

18th Annual IPOS[®]

International Pediatric
Orthopaedic Symposium

December 6-10, 2022
Orlando, Florida

**FINAL
PROGRAM**

sponsored by:
Globus Medical



Suken Shah, MD, FAOA, FAAOS
Director



POSNA
PEDIATRIC ORTHOPAEDIC SOCIETY
OF NORTH AMERICA

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



Redefining Orthopedic Care

Nemours Children's Orthopedics goes well beyond standard medical care to help kids get back to being kids. Our comprehensive team of experts is committed to developing leading-edge research, innovation and treatments to provide life-changing, holistic care for children.



Well Beyond Medicine®

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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.

The Pediatric Orthopaedic Society of North America gratefully acknowledges the following for their generous financial support in 2022.

DOUBLE DIAMOND LEVEL

(\$150,000+)

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NuVasive

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* ZimVie

GOLD LEVEL

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*Shriners Hospitals for Children[®]

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*Provided an educational grant for IPOS[®]

**Director****Suken Shah, MD, FAOA, FAAOS****2022 IPOS® Faculty**

Lindsay Andras, MD

Alexandre Arkader, MD

Donald Bae, MD***Pablo Castañeda, MD*****Robert Cho, MD, FAAOS, FAOA***

Jon Davids, MD

Stephanie de Jager, MSN, CPNP***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

Robert Kay, MD

Derek Kelly, MD, FAAOS, FAOA*

Mininder Kocher, MD, MPH

Scott Kozin, MD

A. Noelle Larson, MD

John Lovejoy, MD, FAAOS

Scott Luhmann, MD*

William Mackenzie, MD, FRCSC, FACS

Todd Milbrandt, MD*

Vincent Mosca, MD

Peter Newton, MD

L. Reid Nichols, MD, FAOA, FAAOS* Kenneth

Noonan, MD, MHCDS

Tom Novacheck, MD

Matthew Oetgen, MD, MBA*

David Podeszwa, MD

Julie Samora, MD, PhD, MPH, FAAOS, FAOA***Wudbhav “Woody” Sankar, MD***

Jeffrey Sawyer, MD

Jonathan Schoenecker, MD, PhD*

Kevin Shea, MD

Benjamin Shore, MD, MPH, FRCSC***M. Wade Shrader, MD***

Ernie Sink, MD

David Skaggs, MD, MMM

Daniel Sucato, MD, MS*

Vishwas Talwalkar, MD, FAAOS

Bryan Tompkins, MD*

V. Salil Upasani, MD

Michael Vitale, MD, MPH*

Peter Waters, MD, MMSc

Ira Zaltz, MD

International Faculty

Antonio Andreacchio, MD

Alaric Aroojis, MS, D’Ortho, DNB

Maryse Bouchard, MD, MSc***Haemish Crawford, MD, FRACS***

Deborah Eastwood, MD

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

Sandra Jarvis-Selinger, PhD

Simon Kelley, MBChB, PhD, FRCS (Tr & Orth)

Javier Masquijo, MD

Firoz Miyanji, MD, FRCSC*

Kishore Mulpuri, MBBS, MS(Ortho), MHSc(Epi), FRCSC

Stefan Parent, MD, PhD, FRCS(C)

Christof Radler, MD

Instructors

Jennifer Bauer, MD, MS

Jennifer Beck, MD, FAAOS, FAOA, CAQ-SM

Jaysson Brooks, MD

Jeanne Franzzone, MD

Jennifer Laine, MD

Raymond Liu, MD

Phillip McClure, MD

Thomas McPartland, MD

Anthony Riccio, MD

Rachel Thompson, MD

Kali Tileston, MD, FAAOS

Michelle Welborn, MD

Medtronic

UNiD™ Adaptive Spine Intelligence

Patient-specific spine surgery through the power of AI

Plan

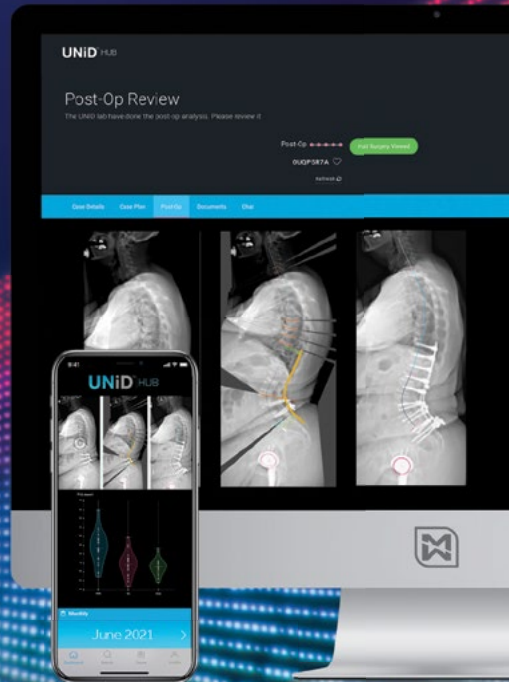
Preoperative planning powered by artificial intelligence for a more informed decision.

