

19th ANNUAL IPOS[®]

International Pediatric Orthopaedic Symposium

December 5-9, 2023 | Orlando, FL

Suken Shah, MD, FAOA, FAAOS
Co-Director

Derek Kelly, MD, FAOA, FAAOS
Co-Director



IPOS[®] aspires to be the
best pediatric orthopaedic
educational event in the world

Final Program



POSNA
PEDIATRIC ORTHOPAEDIC SOCIETY
OF NORTH AMERICA



The Pediatric Orthopaedic Society of North America gratefully acknowledges these sponsors for their generous financial support in 2023.

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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

Registration

Sponsored by Stryker

Tuesday, December 5	3:00 PM–7:00 PM
Wednesday, December 6	7:00 AM–5:00 PM
Thursday, December 7	7:00 AM–3:00 PM
Friday, December 8	7:00 AM–3:00 PM
Saturday, December 9	8:00 AM–10:00 AM

Exhibit Hall

Join your colleagues in the Exhibit Hall for networking and discovery of new pediatric orthopaedic products and services. Meals and breaks will be served in the Exhibit Hall.

Wednesday, December 6	7:00 AM–5:00 PM
Wednesday, December 6 Happy Hour in the Hall	2:35 PM–3:35 PM
Thursday, December 7	7:00 AM–4:00 PM
Friday, December 8	7:00 AM–3:00 PM



Residents and Fellows: Programming just for you!

Case Competition: Hear the faculty discuss your cases and put your knowledge to the test during the Arabella Leet session!

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

Lunchtime Career Development: Join IPOS® faculty, Wednesday–Friday, for a 30-minute case review and discussion.

Top Gun: The 11th annual surgical skills competition allows you to showcase your maverick skill set (by invitation only).

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.

Craft Your Own IPOS® Adventure with Over 30 Breakout Sessions and 11 Different Topic Tracks Featuring:

- Focused lectures and engaging case discussions
- Surgical skills demonstrations
- Industry-sponsored sessions on cutting edge techniques
- Small group discussions
- Essentials Session on how to teach and learn Pediatric Orthopaedic Surgery

Hands-on Sessions You Don't Want to Miss:

- On the Go Sessions: Halo, Pavlik, and Ponseti
- Pelvic Osteotomies I and II
- Pinning an Elbow
- Ponseti Casting and Congenital Vertical Talus

IPOS® Lounge

Network, Relax, and
Recharge

Located in the back of
the Exhibit Hall

NEW for 2023

- **The Future Direction of AI and ML in Peds Ortho**
- **Mid-Career Programming**
 - Leadership Institute
 - CMS Coding Update
 - ABOS Re-Certification Changes
 - Changing Jobs Mid-Career
- **General Session 2: Syndromes Managed by Multi-Disciplinary Teams**
 - Focuses on topics like AMC, OI, and CTD



**Suken Shah, MD,
FAOA, FAAOS**
Co-Director



**Derek Kelly, MD,
FAOA, FAAOS**
Co-Director

IPOS® 2023 Faculty

Lindsay Andras, MD
Alexandre Arkader, MD
Donald Bae, MD*
Pablo Castañeda, MD
Robert Cho, MD, FAAOS*
Jon Davids, MD
Craig Ebersson, MD, FAOA
Eric Edmonds, MD*
Henry Ellis, MD
Nicholas Fletcher, MD
John (Jack) Flynn, MD*
Theodore Ganley, MD
Michael Glotzbecker, MD
Christine Ho, MD
Mininder Kocher, MD, MPH*
Jennifer Laine, MD*
John Lovejoy III, MD, FAAOS
Scott Luhmann, MD
Jeff Martus, MD, MS*
James McCarthy, MD
Philip McClure, MD*
Thomas McPartland, MD
Todd Milbrandt, MD*
L. Reid Boyce Nichols, MD, FAOA, FAAOS*
Kenneth Noonan, MD, MHCDS
Matthew Oetgen, MD, MBA
David Podeszwa, MD
Anthony Riccio, MD
Julie Samora, MD, PhD*
Wudbhav (Woody) Sankar, MD*
Jeffrey Sawyer, MD
Jonathan Schoenecker, MD, PhD*
Kevin Shea, MD
Benjamin Shore, MD, MPH, FRCSC
M. Wade Shrader, MD*
Daniel Sucato, MD, MS
Vishwas Talwalkar, MD, FAAOS
V. Salil Upasani, MD
Michael Vitale, MD, MPH*
Burt Yaszay, MD

International Faculty

Alaric Aroojis, MS, D'Ortho, DNB
Maryse Bouchard, MD, MSc*
Ron El-Hawary, MD, MSc, FRCS(C)*
Sandra Jarvis-Selinger, PhD
Simon Kelley, MBChB, PhD, FRCS
Javier Masquijo, MD*
Firoz Miyanji, MD, FRCSC*
Kishore Mulpuri, MBBS, MS, MHSc, FRCSC
Manoj Ramachandran, MD, FRCS (Orth)
Stefan Parent, MD, PhD, FRCS(C)
Daniel Perry, MA(Oxon), PhD, FRCS (Orth)
Christof Radler, MD

Instructors

Jennifer Bauer, MD, MS
Andrea Bauer, MD
Jaysson Brooks, MD
Jaime Rice Denning, MD
Corinna Franklin, MD
Jeanne Franzone, MD
Raymond Liu, MD
Craig Louer Jr., MD
Mihir Thacker, MD
Rachel Thompson, MD
Kali Tileston, MD, FAAOS
Lindley Wall, MD, MSc
Michelle Welborn, MD

Advanced Practice Provider (APP) Faculty

John Ansiaux PA-C
Adriana Glazier, PA-C
Lauren Hewins, PA-C
Ben Johnson, PA-C
Jessica King, PA-C*
Ray Kleposki MSN, CPNP
Valerie Parrish, PA-C
Caitlin Parsons, PA-C
Christopher Tremonti, PA-C
Tracy War Hoover, MSN, APRN, CPNP*



APP Advanced Practice Providers

Wednesday, December 6

3:40 PM–4:40 PM **Oceana Grand 2-5**
APP CME Breakout 1: What You See on Sports Center–Top Injuries in the Adolescent Athlete

Thursday, December 7

10:35 AM–11:35 AM **Oceana Grand 2-5**
APP CME Breakout 2: Put Me in Coach–Injury Prevention and Return to Sports After an Injury

Friday, December 8

8:05 AM–9:35 AM **Banda Sea**
APP CME Breakout 3: Respect the Past, Embrace the Future–Recent Advances in Treatment Options for Common Sports Injuries in the Adolescent Athlete

 **Essentials of Pediatric Orthopaedics**

Wednesday, December 6

10:35 AM–11:50 AM **Pacifica 11-12**
CME Breakout 1: Essentials of Pediatric Orthopaedics I

Thursday, December 7

2:45 PM–2:00 PM **Pacifica 11-12**
CME Breakout 2: Essentials of Pediatric Orthopaedics II

Saturday, December 9

10:05 AM–11:20 AM **Pacifica 8-10**
CME Breakout 4: Essentials of Pediatric Orthopaedics III

 **Foot**

Wednesday, December 6

1:30 PM–2:15 PM **South China Sea**
Ponseti on the Go (Hands-on)

Thursday, December 7

12:45 PM–2:00 PM **Banda Sea**
CME Breakout 2: Ponseti Casting (Hands-on)
2:30 PM–4:00 PM **Oceana Grand 6-7**
Concurrent Session 2: When a Clubfoot That Isn't Just a Clubfoot–Managing Clubfeet in Infants with Syndromes and Multiple Deformities

Friday, December 8

3:00 PM–4:15 PM **Banda Sea**
CME Breakout 3: Congenital Vertical Talus: Topic Update and Hands-on Casting (Hands-on)

 **General Pediatric Orthopaedics/Trauma**

Wednesday, December 6

8:05 AM–10:05 AM **Oceana Grand 6-7**
General Session 1: Trauma, Fractures, & Complications

10:35 AM–11:50 AM **Pacifica 8-10**
CME Breakout 1: Tumors and Infections

Thursday, December 7

8:05 AM–10:05 AM **Oceana Grand 6-7**
General Session 2: Combination Problems in Syndromic Children–AMC, OI, and CTD

Friday, December 8

12:15 PM–2:15 PM **Oceana Grand 6-7**
General Session 3: Author's Preferred Techniques

Saturday, December 9

10:05 AM–11:20 AM **Pacifica 11-12**
CME Breakout 4: Reconstruct, Rotate, or Amputate? Difficult Decisions in Limb Reconstruction

 **Hand & Upper Extremity**

Wednesday, December 6

10:35 AM–11:50 AM **Banda Sea**
CME Breakout 1: Pinning an Elbow (Hands-on)

Thursday, December 7

2:30 PM–4:00 PM **Oceana Grand 6-7**
Concurrent Session 2: Upper Extremity and Sports Case-Based Learning

Saturday, December 9

10:05 AM–11:20 AM **Java Sea**
CME Breakout 4: Pediatric Upper Limb Surgery: Concepts, Cases, and Controversies



Hip

Wednesday, December 6

10:35 AM–11:50 AM **Timor Sea**

CME Breakout 1: Pelvic Osteotomies Part 1:
Salter, Pemberton, Dega, San Diego

Thursday, December 7

12:45 PM–2:00 PM **Pacifica 8-10**

CME Breakout 2: Challenging Hips in the
Elementary Years

3:00 PM–3:45 PM **South China Sea**

Pavlik on the Go (Hands-on)

Friday, December 8

8:05 AM–9:35 AM **Oceana Grand 6-7**

Concurrent Session 3: Femoroacetabular
Impingement: Where Are We in 2023?

3:00 PM–4:15 PM **Timor Sea**

CME Breakout 3: Pelvic Osteotomies Part 2:
Triple, PAO (Hands-on)



Lower Extremity/Deformity

Saturday, December 9

8:05 AM–9:35 AM **Coral Sea**

Concurrent Session 4: Managing Congenital
Differences Below the Knee



Mid-Career

Friday, December 8

8:05 AM–9:35 AM **Pacifica 3-5**

Concurrent Session 3: Course for Mid-Career
Surgeons

3:00 PM–4:15 PM **Pacifica 3-5**

CME Breakout 3: Course for Mid-Career Surgeons

Saturday, December 9

7:30 AM–9:30 AM **Pacifica 8-10**

Concurrent Session 4: Course for Mid-Career
Surgeons



Neuromuscular & Cerebral Palsy

Wednesday, December 6

1:00 PM–2:30 PM **Oceana Grand 6-7**

Concurrent Session 1: Contemporary
Management of the Complex Neuromuscular Child

Thursday, December 7

12:45 PM–2:00 PM **Coral Sea**

CME Breakout 2: Gait Analysis and Cerebral Palsy
Interactive Session



Spine

Thursday, December 7

12:45 PM–2:00 PM **Pacifica 3-5**

CME Breakout 2: Early Onset Scoliosis (Big Curves
in Little Kids) and Neuromonitoring Challenges

3:00 PM–3:45 PM **South China Sea**

Halo on the Go (Hands-on)

Friday, December 8

8:05 AM–9:35 AM **Oceana Grand 2-5**

Concurrent Session 3: Neuromuscular Scoliosis
and Syndromic Spine

3:00 PM–4:15 PM **Pacifica 8-10**

CME Breakout 3: Growth Modulation of the Spine



Sports

Wednesday, December 6

10:35 AM–11:50 AM **Oceana Grand 2-5**

CME Breakout 1: Pediatric Sports Medicine
Debates

1:00 PM–2:30 PM **Oceana Grand 2-5**

Concurrent Session 1: Success and Failure in
Pediatric Sports Medicine












WiFi
Information

Conference WiFi:
IPOS2023

Password:
orlando2023



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

Tuesday, December 5

3:00 PM–7:00 PM	Registration
4:00 PM–5:30 PM Oceana Grand 6-7	Arabella Leet Resident and Fellow Forum* (Sponsored by Shriners Children's™)
5:35 PM–6:35 PM Oceana Grand 6-7	Career Planning and Professional Development for Residents and Fellows* (Sponsored by Medtronic)
6:35 PM–6:50 PM Oceana Grand 6-7	Mingle with Medtronic
7:00 PM–8:15 PM Oceana Grand 2-5	Industry Pre-Course* (Sponsored by OrthoPediatrics)
8:20 PM–9:20 PM Java Sea	Industry-Sponsored Reception (Sponsored by OrthoPediatrics)

Wednesday, December 6


7:00 AM–5:00 PM	Registration
7:00 AM–8:00 AM Pacifica 6-7	Breakfast and Exhibits
8:05 AM–10:05 AM Oceana Grand 6-7	General Session 1: Trauma, Fractures, & Complications
10:10 AM–10:30 AM Pacifica 6-7	Break and Exhibits
10:35 AM–11:50 AM Pacifica 11-12	CME Breakout 1: Essentials of Pediatric Orthopaedics I
10:35 AM–11:50 AM Oceana Grand 2-5	CME Breakout 1: Pediatric Sports Medicine Debates
10:35 AM–11:50 AM Timor Sea	CME Breakout 1: Pelvic Osteotomies Part 1: Salter, Pemberton, Dega, San Diego
10:35 AM–11:50 AM Banda Sea	CME Breakout 1: Pinning an Elbow (Hands-on)
10:35 AM–11:50 AM Pacifica 8-10	CME Breakout 1: Tumors and Infections
11:55 AM–12:55 PM Pacifica 6-7	Lunch and Exhibits
12:25 PM–12:55 PM Pacifica 6-7	Lunchtime Career Development*
1:00 PM–2:30 PM Oceana Grand 6-7	Concurrent Session 1: Contemporary Management of the Complex Neuromuscular Child



1:00 PM–2:30 PM
Oceana Grand 2-5  **Concurrent Session 1:**
 Success and Failure in Pediatric Sports Medicine

1:30 PM–2:15 PM
South China Sea  **Ponseti on the Go**
 (Hands-on)

2:35 PM–3:35 PM
Pacifica 6-7 Happy Hour in the Hall

3:40 PM–4:40 PM
Oceana Grand 2-5  **APP CME Breakout 1:**
 What You See on Sports Center–Top Injuries in the Adolescent Athlete

3:40 PM–4:40 PM
Pacifica 8-10 **Industry Spotlight Sessions 1*:** DePuy

3:40 PM–4:40 PM
Pacifica 3-5 **Industry Spotlight Sessions 1*:** NuVasive

3:40 PM–4:40 PM
Banda Sea **Industry Spotlight Sessions 1*:** Arthrex

3:40 PM–4:40 PM
Timor Sea **Industry Spotlight Sessions 1*:** DePuy

3:40 PM–4:40 PM
Coral Sea **Industry Spotlight Sessions 1*:**
 OrthoPediatics

4:45 PM–5:45 PM
Pacifica 11-12 **Industry Spotlight Sessions 2*:** NuVasive

4:45 PM–5:45 PM
Timor Sea **Industry Spotlight Sessions 2*:** DePuy


4:45 PM–5:45 PM
Java Sea **Industry Spotlight Sessions 2*:**
 OrthoPediatics

Thursday, December 7


7:00 AM–3:00 PM Registration

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

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

8:05 AM–10:05 AM
Oceana Grand 6-7  **General Session 2:**
 Combination Problems in Syndromic Children–AMC, OI, and CTD

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

10:35 AM–11:35 AM
Oceana Grand 2-5  **APP CME Breakout 2:**
 Put Me in Coach–Injury Prevention and Return to Sports After an Injury

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*:** Orthofix

10:35 AM–11:35 AM
Pacifica 11-12 **Industry Spotlight Sessions 3*:** Pacira Biosciences

10:35 AM–11:35 AM
Timor Sea **Industry Spotlight Sessions 3*:** Nview

10:35 AM–11:35 AM
Coral Sea **Industry Spotlight Sessions 3*:**
 OrthoPediatics

10:35 AM–11:35 AM
Java Sea **Industry Spotlight Sessions 3*:**
 OrthoPediatics

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

*Indicates non-CME session



Thursday continued

12:10 PM–12:40 PM Pacifica 6-7	Lunchtime Career Development*
12:45 PM–2:00 PM Pacifica 8-10	CME Breakout 2: Challenging Hips in the Elementary Years
12:45 PM–2:00 PM Pacifica 3-5	CME Breakout 2: Early Onset Scoliosis (Big Curves in Little Kids) and Neuromonitoring Challenges
12:45 PM–2:00 PM Pacifica 11-12	CME Breakout 2: Essentials of Pediatric Orthopaedics II
12:45 PM–2:00 PM Coral Sea	CME Breakout 2: Gait Analysis and Cerebral Palsy Interactive Session
12:45 PM–2:00 PM Banda Sea	CME Breakout 2: Ponseti Casting (Hands-on)
2:05 PM–2:25 PM Pacifica 6-7	Break and Exhibits
2:30 PM–4:00 PM Oceana Grand 2-5	Concurrent Session 2: Upper Extremity and Sports Case-Based Learning
2:30 PM–4:00 PM Oceana Grand 6-7	Concurrent Session 2: When a Clubfoot That Isn't Just a Clubfoot—Managing Clubfeet in Infants with Syndromes and Multiple Deformities
3:00 PM–3:45 PM South China Sea	Pavlik on the Go (Hands-on)
3:00 PM–3:45 PM South China Sea	Halo on the Go (Hands-on)
5:00 PM–7:30 PM	Top Gun Surgical Skills Competition* (by invitation only)

Friday, December 8

7:00 AM–3:30 PM	Registration
7:00 AM–8:00 AM Pacifica 6-7	Breakfast and Exhibits
8:05 AM–9:35 AM Pacifica 3-5	Concurrent Session 3: Course for Mid-Career Surgeons
8:05 AM–9:35 AM Oceana Grand 6-7	Concurrent Session 3: Femoroacetabular Impingement: Where Are We in 2023?
8:05 AM–9:35 AM Oceana Grand 2-5	Concurrent Session 3: Neuromuscular Scoliosis and Syndromic Spine
8:05 AM–9:35 AM Banda Sea	APP CME Breakout 3: Respect the Past, Embrace the Future—Recent Advances in Treatment Options for Common Sports Injuries in the Adolescent Athlete
9:40 AM–10:00 AM Pacifica 6-7	Break and Exhibits
10:05 AM–11:05 AM Pacifica 8-10	Industry Spotlight Sessions 4*: DePuy
10:05 AM–11:05 AM Pacifica 11-12	Industry Spotlight Sessions 4*: Globus Medical
10:05 AM–11:05 AM Coral Sea	Industry Spotlight Sessions 4*: BioMarin
10:05 AM–11:05 AM Java Sea	Industry Spotlight Sessions 4*: OrthoPediatrics
11:10 AM–12:10 PM Pacifica 6-7	Lunch and Exhibits

SCHEDULE AT A GLANCE




11:40 AM–12:10 PM Lunchtime Career Development*
Pacifica 6-7

9:40 AM–10:00 AM Break
Pacifica 6-7


12:15 PM–2:15 PM **General Session 3:** Author's Preferred Techniques
Oceana Grand 6-7 


10:05 AM–11:20 AM **CME Breakout 4:** Essentials of Pediatric Orthopaedics III
Pacifica 8-10 

2:15 PM–2:30 PM Awards Presentation
Oceana Grand 6-7

10:05 AM–11:20 AM **CME Breakout 4:** Pediatric Upper Limb Surgery: Concepts, Cases and Controversies
Java Sea 

2:35 PM–2:55 PM Break and Exhibits
Pacifica 6-7

10:05 AM–11:20 AM **CME Breakout 4:** Reconstruct, Rotate, or Amputate? Difficult Decisions in Limb Reconstruction
Pacifica 11-12 

3:00 PM–4:15 PM **CME Breakout 3:** Congenital Vertical Talus: Topic Update and Hands-on Casting (Hands-on)
Banda Sea 

3:00 PM–4:15 PM **CME Breakout 3:** Course for Mid-Career Surgeons
Pacifica 3-5 

11:25 AM–12:25 PM Lunch
Pacifica 6-7

3:00 PM–4:15 PM **CME Breakout 3:** Growth Modulation of the Spine
Pacifica 8-10 

3:00 PM–4:15 PM **CME Breakout 3:** Pelvic Osteotomies Part 2: Triple, PAO (Hands-on)
Timor Sea 

*Indicates non-CME session
 (Schedule Subject to Change)

Saturday, December 9

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

8:00 AM–10:00 AM Registration

8:05 AM–9:35 AM **Concurrent Session 4:** Managing Congenital Differences Below the Knee
Coral Sea 

7:30 AM–9:30 AM **Concurrent Session 4:** Course for Mid-Career Surgeons
Pacifica 8-10 



POSNA DIRECT

Your tax-deductible donation supports POSNA's vision for a world with optimal musculoskeletal health for all children.





