects, including participation in 30 multisite collaborations



Scan the QR code to explore how we're advancing pediatric orthopedic care.



Children's Hospital Colorado  
Orthopedics Institute

Friday  
**DAILY SCHEDULE**

**Friday, December 6**

7:00 AM–8:00 AM **Breakfast and Exhibits**  
**Pacifica 6-7**

**CME BREAKOUT 3**



**8:05 AM–9:20 AM Oceana Grand 6-7**

**Current Surgical Controversies in AIS**

**Moderator: Michael Glotzbecker, MD**  
**e-Moderator: Firoz Miyajni, MD, FRCSC**

An advanced level session with a focus on indications for fusion surgery and strategies for optimally and safely treating adolescent idiopathic scoliosis with fusion techniques.

8:06 AM–8:10 AM **Introduction**  
 Ron El-Hawary, MD, MSc, FRCSC(C)

8:11 AM–8:16 AM **Indications for Fusion Surgery**  
 Craig Louer Jr., MD

**8:17 AM–8:37 AM Debate: 45 Degree Thoracic Curve, 16-Year-Old Skeletally Mature Patient**

8:17 AM–8:19 AM **Case Presentation**  
 Jennifer Bauer, MD

8:20 AM–8:24 AM **Pros: This Patient Should Be Managed With Surgery**  
 Firoz Miyajni, MD, FRCSC

8:25 AM–8:29 AM **Con: This Patient Will Do Better in the Long-Term Without Surgery**  
 Todd Milbrandt, MD

8:30 AM–8:37 AM **Debate Resolution and Discussion**  
 Jennifer Bauer, MD  
 Firoz Miyajni, MD, FRCSC  
 Todd Milbrandt, MD

**8:38 AM–9:20AM Advanced Surgical Techniques for AIS**

**Moderator: Robert Cho, MD**  
**e-Moderator: Craig Louer Jr., MD**

8:38 AM–8:43 AM **Level Selection in AIS: My Guiding Rules for Lenke 1 Curves**  
 Jeff Martus, MD, MS

8:44 AM–8:49 AM **The Biomechanics of Deformity Correction: Tips and Tricks on How to Correct a Lenke 1A Curve**  
 Robert Cho, MD

8:50 AM–8:55 AM **Shoulder Balance in AIS: Respect the Proximal Thoracic Curve**  
 Ron El-Hawary, MD, MSc, FRCSC(C)

8:56 AM–9:03 AM **Discussion**  
 Jeff Martus, MD, MS  
 Robert Cho, MD  
 Ron El-Hawary, MD, MSc, FRCSC(C)

9:04 AM–9:08 AM **Thoracoscopic Anterior Release**  
 Daniel Sucato, MD, MS

9:09 AM–9:13 AM **Posterior Osteotomy Techniques**  
 Suken Shah, MD

9:14 AM–9:20 AM **Discussion**  
 Daniel Sucato, MD, MS  
 Suken Shah, MD

Friday  
**DAILY SCHEDULE**

**CME BREAKOUT 3**

8:05 AM–9:20 AM

Timor Sea



**Pelvic Osteotomies Part Two: Triple, PAO (Hands-On)**

Moderator: Jonathan Schoenecker, MD, PhD

Part 2: Triple and Periacetabular Osteotomies

8:05 AM–8:09 AM

**PAO**

Daniel Sucato, MD, MS

8:10 AM–8:19 AM

**Triple Osteotomy**

Ira Zaltz, MD

8:20 AM–8:29 AM

**Short Case Review**

David Podeszwa, MD

8:30 AM–9:20 AM

**Table Instruction**

Hands-on Faculty  
 Daniel Sucato, MD, MS  
 Ira Zaltz, MD  
 Jonathan Schoenecker, MD, PhD  
 Woody Sankar, MD  
 V. Salil Upasani, MD  
 David Podeszwa, MD

8:12 AM–8:14 AM

**How Do You Reduce This?**

Andrea Bauer, MD

8:15 AM–8:17 AM

**Where Do I Put the Pins?**

Christine Ho, MD

8:17 AM–8:20 AM

**Table Assignments**

Lindley Wall, MD, MSc

8:21 AM–9:05 AM

**Hands-on Workshop**

Hands-on Faculty:  
 Donald Bae, MD  
 Lindley Wall, MD, MSc  
 Andrea Bauer, MD  
 Christine Ho, MD  
 Jennifer Beck, MD  
 Eric Edmonds, MD  
 Alexandre Arkader, MD  
 Matthew Schmitz, MD  
 Scott McKay, MD  
 Vishwas Talwalkar, MD  
 Kenneth Noonan, MD  
 Derek Kelly, MD  
 Anthony Riccio, MD  
 Nicholas Fletcher, MD  
 John Lovejoy III, MD

**CME BREAKOUT 3**

8:05 AM–9:20 AM

Banda Sea



**Pinning an Elbow (Hands-on)**

Moderator: Lindley Wall, MD, MSc

A hands-on and interactive session on pinning of supracondylar humerus fractures, guided by our esteemed IPOS® faculty. Space is limited, so register early!

8:05 AM–8:08 AM

**The Elbow Is Broken...**

Lindley Wall, MD, MSc

8:09 AM–8:11 AM

**How Do I Like My Operating Suite Set Up?**

Donald Bae, MD

9:06 AM–9:07 AM

**Debrief**

Moderator: Lindley Wall, MD, MSc

9:08 AM–9:10 AM

**Final Tips for Pin Placement—Medial or Lateral?**

Donald Bae, MD

9:11 AM–9:13 AM

**When and How to Open?**

Andrea Bauer, MD

9:14 AM–9:16 AM

**How to Make the Best Cast**

Christine Ho, MD

9:17 AM–9:20 AM

**When the Cast Comes Off and Pins Come Out**

Eric Edmonds, MD



# Friday DAILY SCHEDULE

## CME BREAKOUT 3

8:05 AM–9:20 AM

Coral Sea



### Neuromuscular Gait Analysis for Non-CP Conditions

**Moderator: M. Wade Shrader, MD**

Group discussion format to present the most important aspect of gait analysis for the most common non-CP neuromuscular conditions

8:05 AM–8:07 AM

#### Introduction

M. Wade Shrader, MD

8:08 AM–8:15 AM

#### Identifying Pathological Gait in Neuromuscular Disorders

Vedant Kulkarni, MD

8:16 AM–8:24 AM

#### How I Approach Gait Analysis: The Diagnostic Matrix

Rachel Thompson, MD

8:25 AM–8:40 AM

#### Case Discussion: Myelomeningocele

M. Wade Shrader, MD  
Benjamin Shore, MD  
Rachel Thompson, MD  
Vedant Kulkarni, MD  
Jason Howard, MD, FRCS  
Thomas Dreher, MD  
Jennifer Laine, MD

8:41 AM–8:56 AM

#### Case Discussion: Hereditary Spastic Paraparesis

M. Wade Shrader, MD  
Benjamin Shore, MD  
Rachel Thompson, MD  
Vedant Kulkarni, MD  
Jason Howard, MD, FRCS  
Thomas Dreher, MD  
Jennifer Laine, MD

8:57 AM–9:12 AM

#### Case Discussion: CMT

M. Wade Shrader, MD  
Benjamin Shore, MD  
Rachel Thompson, MD  
Vedant Kulkarni, MD

Jason Howard, MD, FRCS  
Thomas Dreher, MD  
Jennifer Laine, MD

9:13 AM–9:15 AM

**Master Review: Take Home Points Myelo**  
Benjamin Shore, MD

9:16 AM–9:18 AM

**Master Review: Take Home Points CMT**  
Jason Howard, MD, FRCS

9:18 AM–9:20 AM

**Master Review: Take Home Points HSP**  
Vedant Kulkarni, MD

## APP BREAKOUT 3

8:05 AM–9:20 AM

Oceana Grand 2-5



### Hot Topics in Orthopaedics: Innovation and Preoperative Trends

**Moderator: Valerie Parrish, PA-C**

Explore the latest advancements and trends shaping orthopaedic practice today. From innovative surgical techniques to breakthroughs in technology, this program will provide valuable insights into the rapidly evolving landscape of orthopaedic care.

8:05 AM–9:20 AM

**Hot Topics in Orthopaedics: Innovation and Peri-Operative Trends**  
Moderator: Valerie Parrish, PA-C

8:05 AM–8:12 AM

**3D Precision: Creating Custom Cutting Guides for Surgery**  
John Ansiaux, PA-C

8:13 AM–8:20 AM

**Custom Drip, No CAP: Custom Implants for Pediatric Oncology Patients**  
Paige Wheaton, PA-C

Friday  
**DAILY SCHEDULE**

8:21 AM–8:28 AM **Perioperative Optimization: Social Determinants of Health**  
 Morgan McCarver, PA-C

8:29 AM–8:36 AM **Using Opioid Alternatives in Postoperative Pain Management**  
 Sheila Marceron, DNP

8:37 AM–8:44 AM **Revolutionizing External Fixator Management for Lower Limb Deformities**  
 Kevin Moore, PA-C

8:45 AM–8:52 AM **Beyond 3D: Navigating Spinal Advancements with 7D Precision**  
 Jaysson Brooks, MD

8:53 AM–9:03 AM **Discussion**  
 John Ansiaux, PA-C  
 Paige Wheaton, PA-C  
 Morgan McCarver, PA-C  
 Sheila Marceron, DNP  
 Kevin Moore, PA-C  
 Jaysson Brooks, MD

9:04 AM–9:20 AM **Hands-on Frame Management Demonstration with OrthoPediatrics**  
 Kevin Moore, PA-C



8:05 AM–11:20 AM **Pacifica 3-5**

**Practicing PediPod: Teach the Teacher, Leadership Institute, and Finance** 

\* This session is intended for board certified, practicing pediatric orthopaedic surgeons with at least 3 years practice in their career.

**Moderators: James McCarthy, MD  
 Suken Shah, MD**

Been an attending for a while and trying to get to the next level? Want to be a better teacher, speaker, mentor, and leader? Who doesn't?! Faculty will be dropping pearls on all this and more in a small group setting! The Leadership Institute Masterclass is in session with negotiation, feedback, effective changemaking, and compensation models that work. Increase your EQ as well as your IQ! We end with updates on AI/ML and full spectrum financial management tactics for us by us.