Execute

Intraoperative execution with patient-specific implants designed to bring your patient into alignment based on their unique anatomy.

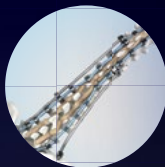
Analyze

Postoperative advanced analytics, visualization of outcome data, and data collection to give you more confidence in your surgery from pre-op to post-op.

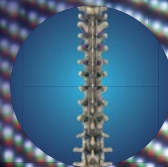


FDA cleared and CE approved for use with UNiD™ patient-specific rods:

CD Horizon™ Solera™ System
Adult and pediatric deformity surgeries



PASS LP™ System
Adult and pediatric deformity surgeries



Potential adverse events include: Disassembly, bending, or breakage of any or all of the components; Postoperative change in spinal curvature, loss of correction, height, or reduction; Infection.

The UNiD™ spine analyzer is intended for assisting healthcare professionals in viewing and measuring images as well as planning orthopedic surgeries. The device allows surgeons and service providers to perform generic, as well as spine-related measurements on images, and to plan surgical procedures. The device also includes tools for measuring anatomical components for placement of surgical implants. Clinical judgment and experience are required to properly use the software.

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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Medtronic sales
rep or use the QR
code to learn more.

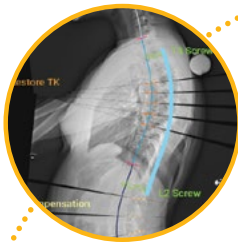
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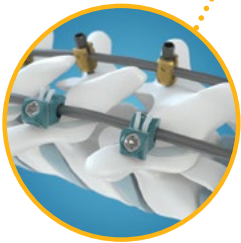
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Leading the way in pediatric patient-specific spine solutions



UNiD™ ASI leverages predictive models for pediatric deformity to provide compensatory measurements of lumbar lordosis and pelvic tilt aiding in pre-operative planning, intra-operative alignment execution, and longitudinal data collection for patients.



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



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



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

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 skills
- Evaluate strategic counsel of world-renowned thought leaders in the field
- 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

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
- Hands-on technical workshops
- Industry-sponsored sessions on cutting-edge techniques
- Small group discussions
- Essentials Session on how to teach and learn Pediatric Orthopaedic Surgery

-  Advanced Practice Providers
-  Essentials of Pediatric Orthopaedics
-  Foot
-  General Pediatric Orthopaedics/Trauma
-  Hand & Upper Extremity
-  Hip
-  Lower Extremity/Deformity
-  Neuromuscular & Cerebral Palsy
-  Spine
-  Sports
-  Syndromes, Dysplasias & Genetic Conditions

Registration

Sponsored by Orthofix

Tuesday, December 6	3:00 PM–7:00 PM
Wednesday, December 7	7:00 AM–5:00 PM
Thursday, December 8	7:00 AM–3:00 PM
Friday, December 9	7:00 AM–3:30 PM
Saturday, December 10	8:00 AM–10:00 AM

Exhibit Hall

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

Wednesday, December 7	7:00 AM–5:00 PM
Thursday, December 8	7:00 AM–4:30 PM
Friday, December 9	7:00 AM–3:30 PM



IPOS® Lounge
Network / Relax / Recharge

Located in
the Exhibit Hall

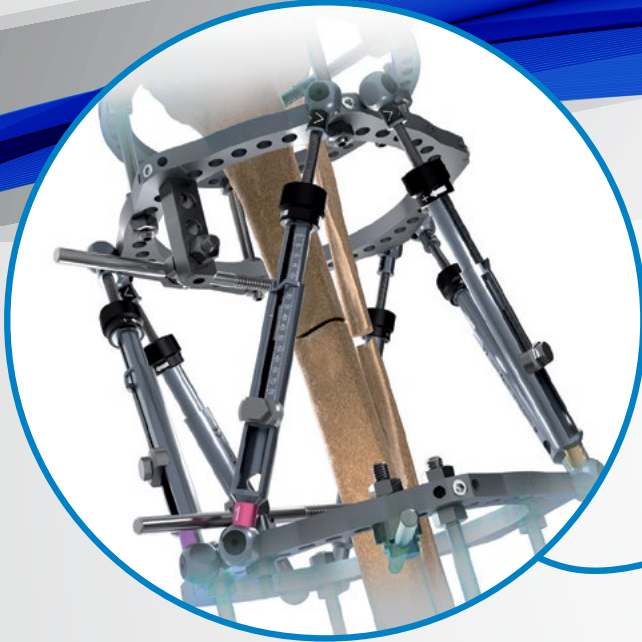
Residents and Fellows!