We're redefining orthopedic care.

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Well Beyond Medicine





Tuesday, December 5

3:00 PM–7:00 PM **Registration**

4:00 PM–5:30 PM **Oceana Grand 6-7**

Arabella Leet Resident and Fellows Forum



Sponsored by Shriners Children's™

Chair: Julie Samora, MD, PhD

Co-Chair: Jennifer Laine, MD

Panelists: Jaysson Brooks, MD;

Jaime Rice Denning, MD;

Jeanne Franzone, MD; Raymond Liu, MD



In honor and memory of Dr. Arabella Leet's career and contributions she made improving the lives of children through her work and commitment to both personally and systemically providing quality and safe musculoskeletal care for children,

the Arabella Leet Resident Forum, sponsored by Shriners Children's™, is an opportunity for all to attend an exciting case competition. The top ten cases are provided by this year's scholarship winners with stimulating discussion from IPOS® faculty. Attend to demonstrate your trivia knowledge for prizes and fun!

4:00 PM–4:05PM	Introduction
4:06 PM–4:11 PM	Case 1: Andrew Kirk
4:12 PM–4:17 PM	Case 2: Jeffrey Henstenburg
4:18 PM–4:23 PM	Case 3: Guillermo Marquez
4:24 PM–4:29 PM	Trivia
4:30 PM–4:35 PM	Case 4: Michael O'Brien
4:36 PM–4:41 PM	Case 5: Stefano Cardin
4:42 PM–4:47 PM	Case 6: Christina Herrero
4:48 PM–4:53 PM	Trivia
4:54 PM–4:59 PM	Case 7: Brendon Mitchell
5:00 PM–5:05 PM	Case 8: Florencia Turazza
5:06 PM–5:11 PM	Trivia
5:12 PM–5:17 PM	Case 9: William Scott Fravel
5:18 PM–5:23PM	Case 10: Lee Haruno
5:24 PM–5:30 PM	Trivia



“There are so many reasons to attend IPOS®. I think the most important thing is that it's the most high-yield pediatric conference out there. There is so much jam-packed into four days. With all the different subspecialty tracks, you could attend multiple years in a row and get a totally different experience learning new things at each one.”

Amelia Lindgren, MD



5:35 PM–6:35 PM

Oceana Grand 6-7

Career Planning and Professional Development



Sponsored by Medtronic

This interactive hour-long session from POSNA leaders is designed for orthopaedic trainees to learn pearls on how to have a successful career. The faculty will discuss how to build a robust practice early, provide pearls on teaching the next generation and options for research and service endeavors, and address work-life integration.

5:35 PM–5:39 PM

Introduction and Welcome

Julie Samora, MD, PhD
Jennifer Laine, MD

5:40 PM–5:45 PM

How Do I Build a Busy Practice? Is it Better to Stay Broad or Sub-specialize?

Jaime Rice Denning, MD

5:46 PM–5:51 PM

How to Incorporate Meaningful Teaching While Staying Patient-Focused (and On Time)

Donald Bae, MD

5:52 PM–5:57 PM

How Can I Contribute to Discovery in Pediatric Orthopaedics? Finding Ideas, Support, and Time

Raymond Liu, MD

5:58 PM–6:03 PM

How to Become Involved in Service in Orthopaedics

Wudbhav (Woody)
Sankar, MD

6:04 PM–6:09 PM

The Importance of Life and Family, Outside of Work

Jeffrey Sawyer, MD

6:10 PM–6:23 PM

Finance and Wealth Management for Orthopaedic Surgeons

Ian Rose, LACP, CRES

6:24 PM–6:35 PM

Questions and Answers

Julie Samora, MD, PhD
Jennifer Laine, MD
Jaime Rice Denning, MD
Donald Bae, MD
Raymond Liu, MD
Wudbhav (Woody)
Sankar, MD
Jeffrey Sawyer, MD
Ian Rose, LACP, CRES
Medtronic Representative

6:35 PM–6:50 PM

Mingle with Medtronic

7:00 PM–8:15 PM

Oceana Grand 2-5

Pre-Course

(Sponsored by OrthoPediatrics)

Ego in the OR, Empathy in the Clinic

We train for years to become outstanding technical surgeons, but we know that our job entails far more than that. Our patients come with parents, and an equally important part of our job is to educate and reassure them, providing the confidence that they can trust us with their child. It can be a challenge to have the confidence and leadership that is required in the operating room, while at the same time having empathy and listening skills necessary in the clinic. To be successful, you will need both. We will hear from some technically outstanding surgeons who have mastered the ability to have both ego and empathy and participate in some role-play scenarios.

Alexandre Arkader, MD
Maryse Bouchard, MD, MSc
Scott Luhmann, MD

8:20 PM–9:20 PM

Java Sea

Industry-Sponsored Cocktail Reception (Sponsored by OrthoPediatrics)

Leading the world in pediatric orthopaedic care.

Campbell Clinic is committed to attracting and nurturing the world's top talent in pediatric orthopaedics. We're proud to support surgeons whose research, insight, and expertise built our reputation as an international leader in musculoskeletal care and continue to shape the future of pediatric care.



Back row from left to right:

William C. Warner, M.D.

Derek M. Kelly, M.D. (Current IPOS[®] Co-Director)

Keith J. Orland, M.D.

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

Front row from left to right:

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



Wednesday, December 6

- 7:00 AM–5:00 PM **Registration**
- 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



You won't want to miss the Mastering Call in Pediatric Orthopaedics session. This year's course provides a comprehensive overview of what it takes to care for pediatric orthopedic 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 orthopaedics, 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 every day work.

- 7:45 AM–8:00 AM **Onboarding**
- 8:00 AM–8:04 AM **Introduction to IPOS® and Teams**
Co-Director:
Suken Shah, MD, FAOA,
FAAOS

8:05 AM–8:07 AM **Introduction to Session and App**
Moderators: Jonathan Schoenecker, MD, PhD
Nicholas Fletcher, MD

8:08 AM–8:39 AM Trauma Periosteum

8:08 AM–8:14 AM **Periosteum Introduction**
Jonathan Schoenecker, MD, PhD

8:15 AM–8:21 AM **Periosteum Intact Fracture Principles**
Thomas McPartland, MD

8:22 AM–8:28 AM **Periosteum Not Intact Fracture Principles**
Jennifer Laine, MD

8:29 AM–8:33 AM **Quiz/Survey 1**
Moderator: Nicholas Fletcher, MD

8:34 AM–8:39 AM **Discussion Periosteum**
Moderator: Nicholas Fletcher, MD

8:40 AM–9:11 AM Trauma Colateral Damage

8:40 AM–8:46 AM **Open Fracture Management**
Alexandre Arkader, MD

8:47 AM–8:53 AM **Nerve and Vascular Injury Management**
Lindley Wall, MD, MSc

8:54 AM–9:00 AM **Physeal Injury Management**
Nicholas Fletcher, MD

9:01 AM–9:05 AM **Quiz/Survey 2 Collateral Damage**
Moderator:
Lindsay Andras, MD

9:06 AM–9:11 AM **Discussion Collateral Damage**
Moderator:
Lindsay Andras, MD



9:11 AM–9:38 AM Trauma Severe Injury

9:12 AM–9:18 AM **Acute Phase Response in Severe Injury**
Jonathan Schoenecker, MD, PhD

9:19 AM–9:25 AM **Multi Trauma Patient Management**
Lindsay Andras, MD

9:26 AM–9:32 AM **Septic Patient**
Thomas McPartland, MD

9:33 AM–9:35 AM **Quiz/Survey 3 Severe Injury**
Moderator: Alexandre Arkader, MD

9:36 AM–9:38 AM **Discussion Severe Injury**
Moderator: Alexandre Arkader, MD

9:39 AM–10:05 AM Trauma Wrap Up

9:39 AM–9:41 AM **Score Recap**
Moderators: Nicholas Fletcher, MD
Jonathan Schoenecker, MD, PhD

9:42 AM–9:45 AM **Quiz 5/Survey Potpourri**
Moderators: Nicholas Fletcher, MD
Jonathan Schoenecker, MD, PhD

9:46 AM–9:55 AM **Discussion All-Review Audience Response**
Moderators: Nicholas Fletcher, MD
Jonathan Schoenecker, MD, PhD

9:56 AM–10:05 AM **Final Results and Discussion**
Moderators: Nicholas Fletcher, MD
Jonathan Schoenecker, MD, PhD

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

CME BREAKOUT 1



10:35 AM–11:50 AM Pacifica 11-12

Essentials of Pediatric Orthopaedics

This session covers the basics of pediatric orthopaedics with a focus on recognition, evaluation, and treatment of common conditions. The information 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.

Moderator: Jeff Martus, MD

10:35 AM–10:40 AM **Normal Growth and Alignment**
L. Reid Boyce Nichols, MD, FAOA, FAAOS

10:41 AM–10:46 AM **Normal Gait and Gait Deviations**
M. Wade Shrader, MD

10:47 AM–10:54 AM **MSK Imaging Essentials**
Jeff Martus, MD

10:55 AM–11:01 AM **Discussion**
L. Reid Boyce Nichols, MD, FAOA, FAAOS
M. Wade Shrader, MD
Jeff Martus, MD

11:02 AM–11:07 AM **Approach to the Child with Developmental Delay**
James McCarthy, MD

11:08 AM–11:13 AM **CP: Lower Extremity (Hip Dysplasia, Crouch Gait, and Foot Deformity)**
Benjamin Shore, MD, MPH, FRCSC

11:14 AM–11:19 AM **CP: Upper Extremity**
Lindley Wall, MD, MSc



11:20 AM–11:28 AM **Discussion**
 Jeff Martus, MD
 James McCarthy, MD
 Benjamin Shore, MD, MPH,
 FRCSC
 Lindley Wall, MD, MSc

11:29 AM–11:34 AM **Limb Length
 Discrepancy and Limb
 Deficiency**
 Raymond Liu, MD

11:35 AM–11:40 AM **Hip: DDH, Perthes, SCFE**
 Rachel Thompson, MD

11:41 AM–11:50 AM **Discussion**
 Jeff Martus, MD
 Raymond Liu, MD
 Rachel Thompson, MD

10:56 AM–11:01 AM **First-Time Patella
 Dislocation Conservative
 Management**
 Corinna Franklin, MD

11:02 AM–11:07 AM **First-Time Patella
 Dislocation Operative
 Management**
 Henry Ellis, MD

11:07 AM–11:13 AM **Discussion**
 Corinna Franklin, MD
 Henry Ellis, MD

11:14 AM–11:19 AM **Ankle Instability
 Conservative
 Management**
 Javier Masquijo, MD

11:20 AM–11:25 AM **Ankle Instability
 Operative Management**
 Maryse Bouchard, MD, MSc

11:26 AM–11:31 AM **Discussion**
 Javier Masquijo, MD
 Maryse Bouchard, MD, MSc

11:32 AM–11:37 AM **First-Time Elbow
 Dislocation Conservative
 Management**
 Kevin Shea, MD

11:38 AM–11:43 AM **First-Time Elbow
 Dislocation Operative
 Management**
 Christine Ho, MD

11:43 AM–11:50 AM **Discussion**
 Kevin Shea, MD
 Christine Ho, MD

CME BREAKOUT 1



10:35 AM–11:50 AM **Oceana Grand 2-5**

Pediatric Sports Medicine Debates

First-Time Joint Dislocations Debated: Vote Early
 and Vote Often for Surgery or No Surgery

Moderator: Theodore Ganley, MD

10:35 AM–10:37 AM **Opening Remarks and
 Pre-Debate Voting**
 Moderator: Theodore
 Ganley, MD

10:38 AM–10:43 AM **First-Time Shoulder
 Dislocation Conservative
 Management**
 Eric Edmonds, MD

10:44 AM–10:49 AM **First-Time Shoulder
 Dislocation Operative
 Management**
 Mininder Kocher, MD, MPH

10:50 AM–10:55 AM **Discussion**
 Eric Edmonds, MD
 Mininder Kocher, MD, MPH



CME BREAKOUT 1



10:35 AM–11:50 AM Timor Sea

Pelvic Osteotomies Part 1 : Salter, Pemberton, Dega, San Diego (Hands-on)

Part 1: Salter, Dega, Pemberton, San Diego Osteotomies

Moderator: Pablo Castañeda, MD

- 10:35 AM–10:40 AM **Salter Osteotomy**
Simon Kelley, MBChB, PhD, FRCS
- 10:41 PM–10:46 PM **Dega/Pemberton Osteotomy**
Nicholas Fletcher, MD
- 10:47 AM–10:52 AM **San Diego Acetabuloplasty**
V. Salil Upasani, MD
- 10:53 PM–11:09 AM **Short Case Review**
Pablo Castañeda, MD
- 11:10 AM–11:50 AM **Table Instruction**
Hands-on Faculty:
Kishore Mulpuri, MBBS, MS, MHS, FRCS
Alaric Aroojis, MS, D'Ortho, DNB
V. Salil Upasani, MD
Pablo Castañeda, MD
Nicholas Fletcher, MD
Simon Kelley, MBChB, PhD, FRCS

CME BREAKOUT 1



10:35 AM–11:50 AM Banda Sea

Pinning an Elbow (Hands-on)

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

Moderator: Donald Bae, MD

- 10:35 AM–10:40 AM **Why Skiing Is Such a Great Family Activity**
Donald Bae, MD
- 10:41 AM–10:46 AM **Beginning with BOGERD**
Julie Samora, MD, PhD
- 10:47 AM–10:50 AM **Table Assignments**
Donald Bae, MD
- 10:50 AM–11:35 AM **Hands-on Exercise**
Hands-on Faculty:
Donald Bae, MD
Julie Samora, MD, PhD
Kali Tileston, MD, FAAOS
John (Jack) Flynn, MD
Jeffrey Sawyer, MD
Jennifer Laine, MD
Jaysson Brooks, MD
Andrea Bauer, MD
Matthew Oetgen, MD, MBA
Derek Kelly, MD, FAAOS, FAOA
Jennifer Bauer, MD, MS
Vishwas Talwalkar, MD, FAAOS
Thomas McPartland, MD
- 11:35 AM–11:40 AM **Debrief**
Kali Tileston, MD, FAAOS
- 10:41 AM–10:47 AM **String of Pearls**
Moderator: Donald Bae, MD

WiFi
Information

Conference WiFi:
IPOS2023

Password:
orlando2023



- 10:42 AM–10:43 AM **My Favorite Room Setup Tip**
Kali Tileston, MD, FAAOS
- 10:43 AM–10:44 AM **My Go-to Closed Reduction Maneuver**
Vishwas Talwalkar, MD, FAAOS
- 10:44 AM–10:45 AM **The Key to an Open Reduction**
Andrea Bauer, MD
- 10:45 AM–10:46 AM **Pinning Pearl: Lateral Pins**
Jeffrey Sawyer, MD
- 10:46 AM–10:47 AM **Pinning Pearl: The Medial Pin**
John (Jack) Flynn, MD
- 10:48 AM–10:50 AM **Making Your CAST**
Julie Samora, MD, PhD

CME BREAKOUT 1



10:35 AM–11:50 AM Pacifica 8-10

Tumors and Infections

This session will discuss the overlap between infectious and neoplastic conditions, including modern treatment of the most common pathologies and update on related differential diagnosis. The goal is to walk through several cases and allow for audience participation and interaction.

Moderator: Craig Ebersen, MD, FAOA

- 10:35 AM–10:41 AM **Is it a Tumor or Infection?**
Alexandre Arkader, MD
- 10:42 AM–10:48 AM **The Metastatic Infection and Predicting Complications in MSKI**
Jonathan Schoenecker, MD, PhD

- 10:49 AM–10:55 AM **Understanding (Maybe) and Managing Non-Bacterial Osteomyelitis**
Craig Louer Jr., MD
- 10:56 AM–11:02 AM **Pediatric Septic Hip–The UK Approach**
Daniel Perry, MA (Oxon), PhD, FRCS (Orth)
- 11:03 AM–11:08 AM **Discussion**
- 11:09 AM–11:15 AM **Benign Tumors of the Spine: When to Cut, When to Instrument, When to Burn**
Craig Ebersen, MD, FAOA
- 11:16 AM–11:22 AM **Bone Tumors Meet Limb Deformities (MHE, Ollier's, FD...)**
Mihir Thacker, MD
- 11:23 AM–11:29 AM **“The Quick Guide” to Managing Benign Cystic Lesions**
Ron El-Hawary, MD, MSc, FRCS(C)
- 11:30 AM–11:36 AM **Generalist Approach to Malignant Bone Tumors: Pearls, Pitfalls, and Staging**
Mihir Thacker, MD
- 11:37 AM–11:50 AM **Discussion**
Alexandre Arkader, MD
Jonathan Schoenecker, MD, PhD
Craig Louer Jr., MD
Daniel Perry, MA (Oxon), PhD, FRCS (Orth)
Ron El-Hawary, MD, MSc, FRCS(C)
Craig Ebersen, MD, FAOA
Mihir Thacker, MD

11:55 AM–12:55 PM **Lunch and Exhibits**
Pacifica 6-7

12:25 PM–12:55 PM **Lunchtime Career Development (non-CME)**
Pacifica 6-7

Medtronic

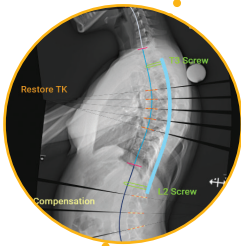
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CONCURRENT SESSION 1 

1:00 PM–2:30 PM **Oceana Grand 6-7**

Contemporary Management of the Complex Neuromuscular Child

Broad discussion of the care of children with cerebral palsy, spinal muscle atrophy, and similar pediatric disabilities, including new techniques of growth modulation, complex care coordination, gene therapy in SMA, and how new therapy is changing the prognosis of SMA.