**8:05 AM–8:45 AM Teach the Teacher Workshop 2024**

**Moderator: Sandra Jarvis-Selinger, PhD**

Panelists: Craig Ebersson, MD  
 Thomas McPartland, MD  
 Suken Shah, MD  
 Lindsay Andras, MD

- Be a Better Presenter Small Group Exercise
- What Is It You Want to Say?
- Know Your Audience
- Effective Presentation Skills
- Using PowerPoint as an Aid, Not a Crutch
- Make It Stick
- Group Report Out, Lessons Learned

**Friday**  
**DAILY SCHEDULE**

**8:45 AM–9:30 AM Leadership Institute I**

**Moderators:** James McCarthy, MD  
John (Jack) Flynn, MD

8:45 AM–8:51 AM **The Best Negotiation: Both Sides Win?**  
Kishore Mulpuri, MBBS, MS, MHSc, FRCSC

8:52 AM–9:00 AM **How to Develop and Implement a Meaningful Strategic Plan**  
James McCarthy, MD

9:00 AM–9:29 AM **Good to Great: Five Steps to Division/ Department Leadership Success**  
Jeffrey Sawyer, MD  
Kishore Mulpuri, MBBS, MS, MHSc, FRCSC  
Michael Glotzbecker, MD  
Michael Vitale, MD

9:29 AM–9:34 AM **Discussion**

9:34 AM–9:44 AM **Break**

**9:45 AM–10:15 AM Leadership Institute II**

**Moderators:** Sandra Jarvis-Selinger, PhD

**Panelists:** Suken Shah, MD  
Lindsay Andras, MD  
Kishore Mulpuri, MBBS, MS, MHSc, FRCSC  
Daniel Sucato, MD, MS  
Donald Bae, MD  
Todd Milbrandt, MD  
James McCarthy, MD  
Kevin Shea, MD  
Jaime Rice Denning, MD  
V. Salil Upasani, MD

- Active Listening
- Crucial Conversations
- Giving and Receiving Feedback
- Leading Impactful QI Efforts for Change
- Group Report Out, Lessons Learned

10:16 AM–10:25 AM **Physician Compensation: Models, Incentives, and Benchmarks**  
James McCarthy, MD

10:26 AM–10:34 AM **A Primer on LLM and Machine Learning in Medicine**  
Manoj Ramachandran, BSc(Hons), MBBS(Hons), MRCS(Eng), FRCS(Tr&Orth)

10:35 AM–10:43 AM **AI in Peds Ortho—An Update**  
Manoj Ramachandran, BSc(Hons), MBBS(Hons), MRCS(Eng), FRCS(Tr&Orth)

10:44 AM–10:50 AM **How to Crush the Video Interview (On Both Sides of the Screen)**  
Nicholas Fletcher, MD

10:50 AM–10:55 AM **Discussion**  
James McCarthy, MD  
Manoj Ramachandran, BSc(Hons), MBBS(Hons), MRCS(Eng), FRCS(Tr&Orth)  
Nicholas Fletcher, MD

10:55 AM–11:20 AM **Financial Management 101 to 401**  
Mark Rieger, MD, CFP

9:25 AM–9:45 AM **Break and Exhibits**  
**Pacifica 6-7**

# Leading the Growth in Limb Reconstruction

*Through Innovation of Hardware and Digital Solutions  
for Patients of All Ages*

EXTREMITY DEFORMITY  
CORRECTION

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*Explore the Comprehensive Portfolio of Orthofix  
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Join our Spotlight Sessions this week!

**Pre-Operative Planning  
for Limb Deformity Correction**

Wednesday, December 4 at 10:35 AM-11:35 AM  
Coral Sea Room

**Faculty**

Philip McClure, MD  
David Frumberg, MD

**If I'm Being Completely Transparent:  
Radiolucent Circular Fixation  
for Pediatric Patients**

Thursday, December 5 at 10:35 AM-11:35 AM  
Timor Sea Room

**Faculty**

David Frumberg, MD  
Elizabeth Hubbard, MD

## CONCURRENT SESSION 2

9:50 AM–11:20 AM Oceana Grand 2-5



### Pediatric Sports Controversies: If It's Your Child, What Do You Do?

Moderator: Eric Edmonds, MD

eModerator: Scott McKay, MD

This session is designed to address critical issues in pediatric sports medicine through engaging debates. The format features insights from two highly skilled debaters, fostering audience engagement through questions and discussions. This session covers a range of topics, including ACL tears in different age groups, management of recurrent patellar dislocation, and approaches to treating knee osteochondral defects.

9:50 AM–9:52 AM **Opening Remarks and Pre-Debate Voting**

Eric Edmonds, MD

9:53 AM–9:57 AM **Debate Prompt: ACL Tear in 10-Year-Old Male: Physeal-Sparing IT Band ACL Reconstruction**

Henry Ellis, MD

9:58 AM–10:02 AM **Debate Prompt: ACL Tear in 10-Year-Old Male: All-Epiphyseal Technique for ACL Reconstruction**

Eric Edmonds, MD

10:03 AM–10:09 AM **Discussion**

Henry Ellis, MD

Eric Edmonds, MD

10:10 AM–10:14 AM **Debate Prompt: ACL Tear in 15-Year-Old Male Soccer Player With Increased Hyperlaxity: LET Is Unnecessary**

Jennifer Beck, MD

10:15 AM–10:19 AM **Debate Prompt: ACL Tear in 15-Year-Old Male Soccer Player With Increased Hyperlaxity: LET Is a Must**

Scott McKay, MD

10:20 AM–10:26 AM **Discussion**

Jennifer Beck, MD

Scott McKay, MD

10:27 AM–10:31 AM **Debate Prompt: Recurrent Patellar Dislocation and Severe Genu Valgum in a 12-Year-Old Male: One-Stage Guided Growth/MPFL-R**

Matthew Schmitz, MD

10:32 AM–10:36 AM **Debate Prompt: Recurrent Patellar Dislocation and Severe Genu Valgum in a 12-Year-Old Male: Staged Guided Growth/MPFL-R**

Javier Masquijo, MD

10:37 AM–10:43 AM **Discussion**

Matthew Schmitz, MD

Javier Masquijo, MD

10:44 AM–10:48 AM **Debate Prompt: Recurrent Patellar Dislocation, TT-TG 20mm, Type D Trochlear Dysplasia and Positive J Sign in a 16-Year-Old Female: MPFL-R + TTO**

Crystal Perkins, MD

Friday  
**DAILY SCHEDULE**

- 10:49 AM–10:53 AM **Debate Prompt: Recurrent Patellar Dislocation, TT-TG 20mm, Type D Trochlear dysplasia and positive J sign in a 16-year-old Female: MPFL-R + Trochleoplasty**  
 Franck Accadbled MD, PhD
- 10:54 AM–11:00 AM **Discussion**  
 Crystal Perkins, MD  
 Franck Accadbled MD, PhD
- 11:01 AM–11:05 AM **Debate Prompt: 2.5cm2 Unstable JOCD of the Knee in a 17-Year-Old Male: Preserve the Cartilage by All Means**  
 Henry Ellis, MD
- 11:06 AM–11:10 AM **Debate Prompt: 2.5cm2 Unstable JOCD of the Knee in a 17-Year-Old Male: Fresh Osteochondral Allograft Is the Solution**  
 Kevin Shea, MD
- 11:11 AM–11:20 AM **Discussion and Post-Debate Voting**  
 Henry Ellis, MD  
 Kevin Shea, MD



**CONCURRENT SESSION 2**

9:50 AM–11:20 AM **Oceana Grand 6-7**



**Basics of Lower Extremity Deformity Analysis**

**Moderator:** L. Reid Nichols, MD  
**eModerator:** Philip McClure, MD

Deformity of the lower extremity is one of the most common entities in pediatric orthopaedics. This session presents an overview of a clear and concise system for deformity analysis and correction planning.

- 9:50 AM–9:52 AM **Introduction**  
 Moderator: L. Reid Nichols, MD
- 9:53 AM–9:58 AM **Normal Alignment in the Coronal Plane**  
 Philip McClure, MD
- 9:59 AM–10:04 AM **Normal Alignment in the Coronal Plane With PPT Walkthrough**  
 David Podeszwa, MD
- 10:05 AM–10:08 AM **Discussion**  
 Philip McClure, MD  
 L. Reid Nichols, MD  
 David Podeszwa, MD

**10:10 AM–10:37 AM Coronal Plane Deformity Analysis**

- 10:10 AM–10:20 AM **Tibial Deformity Analysis With PPT Walkthrough (Proximal Tibia)**  
 L. Reid Nichols, MD
- 10:21 AM–10:31 AM **Tibial Deformity Analysis With PPT Walkthrough (Distal Tibia)**  
 Simon Kelley, MBChB, PhD, FRCS

**Friday**  
**DAILY SCHEDULE**

10:32 AM–10:37 AM **Discussion**  
L. Reid Nichols, MD  
Philip McClure, MD  
Simon Kelley, MBChB,  
PhD, FRCS

**10:37 AM–11:19 AM Deformity Potpourri**

10:37 AM–10:49 AM **Sagittal Plane Deformity Overview**  
Alexandre Arkader, MD

10:50 AM–11:02 AM **Choosing the Appropriate Correction Level**  
Mihir Thacker, MD

11:03 AM–11:08 AM **Joint Line Obliquity: Does It Matter?**  
David Podeszwa, MD

11:09 AM–11:19 AM **Discussion**  
Alexandre Arkader, MD  
Mihir Thacker, MD  
David Podeszwa, MD  
Simon Kelley, MBChB,  
PhD, FRCS

11:19 AM–11:20 AM **Closing Remarks**  
Moderator: L. Reid Nichols, MD

11:25 AM–12:25 PM **Lunch and Exhibits**  
**Pacifica 6-7**

11:55 AM–12:25 PM **Lunchtime Career Development**  
**Pacifica 6-7**

**GENERAL SESSION 3**

**12:30 PM–2:50 PM Oceana Grand 6-7**



**Author's Preferred Techniques**

**Moderator: Derek Kelly, MD**  
**eModerator: Robert Cho, MD**

An IPOS® signature session! Join our international faculty as they share master surgical techniques and soft skills in short, video-based presentations.

12:30 PM–12:31 PM **Introduction**  
Director:  
Derek Kelly, MD

12:32 PM–12:37 PM **Reduction and Flexion-Type SCH**  
Nicholas Fletcher, MD

12:38 PM–12:43 PM **Elbow Ulnar Collateral Ligament Reconstruction**  
Eric Edmonds, MD

12:44 PM–12:49 PM **Submuscular Plate for Pediatric Femur Fracture**  
Jeffrey Sawyer, MD

12:50 PM–12:55 PM **Discussion**  
Moderator: Derek Kelly, MD  
eModerator:  
Robert Cho, MD

12:56 PM–1:01 PM **Single Incision Triple**  
Woody Sankar, MD

1:02 PM–1:07 PM **Proximal Femoral Resection Through Troch Flip**  
Jonathan Schoenecker, MD, PhD

1:08 PM–1:13 PM **Derotational Femoral Osteotomy Over a Nail**  
Phillip McClure, MD

Friday  
**DAILY SCHEDULE**

1:14 PM–1:19 PM **Discussion**  
Moderator: Derek Kelly, MD  
eModerator:  
Robert Cho, MD

1:20 PM–1:25 PM **Navigation for Spine Deformity: Strategies for Intraoperative Efficiency**  
Jeff Martus, MD, MS

1:26 PM–1:31 PM **IONM Interpretation**  
Daniel Sucato, MD, MS

1:32 PM–1:37 PM **Spinal Fixation Techniques**  
Suken Shah, MD

1:38 PM–1:43 PM **Discussion**  
Moderator: Derek Kelly, MD  
eModerator:  
Robert Cho, MD

1:44 PM–1:49 PM **Hybrid Fixation for Juvenile OCD of the Knee**  
Javier Masquijo, MD

1:50 PM–1:55 PM **Hip Arthroscopy for Pediatric Septic Hip**  
Henry Ellis, MD

1:56 PM–2:01 PM **Subtalar Coalition Excision**  
Anthony Riccio, MD

2:02 PM–2:07 PM **Discussion**  
Moderator: Derek Kelly, MD  
eModerator:  
Robert Cho, MD

2:08 PM–2:13 PM **FDS Opposition for Thumb Hypoplasia**  
Lindley Wall, MD, MSc

2:14 PM–2:19 PM **Anterior Approach to the Pediatric Hip**  
Ira Zaltz, MD

2:20 PM–2:25 PM **E&M Medical Decision-Making for the Pedipod**  
Derek Kelly, MD

2:25 PM–2:30 PM **Discussion and Audience Voting**  
Moderator: Derek Kelly, MD  
eModerator:  
Robert Cho, MD

2:31 PM–2:50 PM **Awards: Presentation of Resident Cases, Top Gun, and Author's Preferred Techniques**  
Director: Derek Kelly, MD

*Cheers to 20 Years!*

Join us in raising a toast to commemorate the 20th Annual IPOS® alongside your esteemed colleagues, faculty members, past IPOS® directors, and exhibitors!