Special programming just for you, including:

- **Case Competition** – Hear faculty discuss cases and put your knowledge to the test!
- **Career Planning and Professional Development** – Get perspectives and advice on handling the scenarios you do not find in textbooks.
- **Lunchtime Career Development** – Join IPOS® faculty, Wednesday – Friday, for a 30-minute case review and discussion.
- **Top Gun Surgical Skills Competition** – The 10th annual contest allows you to showcase your maverick skill set (by invitation only).
- **Breakfast with Faculty** – This is a unique, one-on-one 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 PM.

Discover the Most Comprehensive Pediatric Limb Reconstruction Solution

Featuring both internal and external product innovations enabled by state-of-the-art digital planning solutions.



TL-HEX
TrueLok Hexapod System®

Stable. Simple. Versatile.

Hardware designed to simplify correction and trauma management



HEX-Ray™
Software



Intuitive and user-friendly platform empowering surgeons from the pre- to post-operative phases



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Electronic Instructions for use available at the website www.orthofix.com/vifus

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Portfolio of olutions

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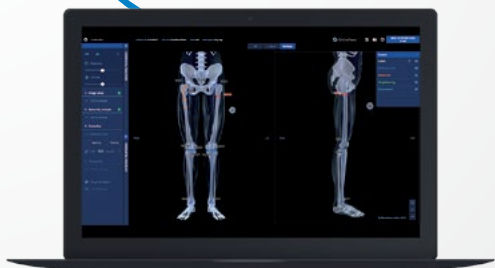


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The FIRST and ONLY lengthening nail
cleared for pediatric indications

OrthoNext™

Software














Only deformity analysis and pre-planning tool
for pediatric orthopedic procedures



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On the MOVE.
 **ORTHOFIX**[®]
ORTHOPEDICS


-  Advanced Practice Providers
-  Essentials of Pediatric Orthopaedics
-  Foot
-  General Pediatric Orthopaedics/Trauma
-  Hand & Upper Extremity
-  Hip
-  Lower Extremity/Deformity
-  Neuromuscular & Cerebral Palsy
-  Spine
-  Sports
-  Syndromes, Dysplasias & Genetic Conditions


Tuesday, December 6


Registration	3:00 PM–7:00 PM
Arabella Leet Resident and Fellow Forum <i>Sponsored by Shriners Hospitals for Children[®]</i>	Oceana Grand 6-7 4:00 PM–5:30 PM
Career Planning and Professional Development for Residents and Fellows	Oceana Grand 6-7 5:35 PM–6:35 PM
Pre-Course Network Reception	Pacifica Foyer 6:40 PM–6:50 PM
Industry Sponsored Pre-Course (Non-CME) <i>Sponsored by OrthoPediatrics</i>	Pacifica 8-10 6:55 PM–8:10 PM
Industry Sponsored Reception <i>Sponsored by OrthoPediatrics</i>	Java Sea 8:15 PM–9:15 PM


Wednesday, December 7


Registration	7:00 AM–5:00 PM
Breakfast & Exhibits	Pacifica 6-7 7:00 AM–8:00 AM
General Session 1: Mastering Call in Pediatric Orthopaedics – A Foundation in Trauma Care	 Oceana Grand 6-7 8:05 AM–10:15 AM
Break & Exhibits	Pacifica 6-7 10:20 AM–10:40 AM

CME Breakout 1: Essentials of Pediatric Orthopaedics I  **Pacifica 11-12**
10:45 AM–12:15 PM

CME Breakout: Skeletal Dysplasias: Overview to Specifics – Diagnosis and Management  **Pacifica 8-10**
10:45 AM–12:15 PM


CME Breakout: Diagnosis and Non-Operative Care of Infantile DDH  **Pacifica 1-3**
10:45 AM–12:15 PM


CME Breakout: Pinning an Elbow (Hands-on) *Sponsored by OrthoPediatrics*  **Banda Sea**
10:45 AM–12:15 PM