Moderator: M. Wade Shrader, MD

eModerator:

Benjamin Shore, MD, MPH, FRCSC

- 1:00 PM–1:02 PM **Introduction**
M. Wade Shrader, MD
- 1:03 PM–1:10 PM **Minimizing Postoperative Complications in the Neuromuscular Child**
M. Wade Shrader, MD
- 1:11 PM–1:17 PM **Who Should We Not Operate On? Ethics, Palliative Care, and Shared Decision-Making**
Rachel Thompson, MD
- 1:18 PM–1:23 PM **Hip Guided Growth in Cerebral Palsy: Technical Details and Early Results**
Jon Davids, MD
- 1:24 PM–1:29 PM **Knee Guided Growth in Cerebral Palsy: Implants, Technique, and Results**
Kenneth Noonan, MD, MHCDS
- 1:30 PM–1:45 PM **Q&A/Case Discussion**
M. Wade Shrader, MD
Rachel Thompson, MD
Jon Davids, MD
Kenneth Noonan, MD, MHCDS

- 1:46 PM–1:53 PM **SMA: New Genetic Diagnosis and Treatment Changes Everything**
Jaysson Brooks, MD
- 1:54 PM–2:00 PM **SMA Hips, PRO: We Should Operate with the Changing Prognosis**
Benjamin Shore, MD, MPH, FRCSC
- 2:01 PM–2:07 PM **SMA Hips, CON: Still Approach with Caution**
Kishore Mulpuri, MBBS, MS, MHSc, FRCSC
- 2:08 PM–2:14 PM **SMA Spine: From EOS to PSF to Intrathecal Access**
Michael Vitale, MD, MPH
- 2:15 PM–2:30 PM **Q&A/Case Discussion**
Jaysson Brooks, MD
Benjamin Shore, MD, MPH, FRCSC
Kishore Mulpuri, MBBS, MS, MHSc, FRCSC
Michael Vitale, MD, MPH





CONCURRENT SESSION 1 

1:00 PM–2:30 PM Oceana Grand 2-5

Success and Failure in Pediatric Sports Medicine

How to Successfully Approach Sports Medicine and What to Do When Things Go Wrong in a 101 (Beginner) to 401 (Expert) Course.

Moderator: Eric Edmonds, MD
eModerator: Javier Masquijo, MD

- 1:00 PM–1:01 PM **Opening Remarks and Introduction of 101 to 401**
Eric Edmonds, MD
- 1:02 PM–1:07 PM **How to Manage Osteochondral Lesions of the Talus**
Javier Masquijo, MD
- 1:08 PM–1:13 PM **How to Manage the Failures of OLT Surgery**
Kevin Shea, MD
- 1:14 PM–1:19 PM **How to Manage Knee Cartilage Injuries**
Corinna Franklin, MD
- 1:20 PM–1:25 PM **How to Manage the Failures of Knee Cartilage Surgery**
Mininder Kocher, MD, MPH
- 1:26 PM–1:32 PM **Discussion**
Eric Edmonds, MD
Javier Masquijo, MD
Kevin Shea, MD
Corinna Franklin, MD
Mininder Kocher, MD, MPH
- 1:33 PM–1:38 PM **How to Manage Meniscus Tears**
John Lovejoy III, MD, FAAOS
- 1:39 PM–1:44 PM **How to Manage Failed Meniscus Surgery**
Henry Ellis, MD

1:45 PM–1:50 PM

How to Manage Ankle Instability
Jennifer Laine, MD

1:51 PM–1:56 PM

How to Manage Failed Ankle Surgery
Maryse Bouchard, MD, MSc

1:57 PM–2:03 PM

Discussion
John Lovejoy III, MD, FAAOS
Henry Ellis, MD
Jennifer Laine, MD
Maryse Bouchard, MD, MSc

2:04 PM–2:10 PM

Motion Analysis in Sports Medicine
Corinna Franklin, MD

2:11 PM–2:17 PM


Discoid Meniscus Technique
Eric Edmonds, MD

2:18 PM–2:24 PM

Elbow Arthroscopy Techniques
Theodore Ganley, MD

2:25 PM–2:30 PM

Discussion
Corinna Franklin, MD
Eric Edmonds, MD
Theodore Ganley, MD

1:30 PM–2:15 PM South China Sea
Ponseti on the Go (Hands-on) 

This session will provide a brief introduction with Ponseti tips and tricks followed by a Hands-on casting lab with ample opportunity to learn and practice.

Hands-on Faculty:

- L. Reid Boyce Nichols, MD, FAOA, FAAOS
- Derek Kelly, MD, FAAOS, FAOA
- Alaric Aroojis, MS, D'Ortho, DNB
- Vishwas Talwalkar, MD, FAAOS



2:35 PM–3:35 PM **Happy Hour in the Hall**
Pacifica 6-7

3:40 PM–4:40 PM **Industry Spotlight**
Sessions 1 (non-CME)
See page 26 for details

APP CME BREAKOUT 1 

3:40 PM–4:40 PM Oceana Grand 2-5

What You See on Sports Center–Top Injuries in the Adolescent Athlete

Making the Diagnosis: The Participant Will Understand the Importance of Detailed History, Recognize Key Exam and X-Ray Findings, Identify Common Pitfalls, and Determine Best Next Steps When Diagnosing Common Sports Injuries in the Adolescent Athlete.

Moderator: Tracy War Hoover, MSN, RN, CPNP

3:40 PM–3:45 PM **Taking the Hit– Concussions, Neck, and Back Injuries**
Caitlin Parsons, PA-C

3:46 PM–3:51 PM **Take Me Out to the Ball Game–Common Shoulder Injuries in the Adolescent Athlete**
Ben Johnson, PA-C

3:52 PM–3:57 PM **What's Your Pitch Count? Elbow Injuries Seen in Young Throwing Athletes**
Ray Kleposki, MSN, CPNP

3:58 PM–4:03 PM **Making the Catch– Common Sports-Related Wrist and Hand Injuries**
John Ansiaux, PA-C

4:04 PM–4:12 PM **Discussion**
Caitlin Parsons, PA-C
Ben Johnson, PA-C
Ray Kleposki, MSN, CPNP
John Ansiaux, PA-C

4:13 PM–4:18 PM **One Too Many Hurdles to Overcome–Sports Related Hip Injuries**
Valerie Parrish, PA-C

4:19 PM–4:24PM **Not a Slam Dunk– Common Knee Injuries in Adolescent Athletes**
Adriana Glazier, PA-C

4:25 PM–4:30 PM **Don't Get Tripped Up– Ankle and Foot Injuries**
Christopher Tremonti, PA-C

4:31 PM–4:40 PM **Discussion**
Valerie Parrish, PA-C
Adriana Glazier, PA-C
Christopher Tremonti, PA-C

4:45 PM–5:45 PM **Industry Spotlight Sessions 2 (non-CME)**
See page 26 for details

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Industry Spotlight Session 1

3:40 PM–4:40 PM

Arthrex, Inc. (Non-CME)

Banda Sea

Eric Edmonds, MD

Managing ACL Tears in Adolescent Patients

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

OrthoPediatrics (Non-CME)

Coral Sea

Nicholas Fletcher, MD; Jeanne Franzone, MD

Small Canal Solutions for Pediatrics

This case-based session will focus on unique treatments for patients with small canals for both deformity correction and trauma indications.

DePuy (Non-CME)

Timor Sea

Walter Samora, MD; Khristinn Kellie Leitch, MD

Lower Extremity Pediatric Fracture Management

Explore myriad lower extremity pediatric fracture treatment options in this hands-on session with Dr. Walter Samora of Nationwide Children's Hospital and the Hon. Dr. Khristinn Kellie Leitch of the University of Mississippi Medical Center Children's Hospital. A case-based discussion on when and where to utilize harness, casting, nailing, plating, and framing treatment plans will be followed by rotating labs of the DePuy Synthes adolescent nail, submuscular plating, and framing product portfolios.

DePuy (Non-CME)

Pacifica 8-10

Keith Bachmann, MD; Firoz Miyaj, MD, FRCSC; V. Salil Upasani, MD; Jennifer Bauer, MD, MS

Complex Spine: Transition from Early Onset to Young Adult

Please join our expert surgeon panel for an interactive, case-based discussion following the surgical progression from EOS to skeletally mature patients. The cases presented will touch upon the unique challenges that present for each pathology and the important considerations that drive the panel's treatment plan.

NuVasive (Non-CME)

Pacifica 11-12

Christof Radler, MD; Philip McClure, MD; Shawn Standard, MD

Precice Case Mash Up: Unveiling Fundamental Pearls and Principles for Success

Drs. Radler, McClure, and Standard will lead an interactive walk-through of multiple case scenarios using Precice, covering patient selection, pre-op planning, intra-op execution, and post-op case management. Special focus will be directed towards the core Precice principles and fundamentals that are applicable to all case examples shown. Open Q&A exchange is encouraged throughout.

Industry Spotlight Session 2

4:45 PM–5:45 PM

OrthoPediatrics (Non-CME)

Java Sea

Andrea Kramer, MD; Jonas Owen, MD;

David Speers, CPO

Femur Fracture/Bracing Workshop (DF2 Debut)

Recent studies suggest that functional bracing may be equivalent to spica casting for patients with femur fractures. This session will highlight a commercially available brace, the research supporting its use, and how to integrate into a busy pediatric orthopaedic practice.

DePuy (Non-CME)

Timor Sea

Walter Samora, MD; Khristinn Kellie Leitch, MD

Lower Extremity Pediatric Fracture Management

Explore myriad lower extremity pediatric fracture treatment options in this hands-on session with Dr. Walter Samora of Nationwide Children's Hospital and the Hon. Dr. Khristinn Kellie Leitch of the University of Mississippi Medical Center Children's Hospital. A case-based discussion on when and where to utilize harness, casting, nailing, plating, and framing treatment plans will be followed by rotating labs of the DePuy Synthes adolescent nail, submuscular plating, and framing product portfolios.

NuVasive (Non-CME)

Pacifica 11-12

Lindsay Andras, MD; Michelle Welborn, MD; Megan Johnson, MD

Addressing Pediatric Spinal Deformity from Occiput to Pelvis: Holistic Strategies to Optimize Patient OutcomesN33

Please join our esteemed faculty as they share their insights, tips, and tricks around treating the full pediatric spine across ages and indications. This will be an interactive case-based discussion around best practices in the cervical, thoracolumbar, and pelvic pediatric spine followed by a hands-on session to demonstrate the latest techniques in treating pediatric spinal deformity. Learn techniques in treating pediatric spinal deformity.



Children's Health



Stanford Excellence By the Numbers



- **2** IPOS® 2023 faculty: Kevin Shea, MD and Kali Tileston, MD
- **70** retrospective and prospective active trials
- **42** peer-reviewed publications (and counting) in 2023
- **25** national and regional presentations
- **38,000** outpatient visits a year
- **2,000** surgeries a year
- **15** pediatric orthopedic surgeons and sports medicine specialists



Learn more at ortho.stanfordchildrens.org
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Thursday, December 7

- 7:00 AM–3:00 PM **Registration**
- 7:00 AM–8:00 AM **Breakfast and Exhibits**
Pacifica 6-7
- 7:00 AM–8:00 AM **Breakfast with Faculty**
(non-CME)
Pacifica 6-7

GENERAL SESSION 2



8:05 AM–10:05 AM Oceana Grand 6-7

Combination Problems in Syndromic Children—AMC, OI, and CTD

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 in a case-based format to reveal and discuss central and peripheral issues critical to manage.

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

- 8:05 AM–8:05 AM **Opening Remarks**
Co-Director:
Suken Shah, MD, FAOA,
FAAOS
- 8:05 AM–8:52 AM Arthrogryposis Multiplex Congenita**
- 8:05 AM–8:11 AM **Current Knowledge About the Etiology and Spectrum of AMC**
Alaric Aroojis, MS, D'Ortho,
DNB
- 8:12 AM–8:18 AM **Scoliosis in AMC and Bruck Syndrome: How to Navigate the Challenges**
Michael Vitale, MD, MPH
- 8:19 AM–8:27 AM **Upper Limb in Arthrogryposis: How to Give Kids Some ADLs**
Lindley Wall, MD, MSc

- 8:29 AM–8:34 AM **The Arthrogrypotic Hip: What Can We Do with It?**
Pablo Castañeda, MD
- 8:35 AM–8:40 AM **Talk about Miserable Malalignment ... The Lower Extremity in AMC**
L. Reid Boyce Nichols, MD,
FAOA, FAAOS
- 8:41 AM–8:46 AM **Foot and Ankle Challenges in Arthrogryposis**
Anthony Riccio, MD
- 8:47 AM–8:52 AM **Discussion**
Alaric Aroojis, MS,
D'Ortho, DNB
Michael Vitale, MD, MPH
Lindley Wall, MD, MSc
Pablo Castañeda, MD
L. Reid Boyce Nichols, MD,
FAOA, FAAOS
Anthony Riccio, MD
- 8:53 AM–9:28 AM Osteogenesis Imperfecta**
- 8:53 AM–8:58 AM **Spine Problems in OI from Occiput to Sacrum**
Suken Shah, MD, FAOA,
FAAOS
- 8:59 AM–9:04 AM **Humeral Shaft Deformity in OI and Reconstruction with Function in Mind**
Jeanne Franzone, MD
- 9:05 AM–9:10 AM **Consequences of Acetabular Protrusion in OI ... Can Anything Be Done?**
Kishore Mulpuri, MBBS, MS,
MHSc, FRCSC
- 9:11 AM–9:16 AM **Long Bone Rodding in OI: Rationale and Deformity Correction**
Derek Kelly, MD, FAAOS,
FAOA



9:17 AM–9:22 AM

Bisphosphonate Therapy in OI and Future Modalities of Treatment

Vishwas Talwalkar, MD, FAAOS

9:23 AM–9:28 AM

Discussion

Suken Shah, MD, FAOA, FAAOS
 Jeanne Franzone, MD
 Kishore Mulpuri, MBBS, MS, MHSc, FRCSC
 Derek Kelly, MD, FAAOS, FAOA
 Vishwas Talwalkar, MD, FAAOS

9:29 AM–10:05 AM

Connective Tissue Disorders

9:29 AM–9:34 AM

Cervical Spine in CTD: Instability, Kyphosis, and Cerebrovascular Issues

Jennifer Bauer, MD, MS

9:35 AM–9:40 AM

Thoracolumbar Spine in CTD

Jaysson Brooks, MD

9:41 AM–9:46 AM

Late Onset Hip Dysplasia in CTD: Successes and Failures

Mihir Thacker, MD

9:47 AM–9:52 AM

Managing the Unstable Patella in CTD

Mininder Kocher, MD, MPH

9:52 AM–9:57 AM

Ankle Instability in CTD: Bone and Soft Tissue Concerns

Maryse Bouchard, MD, MSc

9:58 AM–10:05 AM

Discussion

Jennifer Bauer, MD, MS
 Jaysson Brooks, MD
 Mihir Thacker, MD
 Mininder Kocher, MD, MPH
 Maryse Bouchard, MD, MSc

10:10 AM–10:30 AM

Break and Exhibits

Pacifica 6-7

APP CME BREAKOUT 2

APP

10:35 AM–11:35 AM

Oceana Grand 2-5

Put Me in Coach—Injury Prevention and Return to Sports After an Injury

The participant will be able to identify key ways to prevent season ending injuries (improving form, rest, time off from specific sports, warm ups). They will also be able to determine next steps after an injury has occurred (rest, immobilization, rehab, or surgery) and appreciate the importance of a multidisciplinary approach to getting these athletes back to their sports.

Moderator: Tracy War Hoover, MSN, RN, CPNP

10:35 AM–10:40 AM

Thinking Clearly—Protocol for Return to Sports After a Concussion

Caitlin Parsons, PA-C

10:41 AM–10:46 AM

Coming Full Circle—Return to Sport Considerations Following Shoulder Injury/Surgery

Ben Johnson, PA-C

10:47 AM–10:52 AM

Orthopaedic Manifestations of Eating Disorders

Ray Kleposki, MSN, CPNP

10:53 AM–10:58 AM

Catching Up with the Team—Returning to Play After a Wrist or Hand Injury

John Ansiaux, PA-C

10:59 AM–11:07 AM

Discussion

Caitlin Parsons, PA-C
 Ben Johnson, PA-C
 Ray Kleposki, MSN, CPNP
 John Ansiaux, PA-C

11:08 AM–11:13 AM

Hip Hip Hooray, When Can I Go Back to Play—Hip Injuries

Valerie Parrish, PA-C



11:14 AM–11:19 AM **Making the Cut–Protocol for Returning to Full Sports After a Knee Injury**
Adriana Glazier, PA-C

11:20 AM–11:25 AM **Bouncing Back From the Bench–Return to Sports After an Ankle or Foot Injury**
Christopher Tremonti, PA-C

11:26 AM–11:35 AM **Discussion**
Valerie Parrish, PA-C
Adriana Glazier, PA-C
Christopher Tremonti, PA-C

10:35 AM–11:35 AM **Industry Spotlight Sessions 3 (non-CME)**
See page 36 for details

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

12:10 PM–12:40 PM **Lunchtime Career Development (non-CME)**
Pacifica 6-7

CME BREAKOUT 2



12:45 PM–2:00 PM **Pacifica 8-10**

Challenging Hips in the Elementary Years

This session will cover the diagnosis and management of atypical hips in the 6-11 year age group.

Moderator: Wudbhav (Woody) Sankar, MD

12:45 PM–12:50 PM **DDH: Decision-Making in Mild-Moderate Dysplasia**
Daniel Perry, MA(Oxon), PhD, FRCS (Orth)

12:51 PM–12:56 PM **DDH: Managing Growth Arrest**
Kishore Mulpuri, MBBS, MS, MHSc, FRCSC

12:57 PM–1:02 PM **DDH: Late Neglected Dislocations**
Simon Kelley, MBChB, PhD, FRCS

1:03 PM–1:08 PM **Questions**
Wudbhav (Woody) Sankar, MD
Daniel Perry, MA(Oxon), PhD, FRCS (Orth)
Kishore Mulpuri, MBBS, MS, MHSc, FRCSC
Simon Kelley, MBChB, PhD, FRCS

1:09 PM–1:14 PM **MHE Hip Deformity: Elements and Solutions**
Mihir Thacker, MD

1:15 PM–1:20 PM **Charcot Marie Tooth: It May See You More Than You See It!**
Wudbhav (Woody) Sankar, MD

1:21 PM–1:26 PM **Sickle Cell Anemia and Osteonecrosis of the Hip**
Jonathan Schoenecker, MD, PhD

1:27 PM–1:32 PM **Questions**
Mihir Thacker, MD
Wudbhav (Woody) Sankar, MD
Jonathan Schoenecker, MD, PhD

1:33 PM–2:00 PM **Cases**
Wudbhav (Woody) Sankar, MD
Daniel Perry, MA(Oxon), PhD, FRCS (Orth)
Kishore Mulpuri, MBBS, MS, MHSc, FRCSC
Simon Kelley, MBChB, PhD, FRCS
Mihir Thacker, MD
Jonathan Schoenecker, MD, PhD



CME BREAKOUT 2



12:45 PM–2:00 PM Pacifica 3-5

Early Onset Scoliosis (Big Curves in Little Kids) and Neuromonitoring Challenges

Spine geeks rejoice! This two-part interactive breakout will feature all stops on the EOS journey and faculty-led small groups dealing with simulated neuromonitoring changes.