2:55 PM–3:30 PM  
**Pacifica 6-7**







Children's Health



## A Growing Program for Growing Bones

- POSNA leadership positions for several faculty:
  - **Kevin Shea, MD**, president-elect
  - **Meghan Imrie, MD**, Pediatric Orthopaedic Fellowship Committee director
  - **Kali Tileston, MD**, Communications Council chair
  - **John Vorhies, MD**, at-large member of the board
- **25%** growth in visits and surgeries in the last five years
- **70** active trials

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## Saturday, December 7

7:00 AM–8:00 AM **Breakfast**  
**Pacifica 6-7**

7:30 AM–9:35 AM **Pacifica 3-5**

### Practicing PediPod: Practice Management, Innovation, and Peak Performance

\* This session is intended for board certified, practicing pediatric orthopaedic surgeons with at least 3 years practice in their career.

#### Moderator: Suken Shah, MD

This session is a must for Fellowship Program Directors and all aspiring leaders in pediatric orthopaedics: academic and clinical. We will dig into up-to-the-minute news on Peds Ortho Fellowships, POSNA involvement demystified, updates on coding, and billing, practice management of APPs and adopting innovation in your practice.

7:30 AM–7:40 AM **Peds Ortho Fellowship Update and Latest Survey Results**  
 Meghan Imrie, MD

7:40 AM–7:46 AM **Society Involvement, Service, and Volunteer Leadership: Why Is It Important?**  
 Jeffrey Sawyer, MD

7:47 AM–7:55 AM **JPOSNA®: Our Society's Journal—Your Role and Its Impact on the Care of Children**  
 Kenneth Noonan, MD

7:55 AM–8:00 AM **Discussion**  
 Meghan Imrie, MD  
 Jeffrey Sawyer, MD  
 Kenneth Noonan, MD

8:00 AM–8:57 AM **Peds Ortho Practice Management**  
 Moderator:  
 Suken Shah, MD

8:00 AM–8:14 AM **Billing and Coding Changes for Peds Ortho in 2024**  
 Kevin Neal, MD

8:15 AM–8:25 AM **Best Practice in Coding for Fractures—Global or E&M?**  
 Lindsay Andras, MD

8:25 AM–8:30 AM **Discussion**  
 Kevin Neal, MD  
 Lindsay Andras, MD

8:30 AM–8:40 AM **Onboarding a New APP in Your Practice: Competencies, Mastery, and Autonomy**  
 John Lovejoy III, MD

8:40 AM–8:45 AM **Innovation in APP for Peds Ortho—What I Do**  
 Valerie Parrish, PA-C

8:46 AM–8:51 AM **Innovation in APP and NonOp MDs for Peds Ortho—What I Do**  
 John (Jack) Flynn, MD

8:52 AM–8:58 AM **Discussion**  
 John Lovejoy III, MD  
 Valerie Parrish, PA-C  
 John (Jack) Flynn, MD

8:59 AM–9:07 AM **Where's the Safe Place for Innovation in Practice? Protecting Patients and Preserving Trust**  
 Suken Shah, MD

9:08 AM–9:16 AM **How to Learn New Techniques as a Practicing PediPod and Incorporate Them in Practice**  
 Craig Ebersson, MD

## Saturday DAILY SCHEDULE

9:16 AM–9:24 AM **Personal Best: Thoughts on Peak Performance and Overcoming Jet Lag**  
Suken Shah, MD

9:25 AM–9:35 AM **Discussion and Wrap Up**  
Moderator:  
Suken Shah, MD

### CONCURRENT SESSION 4

8:05 AM–9:35 AM **Coral Sea**



#### CP Hip Surveillance and CP-Like Conditions

**Moderator: M. Wade Shrader, MD**  
**eModerator: Benjamin Shore, MD**

Perspectives of hip surveillance in CP and CP-like conditions, and discussion of Upper Extremity Surgical Indications and how HSP and Autism overlap with CP

8:05 AM–8:10 AM **Intro: It Takes a Village**  
M. Wade Shrader, MD

8:11 AM–8:16 AM **Hip Surveillance—Lessons Learned from Launching a North American Surveillance Program**  
Kishore Mulpuri, MBBS, MS, MHSc, FRCSC

8:17 AM–8:22 AM **Hip Surveillance—European Perspective**  
Thomas Dreher, MD

8:23 AM–8:28 AM **Hip Surveillance—Should Patients Own their Data? HIPSCREEN**  
Vedant Kularni, MD

8:29 AM–8:42 AM **Case Discussions**  
Rachel Thompson, MD  
M. Wade Shrader, MD  
Kishore Mulpuri, MBBS, MS, MHSc, FRCSC  
Thomas Dreher, MD

8:43 AM–8:53 AM **Upper Extremity Surgery in CP: What Are the Indications?**  
Lindley Wall, MD, MSc

8:54 AM–9:03 AM **Autism and CP: What's the Overlap?**  
Rachel Thompson, MD

9:04 AM–9:14 AM **What's Different about HSP and CP?**  
Jason Howard, MD, FRCSC

9:15 AM–9:35 AM **Case Discussions**  
Benjamin Shore, MD  
Lindley Wall, MD, MSc  
Rachel Thompson, MD  
Jason Howard, MD, FRCSC

### CME BREAKOUT 4

9:40 AM–10:55 AM **Pacifica 3-5**



#### Essentials of Pediatric Orthopaedics III

**Moderator: Jeff Martus, MD, MS**

This session covers a variety of pediatric orthopaedic topics and is geared toward residents, fellows, and newer advanced practice providers who desire a strong foundational knowledge and strategy to synthesize clinical data into appropriate treatment plans.

9:40 AM–9:44 AM **Pediatric Idiopathic Back Pain: Practical Evaluation and Management**  
Michael Glotzbecker, MD

9:45 AM–9:49 AM **Scheuermann's Kyphosis: Diagnosis and Management**  
Jennifer Bauer, MD

**Saturday**  
**DAILY SCHEDULE**

9:50 AM–9:54 AM	<b>Scoliosis 101</b> Firoz Miyanji, MD, FRCSC
9:55 AM–9:59 AM	<b>Modern Brace Treatment of Scoliosis</b> Lindsay Andras, MD
10:00 AM–10:08 AM	<b>Discussion</b> Michael Glotzbecker, MD Jennifer Bauer, MD Firoz Miyanji, MD, FRCSC Lindsay Andras, MD
10:09 AM–10:14 AM	<b>Approach to the Patient With Osteogenesis Imperfecta</b> Jeff Martus, MD, MS
10:15 AM–10:20 AM	<b>Approach to the Patient With Osteopenia</b> Craig Ebersson, MD
10:21 AM–10:29 AM	<b>Discussion</b> Jeff Martus, MD, MS Craig Ebersson, MD
10:30 AM–10:35 AM	<b>Clubfoot 101: Keeping the Ponseti Program on Track</b> Jaime Rice Denning, MD
10:36 AM–10:41 AM	<b>Modern Shoes and Orthotics for Pediatric Foot Pathology</b> Maryse Bouchard, MD, MSc
10:42 AM–10:47 AM	<b>Approach to the Patient With Limb Deficiency</b> Philip McClure, MD
10:48 AM–10:55 AM	<b>Discussion</b> Jaime Rice Denning, MD Maryse Bouchard, MD, MSc Philip McClure, MD

**CME BREAKOUT 4**

**9:40 AM–10:55 AM**

**Coral Sea**



**Foundations in Hip Dysplasia: Get to Know the Villains**

**Moderator: Jonathan Schoenecker, MD, PhD**

Foundations in Hip Dysplasia: Get to Know the Villains” aims to equip IPOS® learners with an in-depth understanding of hip dysplasia in infants and toddlers. This session meticulously focuses on the pathoanatomy of dysplasia, bridging foundational knowledge with advanced clinical insights. It ensures participants are well-prepared to address the complexities of hip dysplasia in their practice. Through detailed exploration of both soft tissue and bony pathologies, the session fosters a comprehensive understanding of why these structures cause DDH and why these structures may prevent bracing, hinder a closed reduction, or necessitate addressing during an open reduction. Inclusive of both non-operative and operative treatment modalities, the session encourages interaction from a wide range of DDH practitioners. In addition to didactics, this session will feature interactive elements such as case studies, panel debates, and live Q&A to promote active participation and real-time engagement.

**9:48 AM–10:05 AM Foundations of Hip Anatomy: Normal Development and Milestones**

**9:48 AM–9:56 AM Normal Development: The Bones of the Hip**  
Jonathan Schoenecker, MD, PhD

**9:57 AM–10:02 AM Normal Development: The Muscles, Capsule, and Labrum**  
Kishore Mulpuri, MBBS, MS, MHSc, FRCSC

**10:03 AM–10:05 AM Discussion**  
Jonathan Schoenecker, MD, PhD  
Kishore Mulpuri, MBBS, MS, MHSc, FRCSC

**Saturday**  
**DAILY SCHEDULE**

**10:06 AM–10:17 AM Dysplasia: Extracapsular and Capsular Pathology**

10:06 AM–10:11 AM **The Muscles Are the Villain**  
Deborah Eastwood, FRCS

10:12 AM–10:17 AM **The Capsule Is the Villain**  
Ira Zaltz, MD

**10:18 AM–10:33 AM Dysplasia: Intra-capsular Pathology**

10:18 AM–10:23 AM **The Stuff on the Inside of the Joint Are Villains**  
Woody Sankar, MD

10:24 AM–10:29 AM **Case-Based Debate on Muscle vs. Capsule vs. Stuff on the Inside—The Primary Culprit in Treatment Resistance**  
Jonathan Schoenecker, MD, PhD

10:30 AM–10:33 AM **Discussion**  
Woody Sankar, MD  
Jonathan Schoenecker, MD, PhD  
Ira Zaltz, MD  
Deborah Eastwood, FRCS  
Kishore Mulpuri, MBBS, MS, MHSc, FRCSC

**10:34 AM–10:54 AM Dysplasia: The Role of the Femur and Acetabulum**

10:34 AM–10:39 AM **The Femur Version and Length Can Be the Villain**  
Simon Kelley, MBChB, PhD, FRCS

10:40 AM–10:45 AM **The Acetabulum Is the Villain**  
V. Salil Upasani, MD

10:46 AM–10:51 AM **Case-Based Debate on Femoral vs. Acetabular Deformities—Prioritizing Surgical Intervention**

Jonathan Schoenecker, MD, PhD

10:52 AM–10:54 AM **Discussion**  
Simon Kelley, MBChB, PhD, FRCS  
V. Salil Upasani, MD  
Jonathan Schoenecker, MD, PhD

10:54 AM–10:55 AM **Closing Remarks**  
Moderator: Jonathan Schoenecker, MD, PhD

**CME BREAKOUT 4**

**9:40 AM–10:55 AM Java Sea**



**Coronal and Transverse Malalignment in Pediatric Patellofemoral Instability**

**Moderator: Henry Ellis, MD**

This session aims to provide a comprehensive understanding of lower extremity deformities in pediatric patellofemoral instability, covering both diagnostic aspects and a range of treatment modalities with a focus on minimizing complications.