CME Breakout: Upper & Lower Extremity Deficiency Basics for the APP  **Coral Sea**
10:45 AM–12:15 PM

Lunch & Exhibits **Pacifica 6-7**
12:20 PM–1:20 PM

Lunchtime Career Development **Pacifica 6-7**
12:50 PM–1:20 PM

Concurrent Session 1: Management of Deformity Associated with Common Sports Injuries  **Pacifica 1-3**
1:25 PM–2:55 PM

Concurrent Session: Common Athletic Upper Limb Issues and Their Management  **Oceana Grand 6-7**
1:25 PM–2:55 PM

Pavlik With Ultrasound On The Go (Hands-on)  **South China Sea**
1:30 PM–2:15 PM

Happy Hour in the Hall **Pacifica 6-7**
3:00 PM–3:45 PM

Industry Spotlight Session 1: DePuy Synthes (Non-CME) **Coral Sea**
3:50 PM–4:50 PM

Industry Spotlight Session 1: OrthoPediatrics (Non-CME) **Java Sea**
3:50 PM–4:50 PM

Industry Spotlight Session 1: Arthrex, Inc. (Non-CME) **Timor Sea**
3:50 PM–4:50 PM

Industry Spotlight Session 1: NuVasive (Non-CME) **Pacifica 8-10**
3:50 PM–4:50 PM

Industry Spotlight Session 1: OrthoFix (Non-CME) **Pacifica 11-12**
3:50 PM–4:50 PM

Industry Spotlight Session 2: ZimVie (Non-CME) **Banda Sea**
4:55 PM–5:55 PM

Industry Spotlight Session 2: DePuy Synthes (Non-CME) **Coral Sea**
4:55 PM–5:55 PM

Industry Spotlight Session 2: OrthoPediatrics (Non-CME) **Java Sea**
4:55 PM–5:55 PM

Industry Spotlight Session 2: Arthrex, Inc. (Non-CME) **Timor Sea**
4:55 PM–5:55 PM

Industry Spotlight Session 2: Orthofix (Non-CME) **Pacifica 11-12**
4:55 PM–5:55 PM

Thursday, December 8

Registration	7:00 AM–3:00 PM
Breakfast & Exhibits	Pacifica 6-7 7:00 AM–8:00 AM
Breakfast with Faculty	Pacifica 6-7 7:00 AM–8:00 AM

General Session 2: Combination Problems in Syndromic Children – Hip and Spine, Knee, and LE Deformity



Oceana Grand 6-7
8:05 AM–10:05 AM

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

Industry Spotlight Session 3: ZimVie (Non-CME) **Banda Sea 2**
10:35 AM–11:35 AM

Industry Spotlight Session 3: DePuy Synthes (Non-CME) **Coral Sea**
10:35 AM–11:35 AM

Industry Spotlight Session 3: OrthoPediatrics (Non-CME) **Java Sea**
10:35 AM–11:35 AM

Industry Spotlight Session 3: Medtronic (Non-CME) **Pacifica 8-10**
10:35 AM–11:35 AM

Industry Spotlight Session 3: Stryker (Non-CME) **Pacifica 11-12**
10:35 AM–11:35 AM

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

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

CME Breakout 2: Essentials of Pediatric Orthopaedics II **Pacifica 11-12**
12:45 PM–2:15 PM

CME Breakout: Pediatric Cervical Spine **Coral Sea**
12:45 PM–2:15 PM

CME Breakout: Pelvic Osteotomies I – Salter, Pemberton, Dega, San Diego (Hands-on) **Timor Sea**
12:45 PM–2:15 PM

CME Breakout: Ponseti Casting (Hands-on) **Banda Sea**
12:45 PM–2:15 PM

CME Breakout: Complex Trauma – Upper & Lower Extremity Deficiency Treatment Options (Non-CME) **Java Sea**
12:45 PM–2:15 PM
Sponsored by OrthoPediatrics

CME Breakout: Sports, Bone Lesions, and Pseudotumors – Not Just for Oncologists **Pacifica 1-3**
12:45 PM–2:15 PM

Break & Exhibits **Pacifica 6-7**
2:20 PM–2:40 PM

Concurrent Session 2: Spinal Deformity Round Robin – AIS, Spondylolisthesis, and Neuromuscular Scoliosis **Pacifica 1-3**
2:45 PM–4:30 PM

Concurrent Session: Controversies in Adolescent Hip Debated **Oceana Grand 6-7**
2:45 PM–4:30 PM