Moderator: Firoz Miyanji, MD, FRCSC

12:45 PM–12:50 PM **Casting and NonOp Strategies in EOS: Treatment Plan or Delaying Tactic?**
Michelle Welborn, MD

12:51 PM–12:56 PM **Abandon Ship: When to Start the Surgical Journey in EOS**
Michael Glotzbecker, MD

12:57 PM–1:02 PM **Conversion of Growing Rods to Final Fusion: Why, When, and How**
Lindsay Andras, MD

1:03 PM–1:08 PM **Challenges in Congenital Cervicothoracic Deformity Management**
Firoz Miyanji, MD, FRCSC

1:08 PM–1:12 PM **Discussion**
Michelle Welborn, MD
Michael Glotzbecker, MD
Lindsay Andras, MD
Firoz Miyanji, MD, FRCSC

1:13 PM–1:29 PM

Case Presentations and Discussion

Moderator: Firoz Miyanji, MD, FRCSC
John (Jack) Flynn, MD
Jennifer Bauer, MD, MS
Michael Vitale, MD, MPH
Jeff Martus, MD

1:30 PM–2:00 PM

Adolescent Idiopathic Scoliosis (Small Group-Based Discussion): Neuromonitoring Challenges

Moderator:
Firoz Miyanji, MD, FRCSC
Facilitator:
Michael Vitale, MD, MPH

1:30 PM–1:54 PM

Small Group Breakout: “Responding to Real-Time Neuromonitoring Changes”

Small Group Faculty:
Robert Cho, MD, FAAOS
Michael Glotzbecker, MD
Lindsay Andras, MD
Jennifer Bauer, MD, MS
John (Jack) Flynn, MD
Todd Milbrandt, MD
Burt Yaszay, MD
Ron El-Hawary, MD, MSc, FRCSC(C)

1:55 PM–2:00 PM

Summary: How I Repond to Intraop Monitoring Changes

Michael Vitale, MD, MPH



“Having attended one of the first IPOS® meetings nearly 20 years ago, I have watched it progress. It allows you to be around the greatest minds in pediatric orthopaedics and learn about nearly any topic that you’re interested in.”

Jeffrey Shilt, MD



CME BREAKOUT 2



12:45 PM–2:00 PM Pacifica 11-12

Essentials of Pediatric Orthopaedics II

This session covers the basics of pediatric orthopaedics with a focus on recognition, evaluation, and treatment of common conditions. The information 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.

Moderator: Matthew Oetgen, MD, MBA

12:45 PM–12:50 PM **Approach to the Limping Child**
Craig Ebersson, MD, FAOA

12:51 PM–12:56 PM **Acute and Chronic MSK Infections**
Raymond Liu, MD

12:57 PM–1:02 PM **MSK Tumors: Staying Out of Trouble**
Alexandre Arkader, MD

1:03 PM–1:11 PM **Discussion**
Craig Ebersson, MD, FAOA
Raymond Liu, MD
Alexandre Arkader, MD

1:12 PM–1:17 PM **Neonatal Foot (Clubfoot, CVT, Calcaneovalgus, Met Add, Polydactyly)**
Jaime Rice Denning, MD

1:18 PM–1:23 PM **Child/Adolescent Foot (Accessory Navicular, Curly Toes, Hallux Valgus, Pes Planus, Tarsal Coalition)**
Christof Radler, MD

1:24 PM -1:32 PM **Discussion**
Jaime Rice Denning, MD
Christof Radler, MD

1:33 PM–1:38 PM

Sports: Knee/Ankle (ACL, Meniscus Tear, Discoid Meniscus, OCD, Patellar Instability, Ankle Instability)
Corinna Franklin, MD

1:39 PM–1:44 PM

Sports: Shoulder/Elbow (Shoulder Instability, Elbow OCD)
Eric Edmonds, MD

1:45 PM–1:50 PM

Approach to the Patient with Multifocal Musculoskeletal Symptoms
John Lovejoy III, MD, FAAOS

1:51 PM–2:00 PM

Discussion
Corinna Franklin, MD
Eric Edmonds, MD
John Lovejoy III, MD, FAAOS

CME BREAKOUT 2



12:45 PM–2:00 PM Coral Sea

Gait Analysis and Cerebral Palsy Interactive Session

Practical learning of gait impairments and treatment in cerebral palsy, including small group discussion, flipped classroom, and basics of observational and instrumented gait analysis.

Moderator: M. Wade Shrader, MD

12:45 PM–12:47 PM **Introduction**
M. Wade Shrader, MD

12:48 PM–12:53 PM **Identifying Pathological Gait in CP**
Benjamin Shore, MD, MPH, FRCSC

12:54 PM–12:59 PM **How I Approach Gait Analysis: The Diagnostic Matrix**
Jon Davids, MD



1:00 PM–1:15 PM

**Flipped Classroom:
Jump Gait**

M. Wade Shrader, MD
Benjamin Shore, MD, MPH,
FRCS
Jon Davids, MD
James McCarthy, MD
Jennifer Laine, MD
Rachel Thompson, MD

1:15 PM–1:30 PM

**Flipped Classroom:
Miserable Malalignment**

M. Wade Shrader, MD
Benjamin Shore, MD, MPH,
FRCS
Jon Davids, MD
James McCarthy, MD
Jennifer Laine, MD
Rachel Thompson, MD

1:30 PM–1:45 PM

**Flipped Classroom:
Adolescent Crouch Gait**

M. Wade Shrader, MD
Benjamin Shore, MD, MPH,
FRCS
Jon Davids, MD
James McCarthy, MD
Jennifer Laine, MD
Rachel Thompson, MD

1:46 PM–1:50 PM

**Master Review Case 1
(Jump Gait): Take Home
Points**

James McCarthy, MD

1:51 PM–1:55 PM

**Master Review
Case 2 (Miserable
Malalignment): Take
Home Points**

Jennifer Laine, MD

1:56 PM–2:00 PM

**Master Review Case
3 (Adolescent Crouch
Gait): Take Home Points**

Rachel Thompson, MD

CME BREAKOUT 2



12:45 PM–2:00 PM

Banda Sea

Ponseti Casting (Hands-on)

This session will provide a brief introduction with Ponseti casting and bracing tips and tricks followed by a Hands-on casting lab with ample opportunity to learn and practice. Braces will also be available to practice application.

Moderator: Maryse Bouchard, MD, MSc

12:45 PM–12:50 PM

Clubfoot Ponseti Video

Derek Kelly, MD, FAAOS,
FAOA

12:51 PM–12:56 PM

**5 Things to Do for the
Complex Clubfoot**

Javier Masquijo, MD

12:57 PM–1:03 PM

**5 Things Never to Do
When Casting Clubfeet**

Todd Milbrandt, MD

1:04PM–1:09 PM

**5 Things to Do for
Running the Optimal
Clubfoot Clinic**

Kenneth Noonan, MD,
MHCDS

1:10 PM–1:15 PM

**Clubfoot Bracing
Compliance Tricks**

Alaric Aroojis, MS, D'Ortho,
DNB

1:16 PM–2:00 PM

Hands-on Instruction

Hands-on Faculty:
L. Reid Boyce Nichols, MD,
FAOA, FAAOS
Derek Kelly, MD, FAAOS,
FAOA
Javier Masquijo, MD
Maryse Bouchard, MD, MSc
Kenneth Noonan, MD,
MHCDS
Alaric Aroojis, MS, D'Ortho,
DNB

2:05 PM–2:25 PM

Pacifica 6-7

Break and Exhibits

CARE THAT'S AHEAD OF THE CURVE

Here, we bring together pediatric research, sports medicine, surgery and rehabilitation all in one place. Our expertise draws patients from across the country and around the world. And with 10 subspecialties, we lead the nation in personalized orthopedic care just for kids.

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4,000+

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Learn more about how we're advancing pediatric orthopedic care.



Children's Hospital Colorado
Orthopedics Institute



CONCURRENT SESSION 2



2:30 PM–4:00 PM Oceana Grand 2-5

Upper Extremity and Sports Case-Based Learning

Shoulder, elbow, and wrist instability are common and often challenging problems in the pediatric athlete. Join our esteemed experts for this case-based session on sports injuries of the upper limb!

Moderator: Donald Bae, MD
eModerator: Christine Ho, MD

2:30 PM–2:32 PM **Introduction**
Moderator: Donald Bae, MD

2:33 PM–2:38 PM **Ulnar Sided Wrist Pain: A Black Box?**
Lindley Wall, MD, MSc

2:39 PM–2:46 PM **ECU Instability: Case**
Andrea Bauer, MD

2:47 PM–2:54 PM **Ulnar Impaction Secondary to Gymnast Wrist: Case**
Julie Samora, MD, PhD

2:55 PM–3:02 PM **Discussion**
Lindley Wall, MD, MSc
Andrea Bauer, MD
Julie Samora, MD, PhD

3:03 PM–3:08 PM **Scapula Alata: Diagnosis and Management**
Theodore Ganley, MD

3:09 PM–3:16 PM **SC Traumatic Fracture/Dislocation: Case**
Mininder Kocher, MD, MPH

3:17 PM–3:24 PM **AC Joint: A Case of Separation Anxiety**
Eric Edmonds, MD

3:25 PM–3:32 PM **Discussion**
Theodore Ganley, MD
Mininder Kocher, MD, MPH
Eric Edmonds, MD

3:33 PM–3:38 PM

Elbow Dislocations and Sequelae
Christine Ho, MD

3:39 PM–3:46 PM

Elbow Dislocation with Medial Epicondyle Fracture
Julie Samora, MD, PhD

3:47 PM–3:54 PM

My Elbow Is Stiff: Now What?
Andrea Bauer, MD

3:55 PM–4:00 PM

Discussion
Christine Ho, MD
Julie Samora, MD, PhD
Andrea Bauer, MD

CONCURRENT SESSION 2



2:30 PM–4:00 PM Oceana Grand 6-7

When a Clubfoot That Isn't Just a Clubfoot—Managing Clubfeet in Infants with Syndromes and Multiple Deformities

This session will discuss complexities and controversies in clubfoot management of children with concurrent medical and orthopaedic issues.

Moderator: Maryse Bouchard, MD, MSc

2:30 PM–2:32 PM **Welcome Remarks**
Moderator: Maryse Bouchard, MD, MSc

2:33 PM–2:58 PM Clubfoot in the Infant with Concurrent Orthopaedic and Medical Diagnoses
Moderator: Maryse Bouchard, MD, MSc

2:33 PM–2:38 PM **The Infant with Clubfoot and DDH**
Mihir Thacker, MD

2:39 PM–2:44 PM **The Infant with Ipsilateral Clubfoot and Congenital Knee Dislocation**
Alaric Aroojis, MS,
D'Ortho, DNB



2:45 PM–2:50 PM **The Infant with Clubfoot Requiring a Prolonged NICU Admission**
Derek Kelly, MD, FAAOS, FAOA

2:51 PM–2:58 PM **Discussion**
Maryse Bouchard, MD, MSc
Mihir Thacker, MD
Alaric Aroojis, MS, D'Ortho, DNB
Derek Kelly, MD, FAAOS, FAOA

2:59 PM–3:28 PM The Stiff Non-Idiopathic Clubfoot
Moderator: Alaric Aroojis, MS, D'Ortho, DNB

2:59 PM–3:05 PM **The Infant with a Stiff Arthrogryposis Clubfoot**
L. Reid Boyce Nichols, MD, FAOA, FAAOS

3:06 PM–3:12 PM **The Infant with an Equinovarus Foot with Fibular Hemimelia**
Anthony Riccio, MD

3:13 PM–3:19 PM **The Infant with a Clubfoot and Amniotic Bands**
Javier Masquijo, MD

3:20 PM–3:28 PM **Discussion**
Alaric Aroojis, MS, D'Ortho, DNB
L. Reid Boyce Nichols, MD, FAOA, FAAOS
Anthony Riccio, MD
Javier Masquijo, MD

3:29 PM–4:00 PM The Neuromuscular and Syndromic Clubfoot
Moderator:
Anthony Riccio, MD

3:29 PM–3:35 PM **Clubfoot in Children with Trisomy 21**
Kenneth Noonan, MD, MHCDS

3:36 PM–3:42 PM **Clubfoot in Children with Spina Bifida**
Vishwas Talwalkar, MD, FAAOS

3:42 PM–3:48 PM **The Undiagnosed Paralytic Clubfoot**
Jaime Rice Denning, MD

3:49 PM–4:00 PM **Discussion**
Anthony Riccio, MD
Kenneth Noonan, MD, MHCDS
Vishwas Talwalkar, MD, FAAOS
Jaime Rice Denning, MD

3:00 PM–3:45 PM South China Sea Pavlik on the Go (Hands-on) 

Join the faculty for a Hands-on experience to learn bracing tips and tricks, including the Pavlik method and other commonly used braces used to treat hip dysplasia.

Hands-on Faculty:
Wudbhav (Woody) Sankar, MD
Simon Kelley, MBChB, PhD, FRCS
Pablo Castañeda, MD
Kishore Mulpuri, MBBS, MS, MHSc, FRCSC
Valerie Parrish, PA-C

3:00 PM–3:45 PM South China Sea Halo on the Go (Hands-on) 

Brief introduction with Halo tips and tricks with the opportunity to learn and practice on a simulator with real equipment.

Hands-on Faculty:
Firoz Miyanji, MD, FRCSC
Ron El-Hawary, MD, MSc, FRCS(C)
Jennifer Bauer, MD, MS
Michael Glotzbecker, MD
Burt Yaszay, MD
John Lovejoy III, MD, FAAOS
Suken Shah, MD, FAOA, FAAOS

5:00 PM–7:30 PM **Top Gun Surgical Skills Competition (non-CME)**
(by invitation only)



Industry Spotlight Session 3

10:35 AM–11:35 AM

OrthoPediatrics (Non-CME) Coral Sea

Ron El-Hawary, MD, MSc, FRCS(C);
Scott Luhmann, MD

Motion Preservation Options in the EOS and AIS Patient Population—Advancements in Guided Growth and Posterior Distraction

The technologies highlighted in this session allow maintenance of growth and motion in two distinct patient populations. Appropriate patient selection and surgical technique review will be discussed.

OrthoPediatrics (Non-CME) Java Sea

Marie Gdalevitch, MD; Mark Seeley, MD

Treatment Choices for SCFE – What to Choose and When?

Unique implants allow for continued growth of patient after SCFE while a more traditional approach is to fuse the patient post-SCFE. This session will explore what to use and when, how to handle post SCFE deformities, and impact of contralateral pinning.

nView Medical (Non-CME) Timor Sea

Kali Tileston, MD, FAAOS; Matthew Oetgen, MD, MBA; Allen Kadado, MD; V. Salil Upasani, MD

Next Generation Pediatric 3D Imaging and Navigation—Simplifying Your Current Surgical Workflow

Hands-on experience with the nView S1 imaging system. Demonstrating one system can localize, navigate, verify screw placement, and stitch a final image together with a dramatic reduction in radiation.

Medtronic (Non-CME) Pacifica 3-5

Nicholas Fletcher, MD; Mark Erikson, MD

The Evolving Role of AI, Navigation, and Robotics in Pediatric Deformity

The next disruptive advances in pediatric spine surgery are happening now. Medtronic is leading this revolution by integrating powerful complementary technologies: artificial intelligence driven surgical planning, personalized spinal implants, navigation, and robotic-assisted surgical delivery, which together advance standardization and reduce variability. This workshop will provide a unique opportunity to discover how spine surgeons are incorporating these integrated solutions into their practice and how Medtronic is accelerating the transition to a new era of personalized medicine to deliver optimal patient care.

Ortho ix (Non-CME) Pacifica 8-10

David Podeszwa, MD; David Frumberg, MD

Radiolucent Circular Fixation: An enLIGHTening New Vision for Pediatrics

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

Pacira Biosciences (Non-CME) Pacifica 11-12

Suken Shah, MD, FAOA, FAAOS;
Robert Cho, MD, FAAOS

Post-Surgical Pain Management in Children—Achieving Opioid Minimization

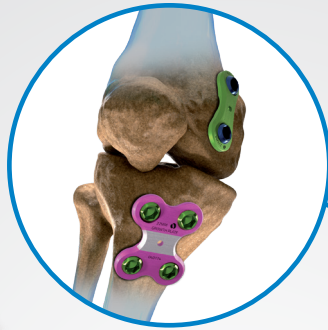
Join us for an interactive presentation where we will discuss key insights that led pediatric scoliosis spine surgeons to change their pain management protocols. We will also review the data that led to FDA approval of the first and only long-acting local-anesthetic in pediatrics. Our featured speakers will share their experience utilizing EXPAREL® (bupivacaine liposome injectable suspension) in adolescent idiopathic spine surgery and demonstrate how their administration technique evolved from surgical site infiltration to fascial plane infiltration for an Erector Spinae Plane (ESP) block. Multimodal protocols, recovery milestones, and implementation best practices will also be reviewed.

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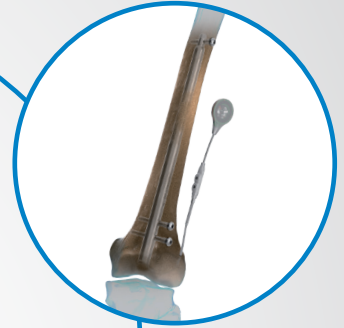
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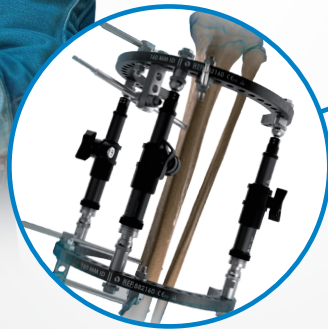
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ORTHOFIX®



Friday, December 8

7:00 AM–3:00 PM **Registration**

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

CONCURRENT SESSION 3



8:05 AM–9:35 PM **Pacifica 3-5**

Course for Mid-Career Surgeons

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? Join us for the interactive Leadership Institute, Teach the Teacher 2.0, and a panel discussion for new leaders.