9:40 AM–9:42 AM **Opening Remarks**  
Moderator: Henry Ellis, MD

9:43 AM–9:48 AM **My 5 Tips For PFI Physical Evaluation**  
Crystal Perkins, MD

9:49 AM–9:54 AM **Lower Extremity Deformity Evaluation: What Is Normal and What Is Not?**  
Franck Accadbled MD, PhD

9:49 AM–9:54 AM **Discussion**  
Crystal Perkins, MD  
Franck Accadbled MD, PhD

Saturday

## DAILY SCHEDULE

10:01 AM–10:06 AM **Guided Growth and Patellar Stabilization: When and How?**  
Jennifer Beck, MD

10:07 AM–10:12 AM **Distal Femoral Osteotomy for Genu Valgum: My Preferred Technique**  
Alexandre Arkader, MD

10:13 AM–10:18 AM **Discussion**  
Jennifer Beck, MD  
Alexandre Arkader, MD

10:19 AM–10:24 AM **Femoral Derotational Osteotomies: When, Where, and How?**  
L. Reid Nichols, MD

10:25 AM–10:30 AM **Tibial Derotational Osteotomies: When, Where, and How?**  
David Podeszwa, MD

10:31 AM–10:36 AM **Discussion**  
L. Reid Nichols, MD  
David Podeszwa, MD

10:37 AM–10:42 AM **Treatment Options for Distal Realignment in the Skeletally Immature: What's Hot and What's Not?**  
Javier Masquijo, MD

10:43 AM–10:48 AM **Tibial Tubercle Osteotomy: How to Stay Out of Trouble**  
Kevin Shea, MD

10:49 AM–10:55 AM **Discussion**  
Javier Masquijo, MD  
Kevin Shea, MD

11:00 **Farewell Grab 'n Go**  
**Pre-Function West**

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## Foot & Ankle

### ePoster 1

#### Cast or Cut? What to Do with Toe Walkers.

**Katherine Wood, MD;** Monica Wells, MD;  
Mckenna Box, MD; David Chong, MD  
University of Oklahoma Health Science Center,  
Oklahoma City, OK

### ePoster 2

#### Clubfoot Deformity in an Inner-City Population: Risk Factors Associated with Recurrence

**Ahmed S. Khokhar, MD;** Ari R. Berg, MD,  
MBA; Alexis M. Driscoll, BS; John M. Varriano,  
BA; Brian Molokwu, BS; Hyewon Kim, MD;  
Folorunsho Edobor-Osula, MD, MPH  
Rutgers New Jersey Medical School  
Department of Orthopedics, Newark, NJ

### ePoster 3

#### Excision of Talocalcaneal Coalition Resection with Three-Dimensional Navigation

Jacob Schaefer, MD; **Quinn Johnson, MD;**  
Emil Varas-Rodriguez, MPH; Anthony Stans,  
MD; William Shaughnessy, MD; A. Noelle  
Larson, MD; Todd A. Milbrandt, MD, MS;  
Emmanouil Grigoriou, MD  
Mayo Clinic, Rochester, MN

## Hand & Upper Extremity

### ePoster 4

#### Fracture Patterns in Transitional Fractures of the Distal Radius

Mikaela Sullivan, MD; **Aliya Feroe, MD;** Anika  
Dutta, MD; Francis Baffour, MD; Nicholas  
Pulos, MD  
Mayo Clinic, Rochester, MN

### ePoster 5

#### Hanging On or Falling Off? Monitoring Post-Reduction Alignment of Metaphyseal and Diaphyseal Forearm Fractures

Keith Grega, BS; Margaret Higgins, MD;  
**Neil Jain, MD;** Robert Gomez, MD; Dustin A.  
Greenhill, MD, FAOA, FAAOS  
St. Luke's University Health Network,  
Bethlehem, PA

### ePoster 6

#### Long Term Comparison of Objective and Patient Reported Outcomes After Surgery for Madelung Deformity in Pediatric and Adult Patients

**Andrew F. Emanuels, MD;** Nicole Sanchez  
Figueroa MD, MS; Steven L. Moran, MD;  
Nicholas Pulos, MD  
Mayo Clinic, Rochester, MN

### ePoster 7

#### Prescribing Non-steroidal Anti- inflammatory Medications During Initial Management of Pediatric Fifth Metacarpal Fractures Does Not Impact The Ultimate Non-union Rate

Adam B. Thompson, BS; **Eugenia A. Lin, MD;**  
Jack M. Haglin, MD; Katelyn Koschmeder,  
MD; Judson W. Karlen, MD  
Mayo Clinic Arizona, Phoenix, AZ

## Hip

### ePoster 8

#### Assessing hip displacement on radiographs to predict Femoral Shortening Osteotomy in Developmental Dysplasia of the Hip

Clemente Hernández-Gómez, MD; **Ana Laura  
Arenas-Díaz, MD;** Erika Alejandrina Barrón-  
Torres, MD; Lorena Baldini-García, MD; Carlos  
Alfonso Guzmán-Martín, MD  
Shriners Hospitals for Children Mexico, Mexico  
City, Mexico



**ePoster 9**

**Mid-Term Outcomes After Treatment of Avascular Necrosis of the Femoral Head with Core Decompression and Bone Marrow Aspirate Concentrate and Platelet Rich Plasma Injection in Adolescents and Young Adults**

**Quinn Johnson, MD;** Emil Varas BS, MPH; Anthony Stans, MD; William Shaughnessy, MD; A. Noelle Larson, MD; Todd A. Milbrandt, MD, MS; Emmanouil Grigoriou, MD  
Mayo Clinic, Rochester, MN

**ePoster 10**

**The Ultimate Fate of the Contralateral Hip in Unilateral Slipped Capital Femoral Epiphysis: Index Prophylactic Treatment May Lead to Decreased Complications and Cost**

**Jack M. Haglin, MD, MS;** Eugenia Lin, MD; William S. Wood, MD; David M. Bennett, MD; Judson W. Karlen, MD; Jessica D. Burns, MD, MPH  
Mayo Clinic Arizona, Scottsdale, AZ

## Lower Extremity/Deformity

**ePoster 11**

**Asymmetry of Lower Limb Muscle Fatigue and Knee Wobble During a Wall Sit**

Madeline Lecker; **Mark Seeley, MD, FAAOS, FAOA, FACS;** Benjamin Wheatley PhD  
Bucknell University, Lewisburg, PA

**ePoster 12**

**Does a Knee Effusion in a Pediatric Patient Predict Relevant Pathology?**

Erik Dehkes, BS; Coleman Cush, BS; Jackson Kyser, BS; **Neil Jain, MD;** Brendan Smith, MD; Dustin A. Greenhill, MD, FAOA, FAAOS  
St. Luke's University Health Network, Bethlehem, PA

**ePoster 13**

**Does the Continuous Suprainguinal Fascia Iliaca Block Provide Equivalent Analgesia to Continuous Epidural Analgesia following Proximal Femoral Derotational Osteotomy for Symptomatic Intoeing?**

Zackary Correll, MS4; Lloyd Halpern, MD; **Ted Sousa, MD**  
Shriners Hospitals for Children Spokane, Spokane, WA

**ePoster 14**

**Follow-Up after Hemiepiphyodesis- Can We Do Better?**

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

**ePoster 15**

**Outcomes of Distal Tibia or Tibia and Fibula Osteotomy in the Treatment of Idiopathic Tibial Torsion**

**Sam Hovland, BS;** Jason Malone, DO  
Nemours Children's Hospital, Wilmington, DE

**ePoster 16**

**The Impact of Medial Patellofemoral Reconstruction Surgery on Gait Kinematics and Patient-Reported Outcomes in Pediatric Patellar Instability**

**Samantha Hill, MS2;** Mark McMulkin, PhD; Bryan Tompkins, MD; Jacob Carl, MD; Ted Sousa, MD  
Shriners Children's Hospital Spokane, Spokane, WA

**ePoster 17**

**Transverse Plane Kinematics Between Walking and Running Change Frequently for Children with Idiopathic In-Toeing or Out-Toeing**

**Mitchell Maniatopoulos, BS;** Ted Sousa, MD; Mark McMulkin, PhD  
Washington State University Elson S. Floyd College of Medicine, Edinburgh, United Kingdom

## Neuromuscular & Cerebral Palsy

### ePoster 18

**Fully Automated Measurement of Paediatric Cerebral Palsy Pelvic Radiographs using Machine Learning: External Validation using a National Surveillance Database**

**Katie Hughes, BSc, MBBS, MRCS,**

**PgCert1;** Claudia Lindner, PhD2; Jessenka Luzar, BSc 1; Jonathan Lang, BSc 1; Timothy Cootes, PhD 2; Daniel Perry, MBChB (Hons), MA(Oxon), PhD, FHEA, FRCS (Orth), FRCSEd (Ad Hominem) 3,4; Mark Gaston, MB BChir, MA (Cantab), FRCSEd (Tr&Orth) PhD1  
Royal Hospital for Children and Young People, Edinburgh, Scotland

### ePoster 19

**Influence of Plastic Surgery Closure on Infections After Posterior Spinal Fusion for Neuromuscular Scoliosis**

**Anuj Gupta, MD;** Mario Aycart, MD; Edward Caterson, MD; Sadettin Ciftci, MD; Christina Herrero, MD; Jason Howard, MD; Rachel Lenhart, MD; Suken Shah, MD; Michael Shrader, MD  
Nemours Children's Hospital, Wilmington, DE

## Practice Management

### ePoster 20

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

Scott J. Mahon, BS; Divya Talwar, PhD, MPH; Lee S. Haruno, MD; Eliza Buttrick, BA; Christine M. Goodbody, MD, MBE; John M. Flynn, MD; **Casey Kuka, BS;** Apurva S. Shah, MD, MBA  
The Children's Hospital of Philadelphia, Philadelphia, PA

### ePoster 21

**Estimating the Carbon Footprint of Scoliosis Surgery**

**Ravi Rajendra, MD;** Matthew Nguyen; Srikanth Mudiganty, MD; Meredith Warner, MD; R. Carter Clement, MD, MBA  
Louisiana State University Health Sciences Center, New Orleans, LA