Ponseti On The Go **Banda Sea**
Sponsored by MD Orthopaedics
3:00 PM–3:45 PM

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

Friday, December 9

Registration 7:00 AM–3:30 PM

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

Course for Mid-Career Surgeons **Pacifica 11-12**
7:30 AM–10:05 AM

Concurrent Session 3: Knee Injuries and Management of the Whole Athlete **Pacifica 1-3**
8:05 AM–10:05 AM

Concurrent Session: Cerebral Palsy: Non-Ambulatory Hip and Spine Pathology **Oceana Grand 6-7**
8:05 AM–10:05 AM

Ponseti On The Go **Banda Sea**
Sponsored by MD Orthopaedics
9:00 AM–9:45 PM

Pavlik With Ultrasound On The Go (Hands-on) **South China Sea**
9:00 AM–9:45 PM

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

Industry Spotlight Session 4: BioMarin (Non-CME) **Banda Sea 2**
10:35 AM–11:35 AM

Industry Spotlight Session 4: DePuy Synthes (Non-CME) **Coral Sea**
10:35 AM–11:35 AM

Industry Spotlight Session 4: OrthoPediatrics (Non-CME) **Java Sea**
10:35 AM–11:35 AM

Industry Spotlight Session 4: Pacira Biosciences (Non-CME) **Timor Sea 2**
10:35 AM–11:35 AM

Industry Spotlight Session 4: NuVasive (Non-CME) **Pacifica 8-10**
10:35 AM–11:35 AM


Lunch & Exhibits **Pacifica 6-7**
11:40 AM–12:30 PM


Lunchtime Career Development **Pacifica 6-7**
12:00 PM–12:30 PM


General Session 3: Author's Preferred Techniques **Oceana Grand 6-7**
12:35 PM–2:35 PM


Awards **Oceana Grand 6-7**
2:35 PM–2:45 PM


Break & Exhibits **Pacifica 6-7**
2:50 PM–3:10 PM


CME Breakout 3: Cases, Challenges, and Controversies in Pediatric Upper Extremity Surgery  **Pacifica 8-10**
3:15 PM–4:45 PM

CME Breakout: Tumors and Infection Update  **Pacifica 1-3**
3:15 PM–4:45 PM

CME Breakout: Pelvic Osteotomies II – Triple, PAO (Hands-on)  **Timor Sea**
3:15 PM–4:45 PM

CME Breakout: Clubfoot and Ponseti Bracing (Hands-on)  **Banda Sea**
3:15 PM–4:45 PM


CME Breakout: Amputation & Limb Deficiency – Now What? Evaluation and Management of the Pediatric Limb Deficient Patient  **Coral Sea**
3:15 PM–4:45 PM


Course for Mid-Career Surgeons  **Pacifica 11-12**
3:15 PM–4:45 PM

Saturday, December 10


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


Registration 8:00 AM–10:00 AM


Course for Mid-Career Surgeons  **Pacifica 11-12**
8:05 AM–10:05 AM

Concurrent Session 4: Controversies in Pediatric Foot and Ankle – When to Operate and When to Wait  **Pacifica 8-10**
8:05 AM–10:05 AM

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

CME Breakout 4: Managing Congenital Femoral Deficiency from Hip to Knee  **Coral Sea**
10:30 AM–12:00 PM

CME Breakout: Challenges and Controversies in Clubfoot Management – Case-Based Discussion  **Pacifica 8-10**
10:30 AM–12:00 PM

CME Breakout: Cerebral Palsy: Management of Ambulatory Gait Deviations  **Java Sea**
10:30 AM–12:00 PM

Lunch **Pacifica 6-7**
12:00 PM–1:00 PM



**NEW
IN
2022!**

PAVLIK ON THE GO

Join the faculty for a hands-on experience to learn about performing POCUS of the infant hip and tips and tricks on bracing, including the Pavlik method and other commonly used braces used to treat hip dysplasia.

Stop by on Wednesday, December 7 from 1:30 PM–2:15 PM and Friday, December 9 from 9:00 AM–9:45 AM to learn more.



Children's Health



Stanford Excellence By the Numbers

- **3** IPOS 2022 faculty: Steven Frick, MD, Kevin Shea, MD, and Kali Tileston, MD
- **70** retrospective and prospective active trials
- **45** peer-reviewed publications (and counting) in 2022
- **32** national and regional presentations
- **38,000** outpatient visits a year
- **2,000** surgeries a year
- **16** pediatric orthopedic surgeons and sports medicine specialists

Learn more at ortho.stanfordchildrens.org
or by calling **(844) 41-ORTHO**.