Moderator: James McCarthy, MD
Moderator: Suken Shah, MD, FAOA, FAAOS

8:05 AM–8:30 AM **IPOS® XC Leadership Institute**
 Moderator:
 James McCarthy, MD

8:05 AM–8:09 AM **Managing Your Team**
 Peter Waters, MD, MMSc

8:10 AM–8:14 AM **Managing Up**
 Daniel Sucato, MD, MS

8:15 AM–8:19 AM **Managing Your Micro-Environment: What's Your Currency?**
 Michael Vitale, MD, MPH

8:20 AM–8:24 AM **Managing Your Emotional Intelligence (EQ 101)**
 Jeffrey Sawyer, MD

8:25 AM–8:30 AM **Discussion**
 Moderator:
 James McCarthy, MD
 Panelists:
 Daniel Sucato, MD, MS
 Jeffrey Sawyer, MD

8:31 AM–8:54 AM **Teach the Teacher 2.0**
 Craig Ebersson, MD, FAOA
 Thomas McPartland, MD
 Sandra Jarvis-Selinger, PhD

8:55 AM–9:00 AM **Discussion**
 Craig Ebersson, MD, FAOA
 Thomas McPartland, MD
 Sandra Jarvis-Selinger, PhD

9:00 AM–9:06 AM **Answering Challenging Questions and Messaging with Intention (Media Training)**
 Sandra Jarvis-Selinger, PhD

9:07 AM–9:12 AM **Soliciting Feedback to Improve Leadership Skills**
 James McCarthy, MD

9:13 AM–9:29 AM **I Just Became Division Chief ... Now What?**
 Moderator:
 James McCarthy, MD
 Panelists:
 Michael Glotzbecker, MD
 Corinna Franklin, MD
 Lindley Wall, MD, MSc
 Burt Yaszay, MD

9:30 AM–9:35 AM **Changing Jobs Mid Career—Opportunities and Challenges**
 Todd Milbrandt, MD



“It’s a really big deal to be able to collaborate with APPs, residents, and physicians at IPOS® and then translate that back to what we are doing at our home institutions.”

Valerie Parrish, PA-C



CONCURRENT SESSION 3



8:05 AM–9:35 PM Oceana Grand 6-7

Femoroacetabular Impingement: Where Are We in 2023?

This session will highlight the state of the art in treatment of FAI, etiology, and diagnosis.

Moderator: Jonathan Schoenecker, MD, PhD

- 8:05 AM–8:10 AM **FAI Is More Than Just Cam**
Jonathan Schoenecker, MD, PhD
- 8:11 AM–8:16 AM **Is It FAI or Is It Normal?**
Mininder Kocher, MD, MPH
- 8:17 AM–8:22 AM **Where's This Stuff Coming From? Theories on the Etiology of FAI**
Jennifer Laine, MD
- 8:23 AM–8:28 AM **Natural History of FAI**
Wudbhav (Woody) Sankar, MD
- 8:29 AM–8:34 AM **Questions**
Jonathan Schoenecker, MD, PhD
Mininder Kocher, MD, MPH
Jennifer Laine, MD
Wudbhav (Woody) Sankar, MD
- 8:35 AM–8:40 AM **Arthroscopy for FAI: Pelvic Side; Technique and Results**
Henry Ellis, MD
- 8:41 AM–8:46 AM **Acetabular Retroversion: When to Work on the Pelvis**
V. Salil Upasani, MD
- 8:47 AM–8:52 AM **Arthroscopy for FAI: Femoral Side; Technique, and Results**
Manoj Ramachandran, MD, FRCS (Orth)

8:53 AM–8:58 AM

SHD: When is Open the Better Way to Go for FAI?

Daniel Sucato, MD, MS

8:59 AM–9:04 AM

Questions

Henry Ellis, MD
V. Salil Upasani, MD
Manoj Ramachandran, MD, FRCS (Orth)
Daniel Sucato, MD, MS

9:05 AM–9:35 AM

Challenging FAI Cases

Moderator: Jonathan Schoenecker, MD, PhD
Panelists:
Manoj Ramachandran, MD, FRCS (Orth)
Henry Ellis, MD
V. Salil Upasani, MD
Daniel Sucato, MD, MS
Mininder Kocher, MD, MPH

CONCURRENT SESSION 3



8:05 AM–9:35 PM Oceana Grand 2-5

Neuromuscular Scoliosis and Syndromic Spine

Complex spine topics for neuromuscular and syndromic patients who require optimization before life-changing surgery. Faculty review preoperative, intraoperative, and postoperative care pathways to get the job done well.

Moderator: Ron El-Hawary, MD, MSc, FRCS(C)

eModerator: Lindsay Andras, MD

- 8:05 AM–8:10 AM **Neuromuscular Scoliosis: The Biomechanics of Deformity Correction: Tips and Tricks on How to Correct an NM Curve**
Burt Yaszay, MD
- 8:11 AM–8:16 AM **The Role and Value of Traction in NM Deformity**
Scott Luhmann, MD



8:17 AM–8:22 AM **Stopping Short of the Pelvis: When You Can and When You Shouldn't**
Lindsay Andras, MD

8:23 AM–8:28 AM **Discussion**
Burt Yaszay, MD
Scott Luhmann, MD
Lindsay Andras, MD

8:29 AM–8:34 AM **Setting the Stage: What Is Quality, Safety, Value, in Spine and Healthcare and How Is the Landscape Is Changing?**
Michael Vitale, MD, MPH

8:35 AM–8:40 AM **Optimizing the Patient's Surgical Journey I: How to Optimize and Prepare the NM Patient Preoperatively**
Robert Cho, MD, FAAOS

8:41 AM–8:46 AM **Optimizing the Patient's Surgical Journey II: Operating Room Team Culture—How to Build It and Why It Helps**
Firoz Miyajji, MD, FRCS

8:47 AM–8:52 AM **Optimizing the Patient's Surgical Journey III: Care Pathways and ERAS in NM patients. Is This Feasible and the Future Model of Care Delivery?**
Nicholas Fletcher, MD

8:53 AM–8:58 AM **Discussion**
Michael Vitale, MD, MPH
Robert Cho, MD, FAAOS
Firoz Miyajji, MD, FRCS
Nicholas Fletcher, MD

8:59 AM–9:04 AM **My Approach to DMD and SMA in 2023—How Medical Management Has Changed My Practice**
Michelle Welborn, MD

9:05 AM–9:10 AM **My 5 Pearls for Managing Myelomeningocele Spinal Deformity**
Jeffrey Sawyer, MD

9:11 AM–9:16 AM **Neuromuscular Scoliosis Tweeners: The Rationale for Early Fusion**
Craig Louer Jr., MD

9:17 AM–9:35 AM **Rapid Fire Case Panel: Neuromuscular Spine Deformity**
Moderator: Ron El-Hawary, MD, MSc, FRCS(C)
Panelists:
Jeffrey Sawyer, MD
Nicholas Fletcher, MD
Scott Luhmann, MD
Jeff Martus, MD, MS
Michelle Welborn, MD

APP CME BREAKOUT 3



8:05 AM–9:35 AM **Banda Sea**

Respect the Past, Embrace the Future—Recent Advances in Treatment Options for Common Sports Injuries in the Adolescent Athlete

The participant will be introduced to the top changes and advancements in treatment options and surgeries for common sports injuries. The participants will have an opportunity to learn ultrasound-guided joint injections and aspirations through a Hands-on portion.

Moderator: Ray Kleposki, MSN, CPNP

8:05 AM–8:11 AM **Don't Play Through the Pain—Treatment Options for Shoulder Injuries**
Ben Johnson, PA-C

8:12 AM–8:18 AM **It's Up for Debate—Treatment of Common Elbow Injuries in the Adolescent Athlete**
Henry Ellis, MD



8:19 AM–8:27 AM	Discussion Ben Johnson, PA-C Henry Ellis, MD
8:28 AM–8:34 AM	Lights, Camera, Action– Hip Arthroscopy Valerie Parrish, PA-C
8:35 AM–8:41 AM	When Surgery Is the Only Option–Advances in Surgical Treatment of ACL Injuries Lauren Hewins, PA-C
8:42 AM–8:48 AM	Tips and Tricks for Management of Foot and Ankle Injuries Christopher Tremonti, PA-C
8:49 AM–8:57 AM	Discussion Valerie Parrish, PA-C Lauren Hewins, PA-C Christopher Tremonti, PA-C
8:58 AM–9:35 AM	Hands-on–Ultrasound Guided Joint Injections/ Aspirations Hands-on Faculty: Pablo Casteñeda, MD Valerie Parrish, PA-C
9:40 AM–10:00 AM	Break and Exhibits Pacifica 6-7
10:05 AM–11:05 AM	Industry Spotlight Sessions 4 (non-CME) See page XXX for details
11:10 AM–12:10 PM	Lunch and Exhibits Pacifica 6-7
11:40 AM–12:10 PM	Lunchtime Career Development (non-CME) Pacifica 6-7

GENERAL SESSION 3



12:15 PM–2:15 PM **Oceana Grand 6-7**

Author's Preferred Techniques

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

Moderator: Suken Shah, MD, FAOA, FAAOS
eModerator: Christine Ho, MD

12:15 PM–12:16 PM	Introduction Co-Director: Suken Shah, MD, FAOA, FAAOS
12:17 PM–12:22 PM	Tibial Tubercle Periosteum Transfer (TTPT) for Patella Instability Javier Masquijo, MD
12:23 PM–12:28 PM	Modified Brostrom Repair for Ankle Instability Eric Edmonds, MD
12:29 PM–12:34 PM	Patellar Sleeve Fracture: Recognition and Management Corinna Franklin, MD
12:35 PM–12:40 PM	Discussion Moderator: Suken Shah, MD, FAOA, FAAOS eModerator: Christine Ho, MD
12:41 PM–12:46 PM	First MTP Arthrodesis M. Wade Shrader, MD
12:47 PM–12:52 PM	Cavus Foot Reconstruction Anthony Riccio, MD
12:53 PM–12:58 PM	Intraoperative Distraction for Severe Spinal Deformity Robert Cho, MD, FAAOS



12:59 PM–1:04 PM	Discussion Moderator: Suken Shah, MD, FAOA, FAAOS eModerator: Christine Ho, MD
1:05 PM–1:10 PM	Hybrid Spine Surgery: Selective Thoracic Fusion and Lumbar Vertebral Body Tethering Firoz Miyanji, MD, FRCS
1:11 PM–1:16 PM	Machine Vision Image Guided Navigation in Spine Surgery Derek Kelly, MD, FAAOS, FAOA
1:17 PM–1:22 PM	Modified Bohlman Procedure for High-Grade Spondylolisthesis Reconstruction Suken Shah, MD, FAOA, FAAOS
1:23 PM–1:28 PM	Discussion Moderator: Suken Shah, MD, FAOA, FAAOS eModerator: Christine Ho, MD
1:29 PM–1:34 PM	Pollicization: How to Do It and What Not to Do Julie Samora, MD, PhD
1:35 PM–1:40 PM	ORIF of Thumb Salter-Harris 3 Fracture (Pediatric Gamekeeper) Donald Bae, MD
1:41 PM–1:46 PM	Distal Femoral Physeal Fractures: Pearls and Pitfalls Simon Kelley, MBChB, PhD, FRCS
1:47 PM–1:52 PM	Discussion Moderator: Suken Shah, MD, FAOA, FAAOS eModerator: Christine Ho, MD

1:53 PM–1:58 PM	Combo PAO/SHD and Osteochondral Allograft for Symptomatic Femoral Head OCD Daniel Sucato, MD, MS
1:59 PM–2:04 PM	Reconsidering How You Should Code for Fractures Matthew Oetgen, MD, MBA
2:05 PM–2:10 PM	Why and How to Be a Better Listener Lindsay Andras, MD
2:11 PM–2:15 PM	Discussion and Audience Voting Moderator: Suken Shah, MD, FAOA, FAAOS eModerator: Christine Ho, MD
2:15 PM–2:30 PM	Awards: Presentation of Resident Cases, Top Gun, and Author's Preferred Techniques Co-Director: Derek Kelly, MD, FAAOS, FAOA

2:35 PM–2:55 PM **Break and Exhibits**
Pacifica 6-7

CME BREAKOUT 3



3:00 PM–4:15 PM **Banda Sea**

Congenital Vertical Talus: Topic Update and Hands-on Casting

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

3:00 PM–3:05 PM	Welcome Remarks Moderator: Maryse Bouchard, MD, MSc
3:05 PM–3:12 PM	CVT—Making the Diagnosis and Initial Assessment Todd Milbrandt, MD



3:13 PM–3:20 PM	Serial Casting Technique for CVT Jaime Rice Denning, MD	3:06 PM–3:11 PM	AI in Medical Imaging: Taking Ideas to Market Manoj Ramachandran, MD, FRCS (Orth)
3:21 PM–3:28 PM	Initial Surgical Management and Pinning the Talonavicular Joint Javier Masquijo, MD	3:12 PM–3:17 PM	AI and Medical Ethics Jennifer Bauer, MD, MS
3:29 PM–3:36 PM	What to Do When Initial Management Fails Maryse Bouchard, MD, MSc	3:18 PM–3:24 PM	Discussion Kevin Shea, MD Manoj Ramachandran, MD, FRCS (Orth) Jennifer Bauer, MD, MS
3:37 PM–3:44 PM	Managing the Arthrogyrotic or Syndromic CVT Anthony Riccio, MD	3:25 PM–3:30 PM	Bringing Digital Solutions to Pediatric Orthopaedics Kevin Shea, MD
3:45 PM–4:15 PM	CVT Casting (Hands-on) Hands-on Faculty: Maryse Bouchard, MD, MSc Todd Milbrandt, MD Jaime Rice Denning, MD Javier Masquijo, MD Anthony Riccio, MD Derek Kelly, MD, FAAOS, FAOA	3:31 PM–3:36 PM	Healthcare Data: Moving from Web 2.0 to 3.0 Manoj Ramachandran, MD, FRCS (Orth)
		3:37 PM–3:43 PM	Discussion Kevin Shea, MD Manoj Ramachandran, MD, FRCS (Orth)

CME BREAKOUT 3



3:00 PM–4:15 PM **Pacifica 3-5**

Course for Mid-Career Surgeons

Digital innovation in pediatric orthopaedics: from AI to social media. PLUS, we've added a can't miss session on personal financial management.

Moderator: James McCarthy, MD

Moderator: Kevin Shea, MD

3:00 PM–3:43 PM **Digital Solutions in Peds Ortho**

3:00 PM–3:05 PM **Integrating Imaging Into Pediatric Orthopaedics: Current and Future Opportunities**
 Kevin Shea, MD

3:44 PM–3:49 PM **EMR Hacks to Improve Wellness and Patient Experience**
 Matthew Oetgen, MD, MBA

3:50 PM–3:55 PM **Social Media in Your Practice**
 Craig Louer Jr., MD
 Jaysson Brooks, MD

3:56 PM–4:01 PM **Don't Make These Social Media Mistakes**
 Robert Cho, MD, FAAOS

4:02 PM–4:15 PM **Financial Management for the Mid-Career Orthopaedic Surgeon**
 Ian Rose LACP, CRES



CME BREAKOUT 3



3:00 PM–4:15 PM

Pacifica 8-10

Growth Modulation of the Spine

Experts discuss and debate the latest in growth assessment, modulation, and VBT. Faculty will also cover patient assessment, selection, and best practices in this session.

Moderator: Stefan Parent, MD, PhD, FRCS(C)

- | | |
|-----------------|--|
| 3:00 PM–3:01 PM | Introduction
Moderator: Stefan Parent, MD, PhD, FRCS(C) |
| 3:01 PM–3:06 PM | Spinal Growth: Current Concepts and Best Methods to Predict
Michelle Welborn, MD |
| 3:07 PM–3:12 PM | Brace Treatment for Scoliosis: Best Practices
Kali Tileston, MD, FAAOS |
| 3:13 PM–3:18 PM | VBT: Ideal Patient Selection and the Preop Discussion
Stefan Parent, MD, PhD, FRCS(C) |
| 3:19 PM–3:25 PM | VBT: Tips/Tricks and Complication Avoidance
Firoz Miyanji, MD, FRCS(C) |
| 3:26 PM–3:35 PM | Discussion
Michelle Welborn, MD
Kali Tileston, MD, FAAOS
Stefan Parent, MD, PhD, FRCS(C)
Firoz Miyanji, MD, FRCS(C) |
| 3:36 PM–3:39 PM | Debate: Lenke 1C, 3C, and 6C Curves in Skeletally Immature, Active Patient
Ron El-Hawary, MD, MSc, FRCS(C) |

3:40 PM–3:45 PM

Best Treatment: Fusion
Suken Shah, MD, FAOA, FAAOS

3:46 PM–3:51 PM

Best Treatment: Single or Bilateral VBT
Stefan Parent, MD, PhD, FRCS(C)

3:52 PM–3:57 PM

Best Treatment: Hybrid
Burt Yaszay, MD

3:58 PM–4:15 PM

Debate Summary and Discussion with Case Examples
Firoz Miyanji, MD, FRCS(C)
Ron El-Hawary, MD, MSc, FRCS(C)
Stefan Parent, MD, PhD, FRCS(C)
Burt Yaszay, MD
Suken Shah, MD, FAOA, FAAOS

CME BREAKOUT 3



3:00 PM–4:15 PM

Timor Sea

Pelvic Osteotomies Part 2: Triple, PAO (Hands-on)

Part 2: Triple and Periacetabular Osteotomies

Moderator: Daniel Sucato, MD, MS

- | | |
|-----------------|---|
| 3:00 PM–3:09 PM | PAO
Daniel Sucato, MD, MS |
| 3:10 PM–3:19 PM | Triple Osteotomy
V. Salil Upasani, MD |
| 3:20 PM–4:15 PM | Table Instruction
Hands-on Faculty:
Daniel Sucato, MD, MS
Jonathan Schoenecker, MD, PhD
Wudbhav (Woody) Sankar, MD
V. Salil Upasani, MD
Thomas McPartland, MD
Pablo Castañeda, MD |



Industry Spotlight Session 4

10:05 AM–11:05 AM

BioMarin Pharmaceuticals
(Non-CME)

Coral Sea

Klane White, MD

Skeleta I Dysplasia Diagnosis for the Pediatric Orthopaedic Surgeon: Changing the Paradigm

Clinicians around the globe are changing the paradigm toward an etiology-driven approach for diagnosis of skeletal dysplasia. In this session, Dr. Klane White will discuss the following topics:

- Diagnostic challenges in patients with skeletal dysplasia
- How accurate diagnosis of these patients may be facilitated by genetic testing
- Practical considerations for implementing genetic testing in the diagnostic work-up

OrthoPediatrics (Non-CME)

Java Sea

Roger Widmann, MD; Christine Hardesty, MD; Stefan Parent, MD, PhD, FRCS

Navigating the Spine—Choose Your Own Adventure

Choose your own adventure! Come learn about the various navigation technologies out there for spinal surgery, including robotics, patient-specific pedicle screw guides, and image-guided navigation systems. You will hear from the experts about what unmet needs are being addressed and what the future looks like for each, how the technologies fit in clinical practice, and the challenges associated with each—all helping you form a perspective on which might fit best in your practice. The session will feature talks from experts in each area, a moderated faculty discussion, and Q&A with the participants.

DePuy Spine (Non-CME)

Pacifica 8-10

Suken Shah, MD, FAOA, FAAOS; Craig Louer Jr., MD; Michelle Welborne, MD; Ryan Fitzgerald, MD

Complex Spine: Optimizing AIS Correction

Join our faculty to learn how to optimize AIS correction through level selection, derotation techniques, and rod materials. Round out the workshop with a hands-on rod bending session on differential rod contouring featuring DePuy Synthes's innovative treatment option for complex pediatric spine patients: the ALTALYNE Ultra Alignment System.