### ePoster 22

**Geographic Location Significantly Impacts Academic Productivity of Pediatric Orthopaedic Surgeons**

**Michael K. Viggiano, BS;** Patrick M. Pema, BS; McKenzie A. Mayer, BS; Kevin M. Posner, BS; Alexander Rompala, MD; Suleiman Y. Sudah, MD; Avrum L. Joffe, MD  
Hackensack Meridian School of Medicine, Nutley, NJ

## Quality, Safety, & Value Indicators

### ePoster 23

**Hydrogen Peroxide Fogging Reduces Spinal Surgical Site Infections: A QSVI Project**

Lorena Floccari, MD; **Kenzie Lundqvist, BS;** Richard Steiner, PhD; Todd Ritzman, MD; Michael Bigham, MD, MBA  
Akron Children's Hospital, Akron, OH

### ePoster 24

**Perioperative Pathway for Spinal Fusion in Adolescent Idiopathic Scoliosis: A QI Project**

Lorena Floccari, MD; Michael Bigham, MD, MBA; **Kenzie Lundqvist, BS;** Matthew Holloway, MD; Alexandria Rundell, BS; Richard Steiner, PhD; Todd Ritzman, MD  
Akron Children's Hospital, Akron, OH

**ePoster 25**

**Sepsis Alerts: Distinguishing Sterile Inflammation from True Infection**

*Naadir Jamal, BA; Anoop Chandrashekar, BA; Brian Hou, BA; Courtney Baker, MD; Michael Burton, MD; Stephanie Moore-Lotridge, PhD; Jonathan Schoenecker, MD, PhD; Michael Burton, MD*

*Vanderbilt University Medical Center, Nashville, TN*

**ePoster 26**

**Social Determinants of Health Correlation with Severity and Hospital Outcomes in Pediatric Patients Treated for Acute Osteomyelitis**

*Avery Allen; Jason Malone, DO  
Nemours Children's Hospital, Orlando, FL*

**ePoster 27**

**The Efficacy of Educational Presentations in Pediatric Orthopaedics Clinic**

*Vivek M. Abraham, MD; Eric D. Shirley, MD  
Naval Medical Center, Portsmouth, VA*

**ePoster 28**

**The Impact of a Resident, Fellow, or Physician Assistant on Operative Time and 2 Complication Rate in Closed Reduction and Percutaneous Pin Fixation of Pediatric 3 Distal Humerus Supracondylar Fractures**

*Zachary Quanbeck, MD; Etasha Bhatt, MD; Alison Schiffern, MD; Deborah Quanbeck, MD  
Gillette Children's Specialty Healthcare, Saint Paul, MN*

**Spine**

**ePoster 29**

**Charleston versus Providence: Are all Scoliosis Bending Braces Created Equal?**

*Ravi Rajendra, MD; Laura Morales Leon; Connor A. Nyborg; Michael Cesarek, MS; Claudia Leonardi, PhD; R. Carter Clement, III, MD, MBA*

*Louisiana State University Health Sciences Center, New Orleans, LA*

**ePoster 30**

**Correlation of 3D Spinal Parameters to Pulmonary Function Tests in Adolescent Idiopathic Scoliosis**

*Omolola Fakunle, MD; Kenzie Lundqvist; Alexandria Rundell; Richard Steiner, PhD; Dr. Todd Ritzman, FAAOS, FAOA, MD; Lorena Floccari, MD*

*Cleveland Clinic Foundation, Cleveland, OH*

**ePoster 31**

**Examination of Social Determinants of Health and their Influence on Presentation and Outcomes among Patients Undergoing Surgery for Adolescent Idiopathic Scoliosis**

*Emily K. Vallee, BS; Maxwell M. Scott, BA; Christopher Lucasti, MD; Kevin Schauer, MD; Seth C. Baker, MS; Benjamin C. Graham, BS; David Kowalski, DO; Lauren M. Harte, MD; Allison S. Binkley, MD; Jeremy P. Doak, MD; Michael R. Ferrick, MD; Christopher L. Hamill, MD, MHA*

*Jacobs School of Medicine and Biomedical Sciences, University at Buffalo, Buffalo, NY*

**ePoster 32**

**Intraoperative Methadone Reduces Early Postoperative Opioid Intake After Idiopathic Scoliosis Surgery**

*Neil Jain, MD; Nigel Wang, MD; Lilian Quintana, BS; Olivia Hoy, BS; Anna Ng Pellegrino, MD; Dustin Greenhill, MD  
St. Luke's University Health Network, Bethlehem, PA*

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**ePoster 33**

**Less Time, Same Results: A New Focused Protocol for Magnetic Resonance Imaging in Presumed Idiopathic Scoliosis**

**Trevor Luck, MD;** Robert W. Gomez, MD; Nigel K. Wang, MD; David Jessen, BS; Dustin A. Greenhill, MD  
St. Luke's University Health Network, Bethlehem, PA

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**ePoster 34**

**Medicaid Reimbursement for Surgical Management of Early Onset Scoliosis in the United States is Lower than Medicare Reimbursement, and Highly Variable Across States**

**Jack M. Haglin, MD;** Adam Henderson, BS; Eugenia Lin, MD; Collin Braithwaite, MD; Katelyn Koschmeder, MD; David M. Bennett, MD; Judson W. Karlen MD  
Mayo Clinic Arizona, Scottsdale, AZ

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**ePoster 35**

**Outcomes of VEPTR as Definitive Treatment of Pediatric Scoliosis in Jehovah's Witnesses**

Shivan N. Chokshi, MD; Jace Bauer, DO; Ravi Rajendra, MD; Srikanth Mudiganty, MD; **William Accousti, MD**  
Louisiana State University, New Orleans, LA

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**ePoster 36**

**Preoperative Left Ventricular Ejection Fraction is a Strong Predictor of Delayed Extubation After Surgical Correction of Neuromuscular Scoliosis**

Hyewon Kim, MD; Mathew Weinstein, BS; Brian Molowku, BS; Ashok Para, MD; **Ahmed Khokhar, MD;** Alice Chu, MD; Neil Kaushal, MD  
Rutgers New Jersey Medical School  
Department of Orthopedics, Newark, NJ

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**ePoster 37**

**Providence Nighttime Bracing as an Effective Alternative to Treating Adolescent Idiopathic Scoliosis**

**Ani Kazanjian, MD, MPH;** Jared Hinton; Kenzie Lundqvist; Ryan Sefcik, MD; Todd Ritzman, MD; Lorena Floccari, MD  
Summa Health, Akron, OH

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**ePoster 38**

**Thoracolumbar Fractures in the Pediatric Patient**

Emily K. Vallee, BS; Maxwell M. Scott, BA; Christopher Lucasti, MD; David Kowalski, DO; Justin Bird, MD; Bilal Hasanspahic, MD; Dylan Lis, BS; Benjamin C. Graham, BS; **Lauren M. Harte, MD;** Jeremy P. Doak, MD; Joseph M. Kowalski, MD  
Jacobs School of Medicine and Biomedical Sciences, University at Buffalo, Buffalo, NY

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**ePoster 39**

**Use of Intra-operative Navigation is Becoming More Common in Posterior Spinal Fusion for Early Onset Scoliosis in the United States**

**Jack M. Haglin MD,** Eugenia Lin MD, Katelyn Koschmeder MD, Collin Braithwaite MD, David M. Bennett MD; Judson W. Karlen MD  
Mayo Clinic Arizona, Scottsdale, AZ

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**ePoster 40**

**Waterproof versus Non-waterproof Mehta Casting for Treatment of Infantile Idiopathic Scoliosis**

Kenzie D. Lundqvist, BS; **Pieter Wiemken, DO;** Simon Youssef; Alexandria Rundell, BS; Richard P. Steiner, PhD; Ryan E. Fitzgerald, MD; Brandon Ramo, MD; Todd F. Ritzman, MD; Pediatric Spine Study Group, Lorena V. Floccari, MD  
Akron Children's Hospital, Akron, OH

## Sports

### ePoster 41

#### Adolescent Concussion Injuries in Soccer: Trends in the United States From 2013 to 2023

Georgia R. Sullivan, MS; **Eugenia A. Lin, MD**; Alexander Hoffer, MD; Collin Braitwaite, MD; Meghan Richardson, MD; Anikar Chhabra, MD  
Mayo Clinic Arizona, Phoenix, AZ

### ePoster 42

#### Contemporary Characteristics of Pediatric Syndesmosis Injuries: Surgical Trends and Patient Factors

Adam Thompson, BS; Eugenia Lin, MD; Jack M. Haglin, MD, MS; Collin Braithwaite, MD; **Lane Moore, MD, MBA**; Joseph C. Brinkman, MD; Karan Patel, MD; Heather Menzer, MD  
Mayo Clinic Arizona, Phoenix, AZ

### ePoster 43

#### How Do Neighborhood Disparities Influence Shoulder Instability Lesion Severity and Timing of Care in Adolescents?

Dang-Huy Do, MD; James J. McGinley BS; Amareesa K. Robinson, BS; Eliza E. Lovrich, BS; Philip L. Wilson, MD; Henry B. Ellis, MD; **John E. Arvesen, MD**  
Scottish Rite for Children, Dallas, TX

### ePoster 44

#### Outcomes of Concentrated Bone Marrow Aspirate with Extracellular Matrix in Pediatric and Adolescent Patients with Capitellar Osteochondritis Dissecans

**Joshua T. Bram, MD**; Ruth H. Jones, BS; Taylor Cogsil, MD; Samuel A. Beber, MSc; Preston W. Gross, BS; Peter D. Fabricant, MD, MPH  
Hospital for Special Surgery, New York, NY

## Syndromes, Dysplasia & Genetic Conditions

### ePoster 45

#### Incidence and Economic Burden of Olecranon Fractures in Osteogenesis Imperfecta: A Retrospective Analysis

**Eugenia Lin, MD**; Adam Thompson, BS; Katelyn Koschmeder, MD; Collin Braithwaite, MD; Jack Haglin, MD, MS; Maegen Wallace, MD, MBA  
Mayo Clinic Arizona, Phoenix, AZ

### ePoster 46

#### Is Pavlik Harness Necessary for Infants with Mild Hip Dysplasia?

**Katherine Velicki, MD**; Amador Bugarin, MD; Faris Fazal, BS; Haley Smith, BS; Matthew Halsey, MD  
Oregon Health & Science University, Portland, OR

## Trauma

### ePoster 47

#### Differences in Treatment of Supracondylar Humerus Fractures Requiring Transfer Between Facilities

Shrey Nihalani, BS, BA; Harrison Reeves, BS; **Pearce W. Lane, MD**; Mack Padgett, MD; Gerald McGwin, PhD; Michael J. Conklin, MD; Kevin A. Williams, MD  
Children's of Alabama, Birmingham, AL

### ePoster 48

#### Does Routine Medial Pin Placement For Supracondylar Humerus Fracture Fixation Lead to Less Ulnar Nerve Issues

**Alexander Sanders, MD**; Eric Johnson, MD; McKenna Box, MD; William Puffinbarger, MD, FAOA  
University of Oklahoma, Oklahoma City, OK