Tuesday, December 6, 2022

3:00 PM–7:00 PM **Registration**

4:00 PM–5:30 PM Oceana Grand 6-7

Arabella Leet Resident and Fellow Forum



This session is interactive and uses the RockLake app. Scan this QR code to download the app prior to the session.



In honor and memory of Dr. Arabella Leet's career and contributions she made to 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 Hospitals for Children[®], 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!

Panelists: Jennifer Laine, MD; Jaysson Brooks, MD; Rachel Thompson, MD; Kali Tileston, MD, FAAOS

4:00 PM–4:02 PM **Introduction**

Moderators: Julie Samora, MD, PhD, MPH, FAAOS, FAOA; Jaysson Brooks, MD

4:03 PM–4:29 PM

Panel 1

Moderator: Jennifer Laine, MD

4:03 PM–4:09 PM

Case 1: Jonathan Grabau

4:10 PM–4:16 PM

Case 2: William Fravel

4:17 PM–4:23 PM

Case 3: Katherine Krenek

4:24 PM–4:29 PM

Trivia

4:30 PM–4:56 PM

Panel 2

Moderator: Jaysson Brooks, MD

4:30 PM–4:36 PM

Case 4: Carla Bridges

4:37 PM–4:43 PM

Case 5: Patrick Thornley

4:44 PM–4:50 PM

Case 6: Miles Batty

4:51 PM–4:56 PM

Trivia

4:57 PM–5:16 PM

Panel 3

Moderator: Rachel Thompson, MD

4:57 PM–5:03 PM

Case 7: Sharbel Hitti

5:04 PM–5:10 PM

Case 8: Carlos Pargas Colina

5:11 PM–5:16 PM

Trivia

5:17 PM–5:30 PM

Panel 4

Moderator: Kali Tileston, MD, FAAOS

5:17 PM–5:23 PM

Case 9: Katharine Hollnagel

5:24 PM–5:30 PM

Case 10: Patton Robinette

5:35 PM–6:35 PM Oceana Grand 6-7

Career Planning and Professional Development for Residents and Fellows



This interactive hour-long session is designed for orthopaedic trainees to learn pearls on how to have a successful career from POSNA leaders. The faculty will discuss how to develop good habits early, including how to teach, pursue research endeavors, grow in leadership abilities, craft an inclusive environment, build synergy in teams, and address work-life balance.

5:35 PM–5:39 PM	Introduction and Welcome Moderator: Julie Samora, MD, PhD, MPH, FAAOS, FAOA
5:40 PM–5:45 PM	How Do I Grow in Leadership Skills? Jeffrey Sawyer, MD
5:46 PM–5:51 PM	How Can I Contribute to Discovery in Pediatric Orthopaedics? Jennifer Bauer, MD, MS
5:52 PM–5:57 PM	How Do I Teach in the Operating Room and Clinics? Craig Ebersson, MD, FAOA
5:58 PM–6:03 PM	How Can I Help Create an Inclusive Environment? Lindsay Andras, MD
6:04 PM–6:09 PM	How Do I Improve My Interpersonal Skills, Relationships, and Synergy in Teams? Mininder Kocher, MD, MPH
6:10 PM–6:15 PM	The Importance of Life and Family, Outside of Work Christine Ho, MD
6:16 PM–6:35 PM	Discussion Julie Samora, MD, PhD, MPH, FAAOS, FAOA Jeffrey Sawyer, MD Jennifer Bauer, MD, MS Craig Ebersson, MD, FAOA Lindsay Andras, MD Mininder Kocher, MD, MPH Christine Ho, MD
6:40 PM–6:50 PM	Pre-Course Networking Reception Pre-Function South
6:55 PM–8:10 PM	Industry Sponsored Pre-Course (Non-CME) Sponsored by OrthoPediatrics Pacifica 8-10
8:15 PM–9:15 PM	Industry Sponsored Cocktail Reception Sponsored by OrthoPediatrics Java Sea



“There are always so many pearls that I learn about pre-operative considerations, technical tips, and post-operative management and complications. I take what I learn at IPOS® and immediately apply it as soon as I return to practice.”