Globus Medical (Non-CME)

Pacifica 11-12

Juan Carlos Rodriguez-Olaverri, MD, PhD

Latest Trends in Vertebral Body Tethering

Faculty will discuss deformity correction for skeletally immature AIS patients through the application of the innovative REFLECT™ Scoliosis Correction System, which is a U.S. Humanitarian device. Attendees will have the opportunity to delve into various aspects of non-fusion deformity correction surgery, such as patient selection, preoperative planning, and surgical techniques, through the utilization of REFLECT™. The workshop will conclude with clinical case examples and a live Q&A.

ALTALYNE™

Ultra Alignment System

Elevate Your Expectations

- » Designed to address intraoperative rod flattening
- » Greater bending yield strength in a smaller profile compared to a 6.0mm CoCr Rod¹

References:

1. DePuy Synthes. Altalyne Calculation of Rod Bending Yield Strength and Stiffness Memorandum, June 7, 2022. Adaptiv #103782175 Rev. B

Please refer to the instructions for use for a complete list of indications, contraindications, warnings and precautions.

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221173-220718 DSUS





Saturday, December 10

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

8:00 AM–10:00 AM **Registration**

CONCURRENT SESSION 4



8:05 AM–9:35 AM Coral Sea

Managing Congenital Differences Below the Knee

Small Group Interactive Case-Based Learning on Lower Extremity Deficiencies Below the Knee

Moderator:
L. Reid Boyce Nichols, MD, FAOA, FAAOS

8:05 AM–8:07 AM **Introduction**
Moderator: L. Reid Boyce Nichols, MD, FAOA, FAAOS

8:08 AM–8:15 AM **Case 1: Congenital Differences: Working the Problem: Life Plans and Other Decision-Making**
Philip McClure, MD

8:16 AM–8:23 AM **Case 2: Congenital Differences: The Femur Bone Is Connected to the Shin Bones (Or Not)**
Christof Radler, MD

8:24 AM–8:32 AM **Discussion**
L. Reid Boyce Nichols, MD, FAOA, FAAOS
Philip McClure, MD
Christof Radler, MD
David Podeszwa, MD
Jeanne Franzone, MD
Mihir Thacker, MD
Anthony Riccio, MD

8:33 AM–8:39 AM **Case 3: Congenital Differences: SUPER SUPER: When to Address Both the Knee and Ankle in Fibular Hemimelia**
Philip McClure, MD

8:40 AM–8:48 AM **Discussion**
L. Reid Boyce Nichols, MD, FAOA, FAAOS
Philip McClure, MD
Christof Radler, MD
David Podeszwa, MD
Jeanne Franzone, MD
Mihir Thacker, MD
Anthony Riccio, MD

8:49 AM–8:55 AM **Case 4: Congenital Differences: This Ankle Is Dynamic!**
David Podeszwa, MD

8:56 AM–9:04 AM **Discussion**
L. Reid Boyce Nichols, MD, FAOA, FAAOS
Philip McClure, MD
Christof Radler, MD
David Podeszwa, MD
Jeanne Franzone, MD
Mihir Thacker, MD
Anthony Riccio, MD

9:05 AM–9:11 AM **Case 5: Congenital Differences: Something Is Not Quite Right!**
Jeanne Franzone, MD

9:12 AM–9:18 AM **Discussion**
L. Reid Boyce Nichols, MD, FAOA, FAAOS
Philip McClure, MD
Christof Radler, MD
David Podeszwa, MD
Jeanne Franzone, MD
Mihir Thacker, MD
Anthony Riccio, MD

9:19 AM–9:24 AM **Case 6: Congenital Differences: Can You Kick Me? Tibial Hemimelia**
L. Reid Boyce Nichols, MD, FAOA, FAAOS



9:25 AM–9:32 AM **Discussion**
 L. Reid Boyce Nichols, MD,
 FAOA, FAAOS
 Philip McClure, MD
 Christof Radler, MD
 David Podeszwa, MD
 Jeanne Franzone, MD
 Mihir Thacker, MD
 Anthony Riccio, MD

9:33 AM–9:35 AM **Wrap Up**
 L. Reid Boyce Nichols, MD,
 FAOA, FAAOS

CONCURRENT SESSION 4



7:30 AM–9:30 AM **Pacifica 8-10**

Course for Mid-Career Surgeons

This session is a must for fellowship program directors and all aspiring leaders in pediatric orthopaedics. We will dig into up-to-the-minute news on pediatric orthopaedic fellowships, the POSNA Workforce Initiative, skills for division chiefs, chairs, and practice leads... and don't miss the updates on coding and ABOS re-certification.

Moderator: James McCarthy, MD
Moderator: Suken Shah, MD, FAOA, FAAOS

7:30 AM–7:40 AM **Fellowship Update**
 Meghan Imrie, MD

7:41 AM–7:47 AM **POSNA Workforce Initiative Update**
 Wudbhav (Woody)
 Sankar, MD

7:48 AM–8:00 AM **Recruitment for Peds Ortho, Pipeline Options, and What Can We Do Everyday?** Moderator: James McCarthy, MD; Panelists: Corinna Franklin, MD; Jaysson Brooks, MD; Jennifer Bauer, MD, MS; Michelle Welborn, MD

8:01 AM–8:07 AM **PSSP Where Are We Now, What Your Center Needs to Know, Where Are We Going?** Kevin Shea, MD; Kali Tileston, MD, FAAOS

8:08 AM–8:18 AM **Innovations in Surgical Coaching**
 Benjamin Shore, MD, MPH,
 FRCS

8:19 AM–8:25 AM **Simulation in Pediatric Orthopaedic Education**
 Todd Milbrandt, MD

8:26 AM–8:31 AM **QI 101: How to Do a Hospital-Based Quality Project**
 Michael Glotzbecker, MD

8:32 AM–8:42 AM **Pediatric Orthopedic Coding: How the Sausage Gets Made**
 Kevin Neal, MD

8:43 AM–8:48 AM **How a Very Busy Surgeon Can Make PLENTY of Time for Family, Fun, and Volunteer Leadership**
 John (Jack) Flynn, MD

8:49 AM–8:56 AM **Mentorship: Paying It Forward**
 Suken Shah, MD, FAOA,
 FAAOS

8:57 AM–9:02 AM **Clinical Research: Intention to Action**
 John Lovejoy III, MD, FAAOS

9:03 AM–9:09 AM **ABOS Re-Certification: What's New and the WLA Pathway Explained**
 John (Jack) Flynn, MD



9:10 AM–9:20 AM **Compensation Models in Peds Ortho Drive Desired Behaviors and Institutional Strategy**
James McCarthy, MD

9:21 AM–9:30 AM **Discussion**
Moderator:
James McCarthy, MD

9:40 AM–10:00 AM **Break**
Pacifica 6-7

CME BREAKOUT 4



10:05 AM–11:20 AM Pacifica 8-10

Essentials of Pediatric Orthopaedics III

This session covers the basics of pediatric orthopaedics with a focus on recognition, evaluation, and treatment of common conditions. The information 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.

Moderator: Matthew Oetgen, MD, MBA

10:05 AM -10:10 AM **AIS, EOS, NM Scoli: Bracing, Casting, Therapy**
Lindsay Andras, MD

10:11 AM–10:16 AM **Spine Trauma**
Jennifer Bauer, MD, MS

10:17 AM–10:22 AM **Back Pain, Kyphosis, Spondy, Disc Disease**
Matthew Oetgen, MD, MBA

10:23 AM–10:31 AM **Discussion**
Matthew Oetgen, MD, MBA
Lindsay Andras, MD
Jennifer Bauer, MD, MS

10:32 AM–10:37 AM **Skeletal Dysplasias and Orthopaedic-Related Syndromes**
Robert Cho, MD, FAAOS

10:38 AM–10:43 AM **Practice Management: Practical Integration of Research into a Busy Clinical Practice**
Wudbhav (Woody) Sankar, MD

10:44 AM–10:52 AM **Discussion**
Matthew Oetgen, MD, MBA
Robert Cho, MD, FAAOS
Wudbhav (Woody) Sankar, MD

10:53 AM–10:58 AM **Child Abuse**
John (Jack) Flynn, MD

10:59 AM–11:04 AM **Lower Extremity Trauma in the Outpatient Setting**
John Lovejoy III, MD, FAAOS

11:05 AM–11:10 AM **Upper Extremity Trauma in the Outpatient Setting**
Christine Ho, MD

11:11 AM–11:20 AM **Discussion**
Matthew Oetgen, MD, MBA
John (Jack) Flynn, MD
John Lovejoy III, MD, FAAOS
Christine Ho, MD





CME BREAKOUT 4



10:05 AM–11:20 AM **Java Sea**

**Pediatric Upper Limb Surgery:
Concepts, Cases, and Controversies**

Join our internationally renowned faculty for this case-based discussion of challenging pediatric upper extremity conditions. From the fundamental concepts to late complications of treatment, we will explore the totality of care. There will be principles and pearls for providers of every level!

Moderator: Donald Bae, MD

10:05 AM–10:10 AM **Surgeons Are Not Replaceable!**
Donald Bae, MD

10:11 AM–10:15 AM **Madelung Deformity: Concepts**
Donald Bae, MD

10:16 AM–10:25 AM **Madelung Deformity: Case**
Julie Samora, MD, PhD
Donald Bae, MD
Andrea Bauer, MD
Christine Ho, MD

10:26 AM–10:31 AM **Madelung Deformity: WTF**
Christine Ho, MD

10:32 AM–10:36 AM **Arthrogyrotic Elbow: Concepts**
Julie Samora, MD, PhD

10:37 AM–10:47 AM **Arthrogyrosis Elbow: Case Presentation**
Andrea Bauer, MD
Donald Bae, MD
Julie Samora, MD, PhD
Lindley Wall, MD, MSc

10:48 AM–10:53 AM **Arthrogyrosis Elbow: WTF**
Lindley Wall, MD, MSc

10:54 AM–10:58 AM **Shoulder in Brachial Plexus Birth Injury: Concepts**
Donald Bae, MD

10:59 AM–11:07 AM **Shoulder in Brachial Plexus Birth Injury: Case**
Julie Samora, MD, PhD
Donald Bae, MD
Andrea Bauer, MD
Lindley Wall, MD, MSc

11:08 AM–11:13 AM **Shoulder in Brachial Plexus Birth Injury: WTF**
Andrea Bauer, MD

11:14 AM–11:20 AM **Summary**
Julie Samora, MD, PhD

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OF NORTH AMERICA

A website for kids & parents to learn about pediatric orthopaedic conditions, injury prevention, & treatment.

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CME BREAKOUT 4



10:05 AM–11:20 AM **Pacifica 11-12**

Reconstruct, Rotate, or Amputate? Difficult Decisions in Limb Reconstruction

This session will describe the key principles of pediatric lower limb amputation and prosthetic reconstructive options. This will be followed by debate-style discussions of treatment options for Congenital Pseudarthrosis of the Tibia, Proximal Focal Femoral Deficiency, and Fibular Hemimelia.

Moderator: Jeanne Franzone, MD

- 10:05 AM–10:06 AM **Introduction**
Jeanne Franzone, MD
Jennifer Laine, MD
- 10:07 AM–10:12 AM **Amputation Principles:
Early Keys to Long-Term
Success**
Jennifer Laine, MD
- 10:13 AM–10:18 AM **Multidisciplinary
Prosthesis Care:
Approach to Helping
Families Make Tough
Decisions, Ongoing
Follow-up**
Jeanne Franzone, MD
- 10:19 AM–10:24 AM **Maximizing Gait for
Pediatric Prosthetic
Patients**
Sheila Mason, PNP
- 10:25 AM–10:29 AM **Considerations in
Maximizing Long-Term
Outcomes for Patients
with Prostheses**
Mihir Thacker, MD
- 10:30 AM–10:33 AM **Debate 1: CPT–
Reconstruction**
Philip McClure, MD

- 10:34 AM–10:37 AM **Debate 1: CPT–
Amputation**
Mihir Thacker, MD
- 10:38 AM–10:47 AM **Discussion**
Philip McClure, MD
Mihir Thacker, MD
L. Reid Boyce Nichols, MD,
FAOA, FAAOS
David Podeszwa, MD
- 10:48 AM–10:51 AM **Debate 2: PFFD–
Rotationplasty**
David Podeszwa, MD
- 10:52 AM–10:55 AM **Debate 2: PFFD–
Amputation**
Jeanne Franzone, MD
- 10:56 AM–10:59 AM **Debate 2: PFFD–
Reconstruction**
Christof Radler, MD
- 11:00 AM–11:03 AM **Debate 3: Fibular
Hemimelia–Amputation**
Jennifer Laine, MD
- 11:04 AM–11:07 AM **Debate 3: Fibular
Hemimelia–
Reconstruction**
L. Reid Boyce Nichols, MD,
FAOA, FAAOS
- 11:08 AM–11:18 AM **Discussion**
David Podeszwa, MD
Jeanne Franzone, MD
Christof Radler, MD
Jennifer Laine, MD
L. Reid Boyce Nichols, MD,
FAOA, FAAOS
- 11:19 AM–11:20 AM **Conclusion**
Jeanne Franzone, MD
Jennifer Laine, MD

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

CINCINNATI CHILDREN'S ORTHOPEDICS

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In our relentless pursuit of improvement, we have partnered with many of you and we are **changing the outcome together.**

- Cincinnati Children's created Solutions for Patient Safety, now in over 140 children's hospitals, that has dramatically decreased patient harm
- POSNA's QSVI program, setting the standard for quality in Pediatric Orthopedics
- Cincinnati Children's is involved with 12 research and study groups.



THANK YOU!





FOOT

ePoster 1

Ability of the Area Deprivation Index to Predict Idiopathic Clubfoot Recurrence¹

Smitha E. Mathew, MBBS; *William Schaberg; Matthew E. Oetgen, MD, MBA*
Children's National Hospital, Washington, DC

ePoster 2

Is Computed Tomography Scan Necessary in the Preoperative Evaluation of Calcaneonavicular Tarsal Coalition?

Lauren M. Harte, MD; *Charles M. Gordon, MD; Corey T. Clyde, MD; Sonja Pavlesen, MD, MS;*
Jeremy P. Doak, MD
University at Buffalo, Buffalo, NY

ePoster 3

Putting a Better Foot Forward: Prospective Cohort Study of Flatfoot Reconstruction for Painful Pediatric Idiopathic Flexible Flatfoot

Christopher J. DeFrancesco, MD; *Matthew S. Conti, MD; Howard J. Hillstrom, PhD;*
John Blanco, MD; Silvia Zanini, MS; Emily Dodwell, MD, MPH; David M. Scher, MD
Children's Hospital of Philadelphia, Philadelphia, PA

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Understanding Clubfoot Recurrence: Insights from a Social Determinants Perspective

Tasha Garayo, MS; Nadim Kheir, MD; Maralexa Martínez-Valcárce; Robert Schmidt Cianchini;
Karim Masrouha, MD
NYU Langone Health, New York, NY

HAND & UPPER EXTREMITY

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Nathan Chaclas; *Scott Mahon; Joseph Yellin, MD; Christine Goodbody, MD, MBE;*
Apurva S. Shah, MD, MBA
The Children's Hospital of Philadelphia, Philadelphia, PA

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Does Fixation Type Affect Symptomatic Implant Removal Rates in Operatively Treated Pediatric Medial Epicondyle Fractures?

Matthew J. Siebert, MD; *Emily Zhang; Jayden Nicole Brennan; Aaron Wey, MD;*
Stephanie Holmes, MD; Christopher A. Makarewich, MD
University of Utah Health, Salt Lake City, UT



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Does Time to Surgery Impact Nerve Recovery in Supracondylar Humerus Fractures with Nerve Injury?

Mikaela H. Sullivan, MD; Brian D. Wahlig, MD; Samuel E. Broida, MD; A. Noelle Larson, MD; William J. Shaughnessy, MD; Anthony A. Stans, MD; Emmanouil Grigoriou, MD; Brandon J. Yuan, MD; Todd A. Milbrandt, MD
Mayo Clinic, Rochester, MN

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Jesse M. Galina; Sawyer Miller; Sonja Pavlesen, MD, MS; Michael R. Ferrick, MD
University at Buffalo, Buffalo, NY

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Jacob Smithey, MD; Hunter Gillon, MD; Kellie Leitch, MD
University of Mississippi Medical Center, Jackson, MS

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Who Should See My Kids? Clavicle Fracture Management across Orthopaedic Subspecialties

Robert W. Gomez, MD; Dustin A. Greenhill, MD; Zachary J. Lamb; David Jessen; Morgan Storino
St. Luke's University Health Network, Bethlehem, PA

HIP

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An Investigation into the Public's Most Frequently Asked Questions About Developmental Dysplasia of the Hip and Evaluating Online Information About Management and Treatment

Elizabeth Garrett; Christena Abraham; **Madison Blackwell, DO;** Samuel Shepard, DO; Nicholas Sajjadi, DO; Brylie Schafer, DO; Mark Schwarz, DO; Steven Brown, DO
Oklahoma State University, Tulsa, Oklahoma

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Samantha L. Ferraro; Anthony K. Chiu; Tanner Seibold; Alex Gu, MD; Amil R. Agarwal; Savyasachi Thakkar, MD; **Ahmed Elabd, MD;** Sean A. Tabaie, MS, MD, FAAOS
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Olivia Dyer; Benjamin Wheatley, PhD; **Mark Seeley, MD**
Geisinger Medical Center, Danville, PA



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Chaitrali Gundawar; Udit Vinayak, MS Orth, DNB Orth; Parag Sancheti, MS Orthopaedics, DNB Orth; Sandeep V. Vaidya, MS Orthopaedics, DNB Orth; Mandar V. Agashe, MS Orth; Sandeep Patwardhan, MS Orth
SRCC Childrens Hospital, Mumbai, India

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Ian Hollyer; Taylor R. Johnson; Harsh Wadhwa; Michael J. Chen; Stephanie Y. Pun, MD; Michael J. Bellino
Stanford University, Palo Alto, CA

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Hospital Universitario La Paz, Madrid, Spain

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Correggio L. Peagler Jr.; Philip M. Parel; Anthony K. Chiu; Savyasachi Thakkar, MD; Sean Tabaie, MD, FAAOS
George Washington University, Washington, DC

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Trenton P. Sprenkle; Alexander CM Chong; Jordan Shearer; Brandon Fisher; Brian R. Sauer, MD
University of North Dakota, Fargo, ND

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A Midterm Follow-Up of Trident Fixation Technique for Pediatric Knee Arthrodesis with Recycled Bone Graft

Yu-Min Lin, MD, PhD; Yuan-Ya Liao, MD, PhD
Taichung Veterans General Hospital, Taichung, Taiwan

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Natalia Penelas Abelleira; Pedro González Herranz; Llanos Rodríguez Rodríguez; Clara Domenech Bendaña; Miguel Castro Torre
Hospital Materno Infantil Teresa Herrera, A Coruña, Spain