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**ePoster 49**

**Hematoma Blocks in Pediatric Femoral Shaft Fractures**

**Carson Twiss, DO - PGY3;** *Jeremy Brown, DO - PGY4; Robert Umberhandt, MD Samaritan Health Services, Corvallis, OR*

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**ePoster 50**

**Operative Treatment of Pediatric Supracondylar Humerus Fractures Using Mini C-arm Fluoroscopy**

**Tyler R. Mange, MD;** *Anna M. Acosta, MD; Amy K. Williams, MD Miller Children's Hospital, New York, NY*

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**ePoster 51**

**Postless Distraction Technique for Intramedullary Nailing of Pediatric Femoral Fractures: Technique and Early Results**

**Sahand Fallahi, BS;** *Purav Brahmabhatt, MD, MS; Sivashanmugam Raju, MD Saint Louis University School of Medicine, Saint Louis, MO*

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**ePoster 52**

**Standardizing Supracondylar Humerus Operative Timing at an Academic Level 1 Trauma Center**

**Zachary R. Visco, MD;** *Zohair Zaidi, MD; Anthony Paterno, MD; Tanner Orders, MD; Landon Larabee, MD; Lukas Keil, MD; Joseph D. Stone, MD University of North Carolina, Chapel Hill, NC*

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**ePoster 53**

**Tibial Tuberosity Fracture: Is Prophylactic Fasciotomy Really Needed?**

**Parker Gleason, MS;** *Holman Taylor; Aly Fayed, MD; Steele Liles, MD; Hamdi Sukkarieh, MD University of Mississippi Medical Center, Jackson, MS*

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**ePoster 54**

**Timing of Radiographs Following Treatment of Pediatric Femoral Shaft Fractures**

**Kylie Shaw, MD;** *Patrick Carry, PhD; Madeline Hornfeck; Julie Sanders, MD Univeristy of Colorado, Aurora, CO*

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**ePoster 55**

**Trends and Outcomes of Surgical Intervention for Pediatric and Adolescent Tibial Spine Fractures**

**Adam Thompson, BS; Eugenia Lin, MD;** *Jack M. Haglin, MD, MS; Katelyn Koschmeder, MD; Sailesh V. Tummala, MD; Melissa Esparza, MD; Heather Menzer, MD Mayo Clinic Arizona, Phoenix, AZ*

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**ePoster 56**

**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; Philip A. Ashley, MD; Shawn R. Gilbert, MD; Michael Conklin, MD University of Alabama, Birmingham, AL*

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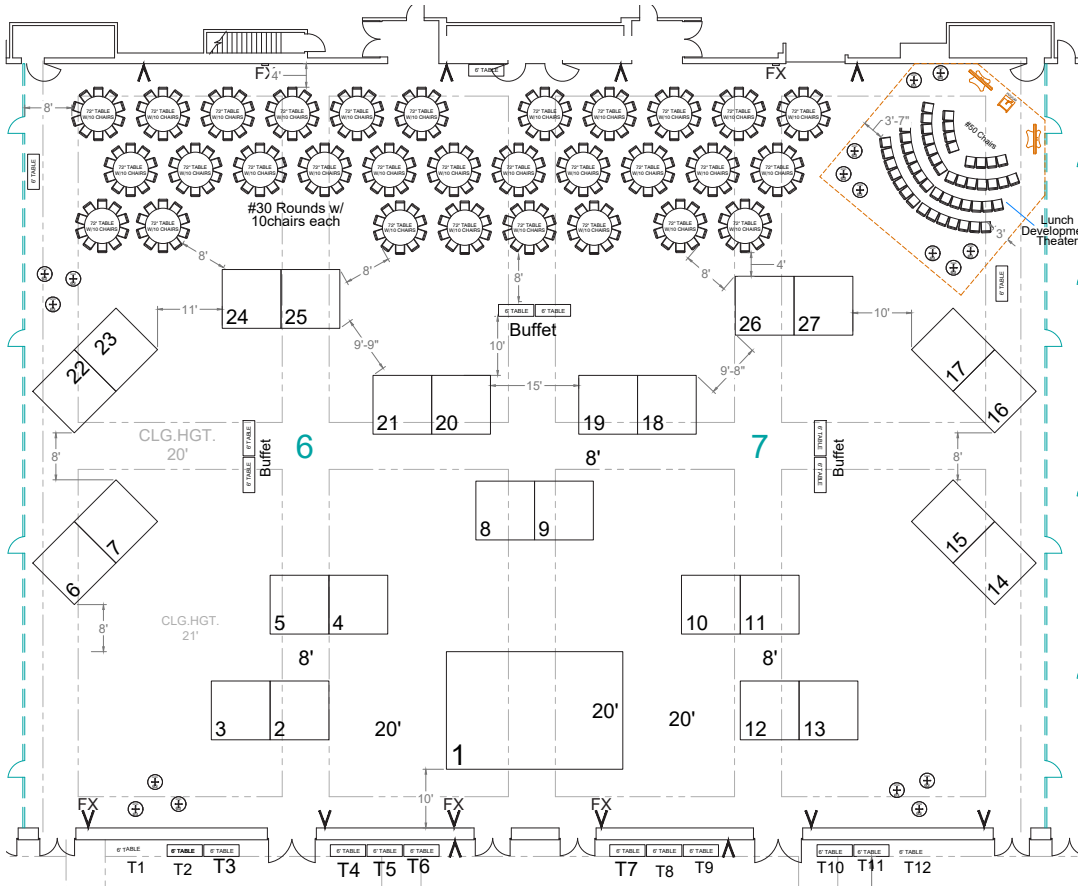
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Wednesday, December 4 5:10 PM–6:10 PM  
Happy Hour in the Hall

Thursday, December 5 7:00 AM–4:00 PM

Friday, December 6 7:00 AM–3:30 PM

Friday, December 6 2:55 PM–3:30 PM  
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## ARMSTRONG CHILDREN'S ORTHOPEDIC ALLIANCE

(TABLE 1)

The Armstrong Children's Orthopedic Alliance's mission is to elevate the standard of pediatric orthopedic care through advanced and innovative training for

healthcare providers. OrthoPediatrics® believed in the concept and graciously provided the critical financial support necessary to allow the Alliance to become established and develop. The Alliance honors Dr. Peter Armstrong and his over 50 years of tireless dedication to pediatric orthopedic education and quality outcomes for children.



## ARTHREX

(BOOTH 20)

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products and surgical procedures to advance knee arthroscopy for pediatrics worldwide.



## ASSOCIATION OF CHILDREN'S PROSTHETIC-ORTHOTIC CLINICS (ACPOC)

(TABLE 10)

The Association of Children's Prosthetic-Orthotic Clinics (ACPOC) provides a comprehensive resource of treatment options provided by professionals who serve children, adolescents, and young adults with various musculoskeletal differences. ACPOC is recognized as the worldwide leader of multidisciplinary rehabilitative care of children, adolescents, and young

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(BOOTH 10/11)

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### BALTIMORE LIMB DEFORMITY COURSE (TABLE 3)

The Baltimore Limb Deformity Course is intended for orthopedic surgeons, podiatrists, and allied health professionals who treat lower extremity deformities. The course features lectures, deformity planning sessions, innovative apps, case presentations

from experts, and an internationally renowned faculty. We introduce basic and advanced limb reconstruction concepts including limb alignment, limb lengthening, corrective osteotomies, and internal and external fixation. The 2024 Course was attended by over 230 clinicians from 30 foreign countries and 34 U.S. states.

Attendee Comments:

- “Excellent faculty, lovely venue with great food and tea/coffee, great industry support, and passionate table tutors. Overall, very well organised and would highly recommend.”
- “I regret not attending sooner; this is a course that ought to be included in the professional development of every orthopedic specialist, no matter their focus.”
- “This course is the best course I’ve ever been to!! I have never learned so much at any other course, every single lab, and every single lecture is worth every penny!”
- “This was a great opportunity to network and learn from many esteemed colleagues...”
- “Learned a lot from very knowledgeable faculty. The lab faculty was excellent.”



### BIOCOMPOSITES

(BOOTH 16)

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technology and range from bone grafts to matrices that can be used in the presence of infection.

We are proud to be driving improved outcomes across a wide range of clinical applications, in musculoskeletal infection, trauma, spine and sports injuries, for surgeons and patients alike.



### BIOMARIN PHARMACEUTICAL INC.

(BOOTH 6)

BioMarin is a world leader in developing and commercializing innovative therapies for rare diseases

driven by genetic causes. With a 20-year history, BioMarin remains steadfast to its original mission—to bring new treatments to market that will make a big impact on small patient populations. Visit [www.biomin.com](http://www.biomin.com) to learn more.



### BIOVENTUS

(BOOTH 17)

Bioventus’ differentiated portfolio represents innovative, next-generation solutions for spine surgery developed in partnership with leading physicians. We take a

consultative, value-based approach to help ensure optimized patient outcomes and improved surgeon experiences.

Contact us today to arrange your personalized demo: [SurgicalMarketing@Bioventus.com](mailto:SurgicalMarketing@Bioventus.com).



**BSN MEDICAL INC., AN ESSITY COMPANY**

**(BOOTH 25)**

Essity, a leading global hygiene & health company dedicated to improving well-being through products and solutions. Essentials for everyday life. Essity's

sustainable business model creates value for people and nature. Essity sells in approximately 150 countries under leading global brands TENA, Cutimed, Jobst, Leukoplast, Hydrofera Blue, Delta-Cast, Tork, and others.



**CLUBFOOT SOLUTIONS**

**(TABLE 9)**

Clubfoot Solutions changes lives by providing safe, comfortable, and affordable lowa Braces to children and donating to those in need. We are working to create a world where every child can walk with confidence and dignity, regardless of their circumstances. For every lowa Brace purchased, one is donated

to a child in need ensuring that children worldwide, regardless of circumstance, can live a life without the limitations brought on by clubfoot deformity.



**CURE INTERNATIONAL**

**(TABLE 4)**

CURE International is a global nonprofit network of children's hospitals (seven in Africa and one in the Philippines) providing surgical care in a compassionate, gospel-centered environment.



**GLOBUS MEDICAL, INC.**

**(BOOTH 21)**

Globus Medical, Inc. is a leading musculoskeletal technology company based in Audubon, PA. The company was founded in 2003 by an experienced group of engineers and business leaders who believed that significantly better patient outcomes in spine surgery were possible. Today, Globus Medical is

committed to creating products that enable surgeons to promote healing in patients with musculoskeletal disorders. At Globus Medical, listening to customers and responding with action is paramount, and the company is relentlessly focused on solving unmet customer and patient needs with world-class engineering and technology.



**HIGHRIDGE MEDICAL**

**(BOOTH 26)**

Highridge Medical is dedicated to restoring daily life for patients through comprehensive spinal solutions with a focus on education, training, and clinical support for surgeons. Along with cervical disc replacement,

vertebral body tethering, comprehensive spinal fixation, and fusion implants, Highridge offers minimally invasive procedural solutions and a comprehensive suite of biological solutions.

## Johnson & Johnson MedTech

movement for the millions of patients we serve. J&J MedTech's solutions, in specialties including joint reconstruction, trauma, extremities, craniomaxillofacial, spinal surgery and sports medicine, in addition to the VELYS™ Enabling Tech portfolio, are designed to advance patient care while delivering clinical and economic value.