– Blake Montgomery, MD



The bone is only the beginning

Learn about a no-charge* genetic test for skeletal dysplasias

Most skeletal dysplasias have a genetic cause¹

- The Discover Dysplasias™ panel tests over **300 genes** and is available at no charge for eligible patients in the United States and Canada suspected of having a skeletal dysplasia

Genetic testing may help **facilitate a diagnosis** sooner, and in some cases, may help put patients on the path to disease-specific management sooner

Visit us at booth #1 to learn more

*This is a sponsored testing program. While third parties and commercial organizations may provide financial support for this program, tests and services are performed by Invitae. Healthcare professionals must confirm that patients meet certain criteria to use the program. Third parties and commercial organizations may receive de-identified patient data from this program, but at no time would they receive patient-identifiable information. Third parties and commercial organizations may receive contact information for healthcare professionals who use this program. Genetic testing and counseling is available in the US and Canada. Healthcare professionals and patients who participate in this program have no obligation to recommend, purchase, order, prescribe, promote, administer, use, or support any other products or services from Invitae or from third parties or commercial organizations.

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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INVITAE

Wednesday, December 7, 2022

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–10:15 AM **Oceana Grand 6-7**



Mastering Call In Pediatric Orthopaedics: A Foundation in Trauma Care



This session is interactive and uses the RockLake app. Scan this QR code to download the app prior to the session.

This session is a dynamic learning session with gamification and performance feedback. Chunking key concepts of pediatric trauma based on the four principal questions of how periosteum is torn, what could be injured because of it being torn, how to use what is intact, and how to replace what is torn.

7:45 AM–8:00 AM **Mobile App Onboarding**

8:00 AM–8:04 AM **Introduction and Welcome**
Director: Suken Shah, MD, FAOA, FAAOS

8:05 AM–8:07 AM **Welcome to Trauma: The Common Denominator of Pediatric Orthopaedics**
Moderator: Nicholas Fletcher, MD

8:08 AM–8:31 AM **Session 1A: Basics/Wrist Forearm**

8:08 AM–8:14 AM **Boot Camp – The Basics of Bone**
Jonathan Schoenecker, MD, PhD

8:15 AM–8:21 AM **Just Another FOOSH? Wrist and Forearm Fractures**
Thomas McPartland, MD

8:22 AM–8:27 AM **Quiz and Results on Peds Ortho Trauma Basics and Wrist**
Moderators: Nicholas Fletcher, MD; Jonathan Schoenecker, MD, PhD

8:28 AM–8:31 AM **Score Recap**
Moderators: Nicholas Fletcher, MD; Jonathan Schoenecker, MD, PhD

8:32 AM–9:09 AM **Session 1B: Elbow**

8:32 AM–8:38 AM **Elbow 1: The Pancreas of Peds Ortho – The Lateral Elbow: Monteggia, Radial Head/Neck, Lateral Condyle**
Nicholas Fletcher, MD

8:39 AM–8:40 AM **Score Recap**
Moderators: Nicholas Fletcher, MD; Jonathan Schoenecker, MD, PhD

8:41 AM–8:46 AM **Elbow 2: Common(Iy Hard) – The Type 3 and Flexion Type Supracondylar Humerus Fractures**
Alexandre Arkader, MD

8:47 AM–8:51 AM **Quiz and Results on Lateral Elbow/SCH Fractures**
Moderators: Nicholas Fletcher, MD; Jonathan Schoenecker, MD, PhD

8:52 AM–8:58 AM	Elbow 3: The Rare and Controversial: Medial Elbow – Medial Epicondyle, Medial Condyle, and Dislocation Eric Edmonds, MD
8:59 AM–9:03 AM	Quiz and Score Recap Moderators: Nicholas Fletcher, MD; Jonathan Schoenecker, MD, PhD
9:04 AM–9:09 AM	Discussion and Results Moderators: Nicholas Fletcher, MD; Jonathan Schoenecker, MD, PhD
9:10 AM–10:15 AM	Session 1C: Lower Extremity
9:10 AM–9:16 AM	History and Biology of Fracture Fixation of Long Bones Jonathan Schoenecker, MD, PhD
9:17 AM–9:23 AM	Tibia and Proximal Tibia Jennifer Laine, MD
9:24 AM–9:25 AM	Score Recap Moderators: Nicholas Fletcher, MD; Jonathan Schoenecker, MD, PhD
9:26 AM–9:32 AM	Femur and Distal Femur Lindsay Andras, MD
9:33 AM–9:36 AM	Quiz and Results on Tibia and Femur Moderators: Nicholas Fletcher, MD; Jonathan Schoenecker, MD, PhD
9:37 AM–9:43 AM	Hip Nicholas Fletcher, MD
9:44 AM–9:47 AM	Quiz and Results on Lower Extremity, More Focus on Hip Moderators: Nicholas Fletcher, MD; Jonathan Schoenecker, MD, PhD
9:48 AM–9:50 AM	Discussion and Results Moderators: Nicholas Fletcher, MD; Jonathan Schoenecker, MD, PhD
9:51 AM–9:56 AM	Final Quiz Moderators: Nicholas Fletcher, MD; Jonathan Schoenecker, MD, PhD
9:57 AM–10:15 AM	Discussion and Final Results Moderators: Nicholas Fletcher, MD; Jonathan Schoenecker, MD, PhD
10:20 AM–10:40 AM	Break and Exhibits Pacifica 6-7