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*B. Tanner Seibold; Theodore Quan, MD; Jordan Pizzarro; Benjamin Farley, MD; **Ahmed Elabd, MD;** Sean A. Tabaie, MS, MD, FAAOS*

Children's National Hospital, Washington, DC

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Computer Prediction of Pediatric Occult Ankle Fracture Using Assessment of Non-Weight Bearing and X-Ray Measures of Acute Swelling

*Denise Kerut, MD; **Srikanth Mudiganty, MD;** Joseph A. Gonzalez, MD*

Childrens Hospital New Orleans, New Orleans, LA

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***Chaitrali Gundawar, D. Orthopaedic;** Atul Bhaskar, MS Ortho; Mayuri Lad;*

Chasanal Rathod, MS Ortho

SRCC Children's Hospital, Mumbai, India

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*Carla M. Bridges, MD; Laura I. Marrero; **Melissa Esparza, MD***

Phoenix Children's Hospital, Phoenix, AZ

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Kiranpreet Nagra; Erikson Nichols; Peter Cirrincione; Akshitha Adhiyaman; John Blanco, MD;

*David Scher, MD; Shevaun M. Doyle, MD; **Emily Dodwell, MD, MPH***

Hospital for Special Surgery, New York, NY

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*Kwangwon Park, MD, PhD; **Stefano Cardin, MD;** Bensen Fan, MD; James Toledano, MD;*

Mark Birnbaum, MD; José A. Herrera-Soto, MD

Orlando Health, Arnold Palmer Hospital for Children, Orlando, FL

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Kiranpreet Nagra; Peter Cirrincione; Erikson Nichols, MS, MMS; Olivia C. Tracey; Julia Retzky, MD;

Kathryn Barth, MD; Noah Cha, MD; Jessica Heyer, MD; Shevaun M. Doyle, MD;

Emily Dodwell, MD, MPH

Hospital for Special Surgery, New York, NY



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Orthopedic Fixation of Skeletally Immature Ankle Fractures in Children and Adolescents Using Bio-Integrative Implants

Mark Solomon, DPM, FACFAS; David Lin, MD, FAAOS; **Evan McNall**; Joslin Seidel, DPM, AACFAS; Hannah Schneiders, DPM

The Pediatric Orthopedic Center, Cedar Knolls, NJ

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Bianca Parker, MS; Frass Ahmed; Erickson Andrews, MD; **Walter H. Truong, MD, FAOA, FAAOS** Gillette Children's, Saint Paul, MN

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Tara A. Saxena, MD; Joseph Andary, MPH; Philip E. Gates, MD

Louisiana State University Shreveport Health Sciences, Shreveport, LA

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London Health Sciences Centre, London, ON

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Jared M. May; **Emily L. DeMaio, MD**; Jill E. Larson, MD

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

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Anthony K. Chiu; Sarah Dance; Samantha L. Ferraro; Alana O'Mara, MD; **Ahmed Elabd, MD**; Savyasachi C. Thakkar, MD; Sean Tabaie, MD

Children's National Hospital, Washington, DC



QUALITY, SAFETY, AND VALUE INDICATORS

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Neeraj Mishra, MRCSEd; Nicole Kim Luan Lee, PhD; Liang Hui Loo, BSc(Hons); Kai Yet Lam, FRCSEd(Orth); Kevin Boon Leong Lim, FRCS(Eng.), FRCSEd(Orth), MBA
KK Women's & Children's Hospital, Singapore

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David VanEenaam; Soroush Baghdadi, MD; Divya Talwar, PhD, MPH; Alexandre Arkader, MD
The Children's Hospital of Philadelphia, Philadelphia, PA

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Mohammad Nadir Haider, MD, PhD; Jeremy Doak, MD
University at Buffalo, Buffalo, NY

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William Allen MD; Emily Wilson; Gabrielle Rauls; Thomas Geiger; Ryan McFadden;
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The Medical University of South Carolina, Charleston, SC

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Erikson Nichols, MS MMS; Olivia C. Tracey; Jessica Heyer, MD; **Emily Dodwell, MD, MPH**
Hospital for Special Surgery, New York, NY

SPINE

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Are 3D-Printed Anatomic Haptic Adolescent Idiopathic Scoliosis Spine Models Better Resident Training Tools when Compared to Conventional Training Modalities

Selina Poon, MD, MPH; Haleh Badkoobei, MD, MPH; Cynthia Nguyen, MD; **Robert H. Cho, MD, FAAOS, FAOA**; Ryan A. Finkel, MD; Reginald Fayssoux, MD
Shriners Children's Southern California, Pasadena, CA

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Ravi Rajendra, MD; Matthew Bratton; Claudia Leonardi, PhD; R. Carter Clement, III, MD, MBA
Louisiana State University, New Orleans, LA



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Coronal and Sagittal Spinal Alignment Two Years after Posterior Dynamic Distraction Device (PDDD) Instrumentation for Adolescent Idiopathic Scoliosis

Kevin Boon Leong Lim, FRCS(Eng), FRCSEd(Orth), MBA; Grace Hui Min Chew, BComms (Hons); Stacy Wei Ling Ng, MBBS, MRCS(Ed), FRCSEd (Orth); Woei Jack Pan, MB ChB BAO, FRCSEd (Orth); Nicole Kim Luan Lee, PhD
KK Women's & Children's Hospital, Singapore

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Michael C. Albert, MD; Gilbert Chan, MD; Geoffrey Haft, MD; Timothy Oswald, MD; Kevin M. Neal, MD; Noelle Larson, MD; Ryan E. Fitzgerald, MD; Alvin Jones, MD; Nigel Price, MD, FAAP, FRCSC, FAAOS; Baron Lonner, MD; Todd Milbrandt, MD; Christina K. Hardesty, MD; John T. Anderson, MD
Dayton Children's Hospital, Dayton, OH

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William ElNemer; Daniel Badin, MD; Stefan Parent, MD; Firoz Miyanji, MD; Daniel Hoernschemeyer, MD; Ahmet Alanay, MD; **John Avendano;** Harms Study Group; Paul Sponseller, MD, MBA
Johns Hopkins University, Baltimore, MD

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How Effective is the 'Scolibrace' in the Management of Adolescent Idiopathic scoliosis (AIS)

Kevin Boon Leong Lim, FRCS(Eng), FRCSEd (Orth), MBA; Heidi Ka Wing Mak; Siti Hauzah Binte Abdul Rahaman, RN; Ling Ling, Ong, RN; Jess Shi Yang Ooi, RN; Nicole Kim Luan Lee, PhD
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Vineet Desai; Margaret A. Bowen; Jason B. Anari, MD; John M. Flynn, MD; Jaysson Brooks, MD; Brian Snyder, MD; Brandon A. Ramo, MD; Jason Howard, MD; O. Hank Mayer, MD; Hiroko Matsumoto, PhD; Lawrence Karlin, MD; Robert K. Lark, MD, MS; G. Ying Li, MD; Lindsay Andras, MD; Walter Truong, MD; Ryan Fitzgerald, MD; Kenny Kwan, MD; Nan Wu, MD; Amy McIntosh, MD; Susan Nelson, MD; Pediatric Spine Study Group; Patrick J. Cahill, MD
Children's Hospital of Philadelphia, Philadelphia, PA

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Safety and Efficacy of a Novel Technique for Posterior Column Osteotomy in Patients with Adolescent Idiopathic Scoliosis Undergoing Posterior Spinal Fusion

Alec Stall, MD; Ryan Ilgenfritz, MD; **Michael Read, MD;** Naveed Nabizadeh, MD;
Tyler Anderson, MD
Nemours Children's Hospital, Orlando, FL



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Surgical Site Infection Risk in Neuromuscular Scoliosis Undergoing Long Posterior Spinal Fusion

Ryan Sefcik MD; Michael Kreft, MD; Richard Steiner, PhD; Lorena Floccari, MD; Todd Ritzman, MD, FAAOS, FAOA
Summa Health System, Akron, OH

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The Effect of Preoperative Mental Health Diagnosis on Pain Management in Patients with Adolescent Idiopathic Scoliosis Undergoing Surgery

James Bennett, MD; **Vivek M. Abraham, MD**; Hoon Chung; Nicholas Artz; Albert Andrews; Douglas Wells Jr.; Marc Cardelia, MD; Carl St. Remy, MD
Children's Hospital of The King's Daughters, Norfolk, VA

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The Link Between a Growth Mindset and Health-related Quality of Life in AIS Patients on Brace Treatment.

Joelle Liwen Wang, M.Psych.(Clinical); Nicole Kim Luan Lee, PhD; **Kevin Boon Leong Lim, FRCS(Eng), FRCSEd (Orth), MBA**
KK Women's & Children's Hospital, Singapore

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Vitamin D Deficiency in Scheuermann's Disease is Associated with Increased Adverse Outcomes

Shivan N. Chokshi, BBA; **Srikanth Mudiganty, MD**; R. Carter Clement III, MD, MBA; William Accousti, MD
Childrens Hospital - New Orleans, New Orleans, LA

SPORTS

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Comparison of KT-1000 Results in Hamstring and Quadriceps Tendon Graft Types after Adolescent ACL Reconstruction

Julianna Kennedy; Jennifer Prue, MEd, ATC; Adam Weaver, DPT; **Matthew J. Brown, MD**
Connecticut Children's Medical Center, Farmington, CT

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Postoperative Outcomes of Ischial Tuberosity Avulsion Fracture in Adolescents

Brendan A. Williams, MD; Matthew Titus; **Nathan Chaclas**; Kathleen J. Maguire, MD; J. Todd Lawrence, MD, PhD
Children's Hospital of Philadelphia, Philadelphia, PA



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Haya Qutob, DO; Adam P. Weaver, PT, DPT; Michael Brimacombe, PhD; Lisa Cruz; Nicholas Giampetruzzi, PT, MSPT; Allison E. Crepeau, MD; Michael Saper, DO, ATC, CSCS; Donna Pacicca, MD; Dylan P. Roman, PT, DPT; **Matthew Brown, MD**
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SYNDROMES, DYSPLASIAS & GENETIC CONDITIONS

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Fidrisertib (IPN60130) for the Treatment of Fibrodysplasia Ossificans Progressiva: Methodology of the Randomized, Double-Blind, Placebo-Controlled Phase II FALKON Trial

Negar Karimian, MD, PhD; Caroline Brard, PhD; **Jeanna Cooper, PharmD**; Fei Shih, MD, PhD
Ipsen Biopharmaceuticals Canada, Mississauga, ON

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Functional Independence of Children with Arthrogryposis

Lauren C. Hyer, MD; Emily R. Shull, PhD; Lisa Wagner, DHS, OTR/L; David E. Westberry, MD
Shriners Children's Greenville, Greenville, SC

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Investigation into the Development and Progression of Coxa Vara after Intramedullary Rodding in Children with Osteogenesis Imperfecta

Currey Zalman, MS3; Maegen Wallace, MD; Matthew VanOrmer, PhD
University of Nebraska Medical Center, Omaha, NE

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Radiographic Outcomes and Recurrence Rates of Pediatric Patients Treated with PRO-DENSE for Benign Bone Tumors

Maralexa Martínez-Valcárcel; Robert Schmidt Cianchini; **Karim Masrouha, MD**
NYU Langone Health, New York, NY

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Understanding the Impact of Fibrodysplasia Ossificans Progressiva on the Quality of Life of Patients and Their Family Members Using an International Burden of Illness Survey: Results From the United States and Canada

Mona Al Mukaddam, MD; Katherine S. Toder, MRA; Michelle Davis; Kim Croskery, PhD; Anne-Sophie Grandoulier, MSc; Elaine A. Böing, MPH; Nisreen Shamseddine, PharmD; Frederick S. Kaplan, MD; **Jeanna Cooper, PharmD**
University of Pennsylvania, Philadelphia, PA



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References: 1. Jelin AC, O'Hare E, Blakemore K, et al. Skeletal dysplasias: growing therapy for growing bones. *Front Pharmacol*. 2017;8(79):1-6.

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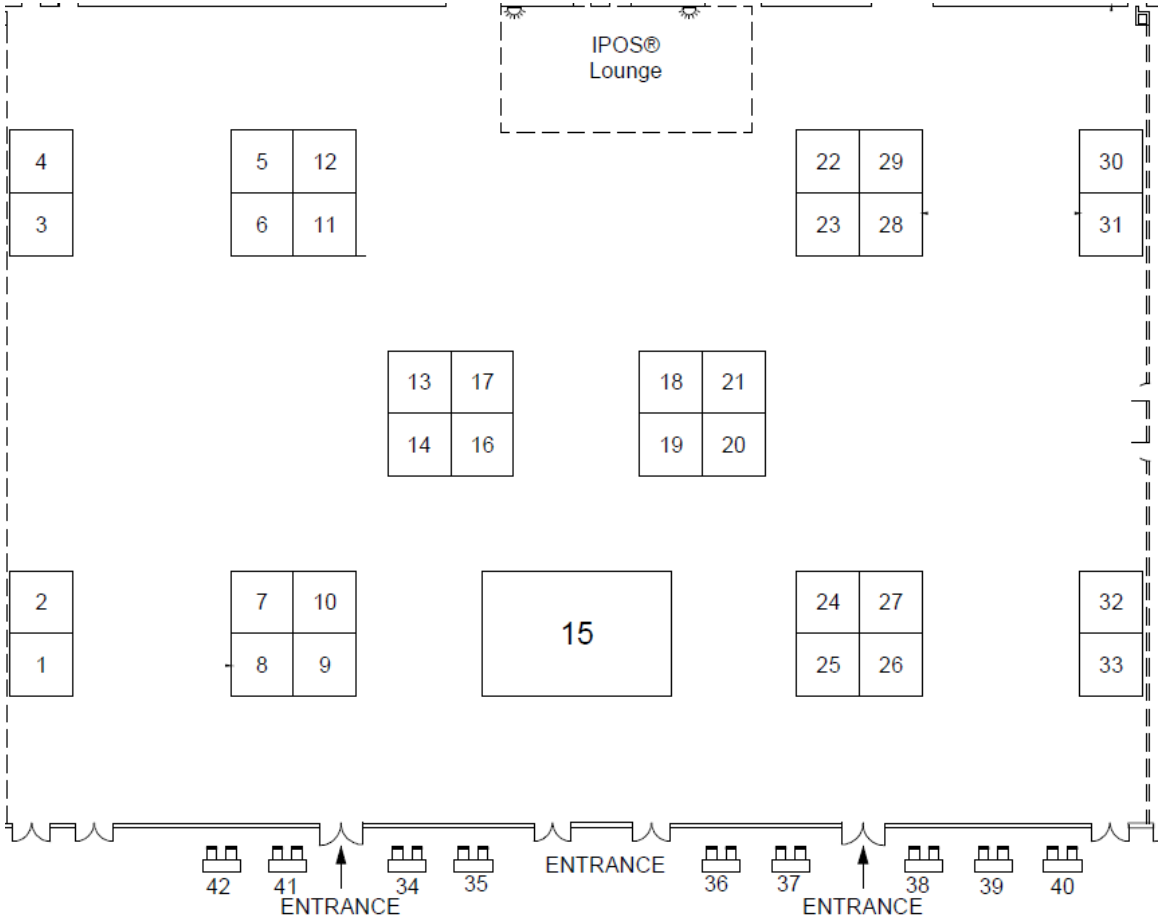


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Wednesday, December 6	7:00 AM–5:00 PM
Wednesday, December 6 Happy Hour in the Hall	2:35 PM–3:35 PM
Thursday, December 7	7:00 AM–4:00 PM
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Booth 41

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Booth 35

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Booth 13

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Booth 4

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Kyowa Kirin strives to create and deliver novel medicines with life-changing value. As a Japan-based Global Specialty Pharmaceutical Company, we apply cutting-edge science and expertise in antibody research and engineering to address the needs of patients and society across multiple therapeutic areas, including Nephrology, Oncology, Immunology/Allergy and Neurology. Across four global regions – Japan, Asia Pacific, North America and EMEA/International – we are united by our shared values of commitment to life, teamwork/Wa, innovation, and integrity, and a drive to advance innovations that have a profound impact on patients. You can learn more about Kyowa Kirin North America at: <https://kkna.kyowakirin.com>.



LIMB LENGTHENING AND RECONSTRUCTION SOCIETY (LLRS) **Booth 40**

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.



Medtronic

MEDTRONIC

Booth 24

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.

The MHE Research Foundation



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

MHE RESEARCH FOUNDATION

Booth 34

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: to 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

Booth 36

Nemours Children's Health is an international destination in orthopedic care for complex disorders including skeletal dysplasia, cerebral palsy, osteogenesis imperfecta and spine conditions such as scoliosis. It also provides a full range of comprehensive orthopedic care through other highly specialized programs including sports medicine, clubfoot, complex hip disorders, fractures, and limb lengthening and reconstruction. Nemours has developed treatment protocols

and innovations used worldwide for the care of complex pediatric orthopedic conditions and has trained among the nation's largest number of residents and fellows in pediatric orthopedic surgery. Nemours orthopedic specialists are also actively involved in life-changing research and clinical trials focused on helping children with musculoskeletal diseases experience the world more independently.



NUVASIVE

Booth 6

Globus Medical is committed to providing innovative technologies and industry-leading clinical support

to help surgeons and healthcare providers deliver better care around the globe. The Company provides one of the most comprehensive offerings of musculoskeletal solutions and enabling technologies to impact the care continuum, now including the procedurally integrated portfolio of NuVasive. The Company's employees are relentlessly focused on advancing patient care. For more information, please visit www.globusmedical.com/uniting.



nView medical

the operating room with very low levels of radiation. Improved workflow, imaging versatility, and being instrument/implant agnostic are only a few highlights. The nView platform has also added imaging versatility to many pediatric orthopedic procedures. It is a fully integrated AI-enabled imaging and navigation solution. The nView s1 + true-map is FDA cleared, has been used in more than 300 surgeries, and is commercially available.

Come check us out!

NVIEW MEDICAL

Booth 23

nView medical is a young company focused on “what’s best for patients.” nView’s imaging and guidance system, the nView s1 + true-map navigation™, is a breakthrough 3D imaging system that provides instant 3D imaging in

NYRC BRACE WITH SMART BRACE TECHNOLOGY™

improvements. The strapping mechanism with wearable technology is a system that allows the continuous monitoring of the scoliosis brace use, strap tension, and patient balance. The NYRC Brace™ strapping mechanism is set up in the custom rigid shell according to the patient scoliosis curve pattern. The wearable device is able to communicate with a companion proprietary mobile application that stores and processes the collected data and is responsible for data synchronization. All the data related to the system, including data collected by the wearable device, is stored in a cloud infrastructure, which can be accessed through a proprietary web-based application.