## JOHNSON & JOHNSON MEDTECH

(BOOTH 4/5)

The orthopaedics solutions of J&J MedTech provides one of the most comprehensive orthopaedics portfolios in the world that helps heal and restore



## LIMB LENGTHENING AND RECONSTRUCTION SOCIETY (LLRS)

(TABLE 2)

The Limb Lengthening and Reconstruction Society (LLRS) is a professional organization of diverse orthopaedic surgeons, physicians, and allied health professionals devoted to

advancing the science of limb reconstruction for patients of all ages. This includes fostering research, stimulating scientific exchange, and collaboration to provide excellent clinical care in the arena of limb lengthening, limb reconstruction, extremity deformity correction, as well as complex fracture treatment. LLRS offers a traveling fellowship, its Specialty Day during the AAOS meeting, Essentials in Lower Extremity Reconstruction (ELER), and its scientific annual meeting.

Visit [llrs.org](http://llrs.org).

## Medtronic

## MEDTRONIC

(BOOTH 14/15)

Bold thinking. Bolder actions. We are Medtronic. We lead global healthcare technology and boldly attack the most challenging health problems facing humanity by searching out and finding solutions. Our Mission

— to alleviate pain, restore health, and extend life — unites a global team of 95,000+ passionate people. Powered by our diverse knowledge, insatiable curiosity, and desire to help all those who need it, we deliver innovative technologies that transform the lives of two people every second, every hour, every day. Expect more from us as we empower insight-driven care, experiences that put people first, and better outcomes for our world. In everything we do, we are engineering the extraordinary. Learn more at [www.medtronic.com](http://www.medtronic.com)



## MEDULOC

(BOOTH 28)

Meduloc's technology offers a strong, yet flexible intramedullary implant that provides both fracture reduction and rotational stability for small, long bone fractures. The Meduloc implant can be placed with

minimal soft tissue and articular cartilage disruption. Utilizing a minimally invasive and soft tissue sparing surgical approach, our device enables medical professionals to treat small bone fractures of the metacarpal, metatarsal, phalange, clavicle, radius, ulna and fibula in both adult and pediatric patients.

## The MHE Research Foundation



Wings of HOPE as we REACH for the  
CURE to Multiple Hereditary Exostoses

## MHE RESEARCH FOUNDATION

(TABLE 5)

The MHE Research Foundation is a nonprofit 501(c)(3) organization dedicated to the support of Researchers, Physicians & Families dealing with Multiple Hereditary Exostoses Syndrome (MHE) Multiple Osteochondroma Syndrome (MO) a rare genetic bone disease.

The MHE Research Foundation Five point mission is to REACH, advance and support the following.

**RESEARCH:** to assist and support researchers in order to one day discover a treatment / cure for MHE. Our foundation works hand in hand with researchers and physicians from around the world in this mission.

**EDUCATION:** to provide vital clinical informational guides & accompanying video benefiting both families and physicians.

**ADVOCACY:** bring awareness about this disease throughout the world.

**CLINICAL:** to provide resources directly to families enabling them to locate the medical care they require.

**HOPE:** the research being conducted on MHE/MO/HME & the informational resources will bring a better quality of life to the families affected by this disease around the world.



NEMOURS  
CHILDREN'S HEALTH

## NEMOURS CHILDREN'S HEALTH

(TABLE 7)

The Orthopedics team at Nemours Children's Health has been changing the lives of children from around the world since 1940. Our legacy of excellence continues to this day. And year after year, we're ranked among the nation's best. Across the organization, our programs consist of fellowship-trained pediatric orthopedic surgeons, non-operative physicians, and advanced practice providers that work alongside a highly-skilled staff of registered nurses, certified medical assistants, and orthopedic technicians – all focused solely on caring for pediatric orthopedic patients. We provide access to care close to home for families in convenient locations across the Delaware Valley, Central Florida and North Florida including our two freestanding children's hospitals in Wilmington, Del. and Orlando. We employ advanced technology to diagnose and treat an extensive range of conditions, from common to complex, offering comprehensive surgical and nonsurgical orthopedic care through our highly specialized programs including spine, sports medicine, skeletal dysplasia, osteogenesis imperfecta, clubfoot, complex hip disorders, fractures, and limb lengthening and reconstruction. Our orthopedic services extend beyond the basics to include customized, coordinated care for patients, including mobility devices, orthotics, pain management, physical and occupational therapy, prosthetics and more. Our team members are also actively involved in pediatric orthopedic research and clinical trials that not only impact our patients but help to improve the lives of children everywhere.

**NVIEW MEDICAL****(BOOTH 27)**

nView medical develops AI-enabled imaging and guidance systems specifically designed for pediatrics. Its flagship product, the nView s1 with insta-3D™ and true-map navigation™, is a breakthrough guidance system that provides

3D imaging in the operating room with very low levels of radiation. The nView s1 is the only system capable of providing 3D images from a single C-arm position and that images and registers in seconds. If you are looking for intraoperative technology that fits in your current workflow and that minimizes radiation, talk to the nView team at IPOS®!

**NYRC BRACE™ WITH SMART BRACE TECHNOLOGY™****(BOOTH 22)**

The **NYRC Brace™ with Smart Brace Technology™** is a tension-based custom-made three-dimensional back brace with wearable technology that promotes proper brace wear.

Each brace is highly customized to the patient's anatomy and its native sagittal profile to maximize coronal and sagittal balance improvements. The strapping mechanism with Smart Brace Technology™ is a system that allows the continuous monitoring of proper brace use, strap tension and patient balance.

Our company headquarters is located in New York and has a multidisciplinary team of experts who have extensive experience dealing with patients with scoliosis. Our skilled professional experts have received extensive training around the world so that they best meet the needs of our patients. It has been developed to provide, for each case, the most reliable and effective results during the conservative treatment of idiopathic scoliosis. [www.nyrcbrace.com](http://www.nyrcbrace.com)

**ORTHOFIX****(BOOTH 8/9)**

Orthofix is a global medical technology company headquartered in Lewisville, Texas. By providing medical technologies that heal musculoskeletal pathologies, we deliver exceptional experiences and

life-changing solutions to patients around the world. In particular, Orthofix offers a specialized limb reconstruction portfolio that addresses the most challenging orthopedic conditions worldwide in extremity deformity correction, limb lengthening, and complex fracture management for patients of all ages. In addition, Orthofix solutions include a broad portfolio of biologics, innovative spinal hardware, bone growth therapies, and a leading surgical navigation system.

To learn more, visit [Orthofix.com](http://Orthofix.com) and follow on LinkedIn.

**ORTHOPEDIATRICS****(BOOTH 1)**

Founded in 2006, OrthoPediatrics is an orthopedic company focused exclusively on advancing the field of pediatric orthopedics. As such it has developed the most comprehensive product offering to the pediatric

orthopedic market to improve the lives of children with orthopedic conditions. OrthoPediatrics currently markets 72 products that serve three of the largest categories within the pediatric orthopedic market. This product offering spans trauma and deformity, scoliosis, and sports medicine/other procedures. OrthoPediatrics' global sales organization is focused exclusively on pediatric orthopedics and distributes its products in the United States and over 70 countries outside the United States. For more information, please visit [www.orthopediatrics.com](http://www.orthopediatrics.com).

**ENABLING TECHNOLOGIES (BOOTH 12/13)**

Founded in 2006, OrthoPediatrics is an orthopedic company focused exclusively on advancing the field of pediatric orthopedics. As such it has developed the most comprehensive product offering to the pediatric

orthopedic market to improve the lives of children with orthopedic conditions. OrthoPediatrics currently markets 72 products that serve three of the largest categories within the pediatric orthopedic market. This product offering spans trauma and deformity, scoliosis, and sports medicine/other procedures. OrthoPediatrics' global sales organization is focused exclusively on pediatric orthopedics and distributes its products in the United States and over 70 countries outside the United States. For more information, please visit [www.orthopediatrics.com](http://www.orthopediatrics.com).

**OP SPECIALTY BRACING****(BOOTH 2/3)**

Founded in 2023 as a division of OrthoPediatrics, OrthoPediatrics Specialty Bracing is a company focused on transforming the lives of children with orthopedic conditions. We are committed to the infinite

idea of improving healthcare for children and improving the lives of their families and friends. Our approach involves offering specialized pediatric orthotic and prosthetic clinics across the country, including major Children's Hospitals, that treat a wide range of pediatric diagnosis. OP Specialty Bracing has become a house of brands with 17 different products that have set the standard of care in pediatric treatment for decades. OrthoPediatrics Specialty Bracing currently has 29 clinics spanning across 11 states and is expanding yearly nationally and internationally. Pediatric care is not just something we do—it's our passion, our purpose, and our promise to the kids we serve. For more information please visit: [opsb.com](http://opsb.com)





## OSF HEALTHCARE

(TABLE 8)

OSF HealthCare is an integrated health system that was founded by The Sisters of the Third Order of St. Francis. Headquartered in Peoria, Illinois, OSF HealthCare employs almost 24,000 Mission Partners in 159 locations, including 16 hospitals, with 2,134 licensed beds, 39 urgent care locations, and two colleges of nursing throughout Illinois and Michigan. The OSF HealthCare physician network employs more than 2,050 primary care, specialist and advanced practice providers. OSF HealthCare, through OSF Home Care Services, operates an extensive network of services, including eight home health agencies, eight hospice agencies including an inpatient hospice home, home infusion pharmacy and home medical equipment. It also owns Pointcore, Inc., composed of health care-related businesses; OSF HealthCare Foundation, the philanthropic arm for the organization; and OSF Ventures, which provides investment capital for promising health care innovation startups. The Ministry Services office in Peoria provides corporate management services, as well as direction, consultation and assistance to the administration of the health care facilities.



## PACIRA BIOSCIENCES, INC. (BOOTH 24)

Pacira BioSciences, Inc. is the industry leader in its commitment to non-opioid pain management and regenerative health solutions to improve patients' journeys along the neural pain pathway.

To learn more about Pacira, including the corporate mission to reduce overreliance on opioids, visit [www.pacira.com](http://www.pacira.com).



## PEDIATRIC ORTHOPAEDIC PRACTITIONERS SOCIETY (POPS)

(TABLE 11)

The Pediatric Orthopaedic Practitioners Society (POPS) is a non-profit, volunteer-run organization, established in 2005 that exists to advance and enhance the care provided by the Advanced Practice Nurse and Physician Assistant specializing in Pediatric Orthopaedics. By bringing members together we aim to support continuing education, specialized training, research collaboration, mentoring, networking and promotion of our role.



Check out the **APP Sessions** during the week:

Wednesday, December 4: 12:45 PM–2:00 PM

Thursday, December 5: 2:30 PM–4:00 PM

Friday, December 6: 8:05 AM–9:20 AM

## SCOTTISH RITE



### SCOTTISH RITE FOR CHILDREN (TABLE 6)

Scottish Rite for Children is a world-renowned leader in the treatment of pediatric orthopedics, such as scoliosis, clubfoot, hand differences, hip

disorders, limb lengthening and reconstruction, sports injuries and fractures, and related arthritic, neurological and learning disorders. Through groundbreaking research and leading-edge education, our experts advance pediatric orthopedic care, serving as the model to emulate for practitioners around the world. *U.S. News & World Report* ranks Scottish Rite for Children No. 2 in the nation for pediatric orthopedic care in collaboration with Children's Medical Center Dallas and UT Southwestern Medical Center. An eight-time recipient of the NRC Health Excellence in Patient Experience Award, Scottish Rite for Children has been giving children back their childhood for more than a century.