Our company headquarters is located in New York and has a multidisciplinary team of experts who have extensive experience dealing with patients with scoliosis.

www.nyrcbrace.com

NYRC BRACE

Booth 3

The **NYRC Brace™ with Smart Brace Technology™** is a tension-based, custom-made, three-dimensional back brace with wearable technology for scoliosis treatment. Each brace is highly customized to the patient’s anatomy and its native sagittal profile to maximize coronal and sagittal balance

ORTHOFIX®

leading surgical navigation system. Its products are distributed in approximately 68 countries worldwide. The company’s pediatric portfolio specifically addresses the most challenging pediatric orthopedic conditions worldwide including bone deformity, trauma, and limb lengthening procedures. The company is headquartered in Lewisville, Texas, and has primary offices in Carlsbad, CA, with a focus on spine and biologics product innovation and surgeon education, and Verona, Italy, with an emphasis on product innovation, production, and medical education for orthopedics. The combined company’s global R&D, commercial, and manufacturing footprint also includes facilities and offices in Irvine, CA; Toronto, Canada; Sunnyvale, CA; Wayne, PA; Olive Branch, MS; Maidenhead, UK; Munich, Germany; Paris, France; and São Paulo, Brazil. To learn more, visit Orthofix.com.

ORTHOFIX

Booth 19

The newly merged Orthofix-SeaSpine organization is a leading global orthopedics and spine company with a comprehensive portfolio of specialized orthopedic solutions, biologics, innovative spinal hardware, bone growth therapies, and a



ORTHOPEDIATRICS

Booth 15

Founded in 2006, OrthoPediatrix 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. OrthoPediatrix currently markets 50 surgical systems 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. OrthoPediatrix' 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.



OSF HEALTHCARE/CHILDREN'S HOSPITAL OF ILLINOIS

Booth 22

OSF HealthCare is an integrated health system owned and operated by The Sisters of the Third Order of St. Francis, headquartered in Peoria, Illinois. OSF HealthCare has 16 hospitals – 10 acute care, five critical

access, one transitional care - with 2,131 licensed beds throughout Illinois and Michigan. OSF employs nearly 24,000 Mission Partners across 150+ locations; has two colleges of nursing; operates OSF Home Care Services, an extensive network of home health and hospice services; owns Pointcore, Inc., comprised 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. In 2020, OSF OnCall was established, a digital health operating unit, including a hospital-at-home. OSF OnCall delivers care and services when, where, and how patients prefer to receive them. OSF HealthCare has been recognized by Fortune as one of the most innovative companies in the country. More at osfhealthcare.org.



PACIRA BIOSCIENCES, INC.

Booth 8

Pacira BioSciences, Inc. (Nasdaq: PCRX) is committed to providing non-opioid options to as many patients as possible to redefine the role of opioids as rescue therapy only. The company is also developing innovative interventions to address debilitating conditions

involving the sympathetic nervous system, such as cardiac electrical storm, chronic pain, and spasticity. Pacira has three commercial-stage non-opioid options for treating pain: EXPAREL® (bupivacaine liposome injectable suspension), a long-acting, local analgesic currently approved for postsurgical pain management; ZILRETTA® (triamcinolone acetonide extended-release injectable suspension), an extended-release, intra-articular, injection indicated for the management of osteoarthritis knee pain; and iovera®, a novel, handheld device for delivering immediate, long-acting, drug-free pain control using precise, controlled doses of cold temperature to a targeted nerve. To learn more about Pacira, including the corporate mission to reduce overreliance on opioids, visit www.pacira.com.



PEDIATRIC ORTHOPAEDIC PRACTITIONERS SOCIETY

Booth 38

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.



LIFEBRIDGE HEALTH

Rubin Institute for
Advanced Orthopedics

CARE BRAVELY

The course will introduce basic and advanced limb reconstruction concepts, including limb alignment, limb lengthening, corrective osteotomies, and internal and external fixation. The 2023 course was attended by clinicians from 37 countries and 30 U.S. states.

RUBINS INSTITUTE FOR ADVANCED ORTHOPEDICS Booth 39

The 34th Annual Baltimore Limb Deformity Course will take place August 21-25, 2024. This course is intended for orthopedic surgeons, podiatrists, and allied health professionals who treat lower extremity deformities. No prior experience required. The course features lectures, deformity planning sessions, innovative apps, case presentations from experts, and an internationally renowned faculty.

Smith+Nephew

SMITH+NEPHEW

Booth 42

Smith+Nephew is a global medical technology business with global leadership positions in Orthopaedic Reconstruction,

Sports Medicine, Trauma Fixation, Extremities & Limb Restoration, and Advanced Wound Management. Visit www.smith-nephew.com for more information.

stryker

STRYKER

Booth 9

At Stryker, we deliver the total spine experience, empowering our customers to keep the world moving. Together, we do more to challenge the standard, respond to clinical needs

and pioneer new possibilities. Our core technologies include biologic solutions, spinal implants and surgical instruments for use in spine procedures. Our enabling technologies include digital health, guidance and imaging for both cranial and spine procedures.

ultragenyx

ULTRAGENYX

Booth 31

Ultragenyx is a biopharmaceutical company committed to bringing novel products to patients for the treatment of serious rare and ultrarare genetic diseases. The company has built

a diverse portfolio of approved therapies and product candidates aimed at addressing diseases with high unmet medical need and clear biology for treatment, for which there are typically no approved therapies treating the underlying disease. For more information visit: www.ultragenyx.com or medinfo@ultragenyx.com.

Wolters Kluwer

WOLTERS KLUWER

Booth 37

Wolters Kluwer provides trusted clinical technology and evidence-based solutions that engage clinicians, patients,

researchers, and the next generation of healthcare providers. With a focus on clinical effectiveness, research and learning, safety and surveillance, and interoperability and data intelligence, our proven solutions drive effective decision-making and consistent outcomes across the continuum of care.

ZimVie

ZIMVIE SPINE

Booth 21

ZimVie Spine 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, ZimVie Spine offers minimally invasive procedural solutions and a complete suite of biologic solutions.



Expert orthopedic care that's just for kids.



When a child needs orthopedic services for an acute, chronic or congenital condition, parents and physicians choose WashU Orthopedics. Together with **St. Louis Children's Hospital**, we're proud to be national leaders in pediatric orthopedic care (*U.S. News and World Report*).

- Benign and malignant tumors, including neurofibromatosis
- Congenital hand deformities, including birth brachial plexus
- General fractures and sports injuries
- Hip care from birth through young adulthood
- Lower extremity deformities and limb length discrepancies
- Neuromuscular disorders, including cerebral palsy
- Pediatric foot deformities, including clubfoot
- Spine injuries and deformities, including spina bifida and skeletal dysplasia



ortho.wustl.edu/kids
(314) 514-3500



 Washington
University Physicians

Orthopedics



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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 which 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 the email 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.

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In support of improving patient care, this activity has been planned and implemented by Amedco LLC and the Pediatric Orthopaedic Society of North America. Amedco LLC is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC) to provide continuing education for the healthcare team.



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INTERPROFESSIONAL CONTINUING EDUCATION

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

Photography

Registration and attendance at, or participation in, POSNA activities constitutes an agreement by the registrant to allow POSNA to capture, retain, and utilize (both now and in the future) the attendees' image, likeness, voice, and actions, whether captured live or recorded and in any format, during IPOS®, for display, exhibition, publication, or reproduction in any medium or context for any purpose, including but not limited to, POSNA member communications, commercial, or promotional purposes.

No Cameras Or Video Cameras

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

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POSNA APP

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GET IT ON **Google Play**

Locate the Events tab to access the IPOS® meeting



Rare is **our** every day.

Gillette Children's is internationally recognized for treating pediatric orthopedic and spine conditions. From innovative treatments and procedures to never-been-done-before research, Gillette has the orthopedic expertise to care for the unique needs of children, teens, and adults who have highly complex bone and movement conditions.



Helping kids live a life defined
by dreams, not diagnosis.



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.



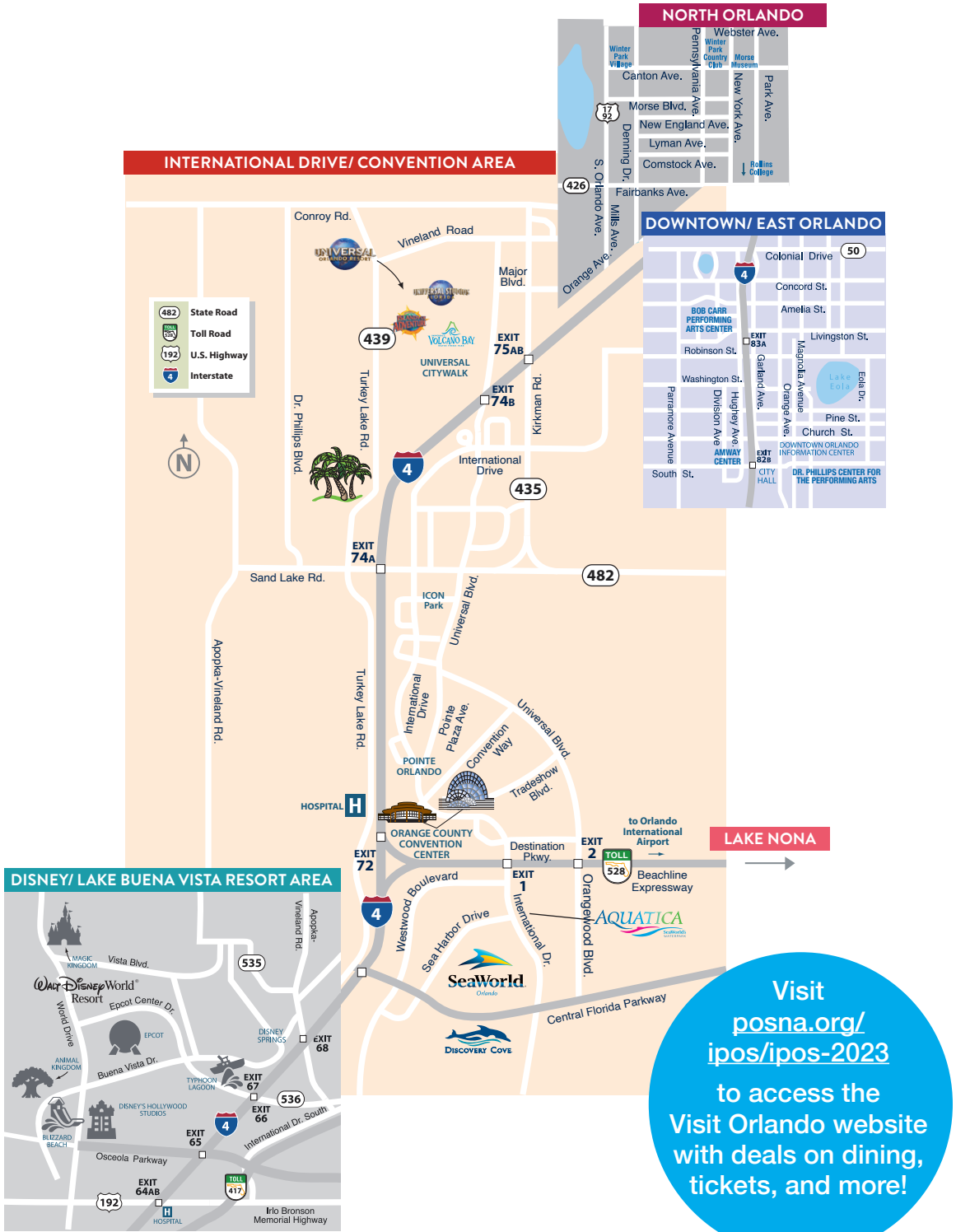
The Do's

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.



Visit posna.org/ipos/ipos-2023 to access the Visit Orlando website with deals on dining, tickets, and more!



EXPERIENCE ORLANDO'S DISTINCTIVE DINING & NIGHTLIFE

Explore Orlando's expansive dining and entertainment areas, where you can choose from dishes prepared by nationally recognized chefs and local legends, or enjoy live music, sleek lounges, and other options that are all part of our brilliant nightlife. No matter where you choose to go in Orlando, you'll find a vibrant, walkable entertainment area close by, including those featured here. For a complete list, please visit ORLANDOMEETING.COM.

CONVENTION AREA

DINING

A Land Remembered
(Rosen Shingle Creek)
Bahama Breeze Island Grille
BJ's Restaurants & Brewhouse
Cafe Tu Tu Tango*
Cala Bella (Rosen Shingle Creek)
The Capital Grille
Ciao Italia Italian Ristorante
Cooper's Hawk Winery & Restaurant
Cuba Libre Restaurant & Rum Bar
David's Club Bar & Grill (Hilton Orlando)
Del Frisco's Double Eagle Steak House
Everglades Restaurant
(Rosen Centre Hotel)
Fiorenzo (Hyatt Regency Orlando)
Fogo de Chao Brazilian Steakhouse
The Grill (Marriott's Grande Vista)
Hanamizuki Japanese Restaurant
Harry's Poolside Bar & Grill
(Rosen Centre Hotel)

Jack's Place (Rosen Plaza Hotel)
Joe's Crab Shack
Knife & Spoon (The Ritz-Carlton Orlando,
Grande Lakes)
Mia's Italian Kitchen
The Oceanaire Seafood Room Orlando
Primo by Melissa Kelly (JW Marriott
Orlando, Grande Lakes)
The Pub Orlando
Rodizio Grill
Sakura Sushi (Rosen Inn Closest to Universal)
Saltgrass Steakhouse
Shogun Japanese Restaurant
(Rosen Inn closest to Universal)
Spencer's for Steaks and Chops
(Hilton Orlando)
Tapa Toro Tapas Bar & Paella Pit
Taverna Opa
Vincenzo Cucina Italiana
Walk-On's Bistreaux
Yard House

ENTERTAINMENT

3NINE (Rosen Plaza Hotel)
Andretti Indoor Karting & Games*
Axecelsior
Dave & Buster's Inc.*
Dezerland Park*
The Hampton Social*
Howl at the Moon
ICEBAR Orlando
ICON Park*
Kings Dining & Entertainment*
Main Event Entertainment Orlando*
Mango's Tropical Cafe Orlando*
Ole Red*
Pointe Orlando*
Rocks (Hyatt Regency Orlando)
Tin Roof*
Topgolf*

DISNEY/ LAKE BUENA VISTA RESORT AREA

DINING

A Richard Blais Florida Kitchen
(Hyatt Regency Grand Cypress)
Boma – Flavors of Africa
(Animal Kingdom Lodge)
Bull & Bear (Waldorf Astoria)
California Grill (Contemporary Resort)
Capa Steakhouse & Bar
(Four Seasons Resort Orlando)
Chef Art Smith's Homecomin' Florida Kitchen
Citricos (Grand Floridian)
City Works Eatery & Pour House
Deep Blu Seafood Grill (Wyndham Grand
Orlando Resort Bonnet Creek)
The Edison*
Four Flamingos, A Richard Blais Florida
Kitchen (Hyatt Regency Grand Cypress)
Flying Fish Café
Frontera Cucina
Il Mulino New York Trattoria (Swan Resort)
Jaleo by José Andrés

Jiko – The Cooking Place
(Animal Kingdom Lodge)
La Luce (Hilton Orlando Bonnet Creek)
Lakeside Bar and Grill
Landry's Seafood House
Maya Grill (Coronado Springs)
Morimoto Asia
Narcoossee's (Grand Floridian)
'Ohana (Polynesian)
Paddlefish
Planet Hollywood
Rainforest Café
Ravello
Sanaa (Animal Kingdom Lodge)
Sear & Sea (JW Marriott Orlando Bonnet
Creek Resort & Spa)
Shula's Steak House (Dolphin Resort)
Siro Italian Kitchen (Orlando World Center
Marriott)
STK Orlando
Terralina Crafted Italian

Todd English's bluezoo (Dolphin Resort)
Toledo (Coronado Springs)
T-REX
Trattoria al Forno
The Venetian Chop House (Caribe Royale)
Victoria & Albert's
Whispering Canyon Café (Wilderness Lodge)
Wolfgang Puck Bar & Grill
Yachtsman Steakhouse (Yacht Club)
Zeta Asia (Signia by Hilton Orlando
Bonnet Creek)

ENTERTAINMENT

Cirque Du Soleil – Drawn to Life
Disney's Boardwalk*
Disney Springs*
ESPN Club*
Jock Lindsey's Hangar Bar*
Kimono's (Swan Resort)*
Rix Sports Bar & Grill (Coronado Springs)*
Splitstville Luxury Lanes*

*Location has both dining and entertainment available.



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 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 2024
are closed. Stay tuned
for more information on
membership for 2025.

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

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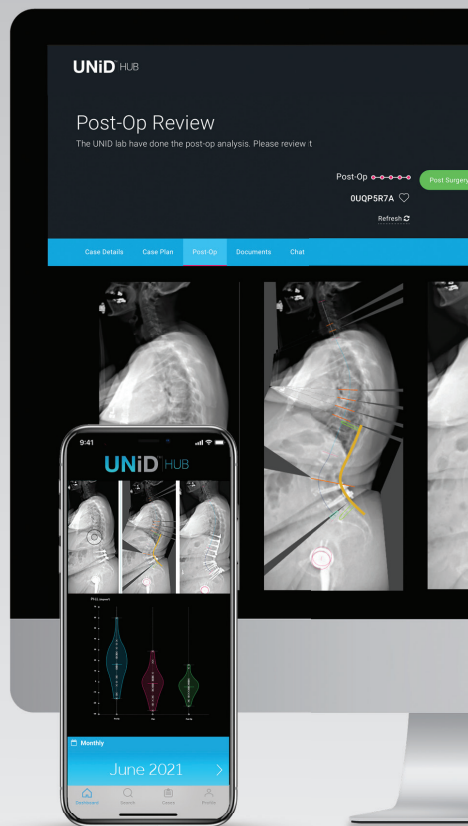
posna_ortho

Medtronic

UNiD™ Adaptive Spine Intelligence

Plan. Execute. Analyze.

UNiD™ ASI uses artificial intelligence—backed by data science—to produce implants industrially manufactured to achieve patient-specific spinal alignment goals. Powered by data aggregation and a concierge planning service, the plan, execute, analyze process creates an iterative virtuous cycle that improves with each procedure. Choose the confidence of data and the convenience of patient-specific alignment to your OR with UNiD™ ASI.

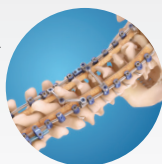


FDA cleared for use with UNiD™ patient-specific rods.

CD Horizon™
Solera™ System



Infinity™ OCT
System



CD Horizon™ Solera™
Voyager™ System



To learn more, contact your Medtronic representative.

Implantable devices are intended for spinal fusion, fixation, and/or stabilization in certain patient populations, quantities, regions of/approaches to the spine; have certain bone graft option limitations and supplemental device requirements; and are indicated to treat one or more pathologies only as listed in their labeling.

For instruments and implant-specific indications, contraindications, warnings, precautions, and other important medical information, please see the package inserts for the respective product(s). An electronic version of the package insert may be found at <https://bit.ly/3uPauYK>.

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Save the Date

Future POSNA Annual Meetings

EPOSNA (Combined POSNA and EPOS Meeting)

May 8-11, 2024

National Harbor, MD

Future IPOS® Meetings

December 3-7, 2024

Orlando, FL

December 2-6, 2025

Orlando, FL

December 1-5, 2026

Orlando, FL



POSNA
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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.

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.