**Shriners  
Children's™**

### SHRINERS CHILDREN'S™

(BOOTH 7)

Shriners Children's™ is a leader in providing care for orthopedic conditions, burn injuries, spinal cord injuries, and other spine disorders, and rehabilitation, sports injuries, and craniofacial conditions. We also offer specialized services, including orthotics and

prosthetics and motion analysis. We strive to provide the care and support our patients need to reach their goals and discover their full potential. All care and services are provided regardless of the families' ability to pay or insurance status.

## SIEMENS Healthineers

### SIEMENS HEALTHINEERS

(BOOTH 23)

**Multitom Rax – Advancing pediatric imaging through innovation**

Our commitment to children's well-being is

unwavering, and we're here to revolutionize the way pediatric care is delivered.

#### Addressing dose concerns

Experience distortion-free, magnification-free slot scanning technology with our True2Scale Bodyscan<sup>1</sup>. It delivers precise full-body images while prioritizing low dose.

- Open and child-friendly design
- Enhanced patient coverage: Acquire slot scan images in standing, seated, or lying positions
- Uncompromised diagnostic accuracy
- Fast and efficient examinations

## stryker

### STRYKER

(BOOTH 18/19)

Stryker is a global leader in medical technologies and, together with its customers, is driven to make healthcare better. The company offers innovative products and services in MedSurg, Neurotechnology,

Orthopaedics and Spine that help improve patient and healthcare outcomes. Alongside its customers around the world, Stryker impacts more than 130 million patients annually. More information is available at [www.stryker.com](http://www.stryker.com).

## POSNA Membership

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

**Diversity Statement:** The Pediatric Orthopaedic Society of North America (POSNA) values diversity, and we are committed to creating an equitable and inclusive environment for all of our current and future members. We strive to eliminate healthcare disparities and deliver the highest quality orthopaedic care to all the children and families we serve. Please visit [posna.org/our-society](https://posna.org/our-society) to view the full statement.

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

### Benefits:

- Reduced registration fees for Annual Meeting and International Pediatric Orthopaedic Symposium (IPOS®)
- \$400,000+ in research awarded annually
- Committee Appointment Program (CAP) – make your voice heard in 30+ committees
- Participate in the POSNA-Sponsored Traveling Fellowship Program
- Reduced subscription rate to the *Journal of Pediatric Orthopaedics*
- Become a mentor or mentee through the Mentorship Program
- Be a part of the POSNA Safe Surgery Program (PSSP)

**Become a POSNA Member and Advance Your Pediatric Orthopaedic Career!**

Applications for 2025 are closed. Stay tuned for more information on membership for 2026.

Learn more about POSNA membership at [posna.org/Members/Join](https://posna.org/Members/Join)

## Additional Education

- POSNA.org Study Guide – over 100 topics available!
- *JPOSNA*® - The official Journal of POSNA.
- POSNAcademy - POSNA's video education platform featuring webinars, tutorials, past meeting content, podcasts, and more!
- The Resident Review blog

## Follow us

[POSNA.org](https://posna.org)

[OrthoKids.org](https://OrthoKids.org)

[JPOSNA.com](https://JPOSNA.com)

[POSNAcademy.org](https://POSNAcademy.org)



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It shall be the policy of the Pediatric Orthopaedic Society of North America (POSNA) to be in strict compliance with all Federal and State Antitrust laws, rules, and regulations. Therefore, these policies and procedures apply to all membership, board, committee, and all meetings attended by representatives of POSNA.

Discussions at POSNA meetings often cover a broad range of topics pertinent to the interests or concerns of orthopaedic surgeons. As a general rule, except as noted below, discussions at POSNA meetings can address topics without raising antitrust concerns if the discussions are kept scrupulously free of even the suggestion of private regulation of the profession. However, a number of topics that might be (and have been) discussed at POSNA meetings may raise significant complex antitrust concerns. These include:

- Membership admissions, rejections, restrictions, and terminations;
- Method of provision and sale of POSNA products and services to non-members;
- Restrictions in the selection and requirements for exhibitors at the POSNA Annual Meeting or in CME activities;
- Collecting and distributing certain orthopaedic practice information, particularly involving practice charges and costs;
- Obtaining and distributing orthopaedic industry price and cost information;
- Professional certification programs;
- Group buying and selling; and
- Inclusions or exclusion of other medical societies in organizational activities or offerings.

When these and related topics are discussed, the convener or members of the POSNA group should seek counsel from its General Counsel.

POSNA urges its board, committees, and other groups not to participate in discussions that may give the appearance of or constitute an agreement that would violate the antitrust laws. Notwithstanding this reliance, it is the responsibility of each POSNA board or committee member to avoid raising improper subjects for discussion. This policy has been prepared to ensure that POSNA members and other participants in POSNA meetings are aware of this obligation.

The “Do Not’s” and “Do’s” presented below highlight only the most basic antitrust principles. POSNA members and others participating in POSNA meetings should consult with the General Counsel in all cases involving specific questions, interpretations, or advice regarding antitrust matters.

### **Do Not’s**

1. Do not, in fact or appearance, discuss or exchange information regarding:
  - a. Individual company prices, price changes, price differentials, mark-ups, discounts, allowances, credit terms, etc. or any other data that may bear on price, such as costs, production, capacity, inventories, sales, etc.
  - b. Raising, lowering, or “stabilizing” orthopaedic prices or fees;
  - c. What constitutes a fair profit or margin level;
  - d. The availability of products or services; or
  - e. The allocation of markets, territories or patients.
2. Do not suggest or imply that POSNA members should or should not deal with certain other persons or companies.
3. Do not foster unfair practices regarding advertising, standardization, certification or accreditation.

4. Do not discuss or exchange information regarding the above matters during social gatherings, incidental to POSNA-sponsored meetings.
5. Do not make oral or written statements on important issues on behalf of POSNA without appropriate authority to do so.

### **The Do's**

1. Do adhere to a prepared agenda for all POSNA meetings. It is generally permissible for agendas to include discussions of such varied topics as professional economic trends, advances, and problems in relevant technology or research, various aspects of the science and art of management, and relationships with local, state, or federal governments.
2. Do object whenever meeting summaries do not accurately reflect the matters that occurred.
3. Do consult with General Counsel on all antitrust questions relating to discussions at POSNA meetings.
4. Do object to and do not participate in any discussions or meeting activities that you believe violate the antitrust laws; dissociate yourself from any such discussions or activities and leave any meeting in which they continue.

### **Special Guidelines for Collecting and Distributing Information**

The collection and distribution of information regarding business practices is a traditional function of associations and is well-recognized under the law as appropriate, legal, and consistent with the antitrust laws. However, if conducted improperly, such information gathering and distributing activities might be viewed as facilitating an express or implied agreement among association members to adhere to the same business practices. For this reason, special general guidelines have developed over time regarding association's reporting on information collected from and disseminated to members. Any exceptions to these general guidelines should be made only after discussion with General Counsel. These general guidelines include:

1. Member participation in a statistical reporting program is voluntary. A statistical reporting program should be conducted without coercion or penalty. Non-members should be allowed to participate in a statistical reporting program if eligible; however, if a fee is involved, non-members may be charged a reasonably higher fee than members.
2. Information should be collected via a written instrument that clearly sets forth what is being requested.
3. The data that is collected should be about past transactions or activities, particularly if the survey deals with prices and price terms (including charges, costs, wages, benefits, discounts, etc.), it should be historic, i.e., more than three months old.
4. The data should be collected by either POSNA or an independent third party not connected with any one member.
5. Data on individual orthopaedic surgeons should be kept confidential.
6. There should be a sufficient number of participants to prevent specific responses or data from being attributable to any one respondent. As a general rule, there should be at least five respondents reporting data upon which any statistic or item is based, and no individual's data should represent more than 25% on a weighted average of that statistic or item.
7. Composite/aggregate data should be available to all participants—both members and non-members. The data may be categorized, e.g., geographically, and ranges and averages may be used. No member should be given access to the raw data. Disclosure of individual data could serve to promote uniformity and reduce competition.
8. As a general rule, there should be no discussion or agreement as to how members and non-members should adjust, plan, or carry out their practices based on the results of the survey. Each member should analyze the data and make business decisions independently.

## Privacy Policy – Use Of Personal Information

IPOS® 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's meeting. 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 IPOS®, 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.

## Language

English is the official language of IPOS®.

## 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 IPOS®. 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 IPOS® 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.

## Insurance/Liabilities

POSNA will not be held liable for personal injuries or for loss or damage to property incurred by participants or guests at IPOS®,

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 IPOS® arising from natural, political, social, or economic events, or other unforeseen incidents beyond its control. Registration of a participant implies acceptance of this condition.

## Disclaimer

The material presented at IPOS® 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.

## 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



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INTERPROFESSIONAL CONTINUING EDUCATION

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## Physicians

### ACCME Credit Designation Statement

Amedco LLC designates this live activity for a maximum of 18 *AMA PRA Category 1 Credits*™ for physicians. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## Athletic Trainers

### BOC Credit Designation Statement

Amedco LLC is approved by the Board of Certification, Inc. to provide continuing education to Athletic Trainers (ATs). This

program is eligible for a maximum of 18 Category A hours/CEUs. ATs should claim only those hours actually spent in the educational program.

### 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 or her 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 IPOS® 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.

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and/or distribute any such recording, in whole or in part, in any manner or medium now known or hereafter developed (including without limitation, print publications, DVDs, and internet) for any purpose that POSNA may deem appropriate, including without limitation promotional or advertising efforts; and (iii) use your name and biographical material in connection with any such recordings or uses. You understand and agree that your image may be edited, copied, exhibited, published, or distributed and waive the right to inspect or approve the finished product wherein your likeness appears. You understand that POSNA will be the owner of all such recordings and uses. Additionally, you waive any right to royalties or compensation arising from or related to the use of your image or recording. There is no time limit on the validity of this release nor is there any geographic limitation on where these materials may be distributed.

### No Cameras or Video Cameras

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

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**orthoKids**  
PEDIATRIC ORTHOPAEDIC SOCIETY  
OF NORTH AMERICA

**A website for kids & parents to learn about pediatric orthopaedic conditions, injury prevention, & treatment.**

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## **Future POSNA Annual Meetings**

**May 14-16, 2025  
Las Vegas, NV**

**May 6-8, 2026  
Orlando, FL**

## **Future IPOS® Meetings**

**December 2-6, 2025  
Orlando, FL**

**December 1-5, 2026  
Orlando, FL**

### **IPOS® Mission Statement**

To provide the highest quality, most comprehensive, and most interactive pediatric orthopaedic education to learners and practitioners of all levels.

### **IPOS® Vision Statement**

Through our inspiring international faculty, innovative programming, and vibrant interactions among all attendees, IPOS® aspires to be the best pediatric orthopaedic educational event in the world.



**POSNA**  
PEDIATRIC ORTHOPAEDIC SOCIETY  
OF NORTH AMERICA