WiFi Information

IPOS® Conference WiFi: IPOS2022
Password: orlando2022



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Campbell Clinic pediatric orthopaedic team




Back row from left to right:


William C. Warner, Jr., M.D. | **Derek M. Kelly, M.D.**
James H. Beaty, M.D. (President of POSNA 2000-2001)
Jeffrey R. Sawyer, M.D. (Current President of POSNA)

Seated from left to right:

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

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CME Breakout 1

10:45 AM–12:15 PM **Pacifica 11-12****Essentials of Pediatric Orthopaedics I**

This session will discuss the basics of pediatric orthopaedics with a focus on recognition of common conditions, understanding the essential evaluation of these conditions, and development of an appropriate treatment plan. This session will be geared towards residents and fellows who would like to develop a strong fundamental base of knowledge and understand a methodology for synthesizing clinical data to develop an appropriate treatment plan for these conditions. Additionally, APPs who run their own clinics will find this session helpful to understand and treat common pediatric conditions.

Moderator: Matthew Oetgen, MD, MBA

10:45 AM–10:52 AM	Growth and Development: How This Affects Decision Making Ron El-Hawary, MD, MSc, FRCS(C)
10:53 AM–11:00 AM	Lower Extremity Alignment and Growth Phillip McClure, MD
11:01 AM–11:08 AM	Upper Extremity Growth Disturbances Peter Waters, MD, MMSc
11:09 AM–11:14 AM	Discussion Moderator: Matthew Oetgen, MD, MBA Panel: Ron El-Hawary, MD, MSc, FRCS(C); Phillip McClure, MD; Peter Waters, MD, MMSc
11:15 AM–11:20 AM	Approaching the Patient with Cerebral Palsy Tom Novacheck, MD
11:21 AM–11:26 AM	Approaching the Patient with Spina Bifida Kenneth Noonan, MD, MHCDS
11:27 AM–11:32 AM	Approaching the Patient with Spinal Muscular Atrophy Michelle Welborn, MD
11:33 AM–11:38 AM	Approaching the Patient with Short Stature Raymond Liu, MD
11:39 AM–11:45 AM	Discussion Moderator: Matthew Oetgen, MD, MBA Panel: Tom Novacheck, MD; Kenneth Noonan, MD, MHCDS; Michelle Welborn, MD; Raymond Liu, MD
11:46 AM–11:52 AM	The Limping Child Derek Kelly, MD, FAAOS, FAOA
11:53 AM–11:59 AM	Acute Infection – Septic Arthritis and Osteomyelitis Bryan Tompkins, MD
12:00 PM–12:08 PM	Office-Based Assessment of Gait Jon Davids, MD
12:09 PM–12:15 PM	Discussion Moderator: Matthew Oetgen, MD, MBA Panel: Derek Kelly, MD, FAAOS, FAOA; Bryan Tompkins, MD; Jon Davids, MD



CME Breakout 1

10:45 AM–12:15 PM Pacifica 8-10

Skeletal Dysplasias: Overview to Specifics – Diagnosis and Management

This breakout session will cover the latest management concepts for skeletal dysplasia and osteogenesis imperfecta patients. Principles, practical information, and pearls from the experts will be illustrated with case examples.

Moderator: Haemish Crawford, MD, FRACS

10:45 AM–10:50 AM	Introduction Haemish Crawford, MD, FRACS
10:51 AM–10:57 AM	Clinical Diagnosis of a Skeletal Dysplasia Haemish Crawford, MD, FRACS
10:58 AM–11:04 AM	Update on Genetics/Pathophysiology Skeletal Dysplasia Jeanne Franzone, MD
11:05 AM–11:11 AM	Medical Management of Skeletal Dysplasias Todd Milbrandt, MD
11:12 AM–11:18 AM	Anesthetic Considerations in Skeletal Dysplasia Patients William Mackenzie, MD, FRCSC, FACS
11:19 AM–11:24 AM	Discussion Haemish Crawford, MD, FRACS Jeanne Franzone, MD Todd Milbrandt, MD William Mackenzie, MD, FRCSC, FACS
11:25 AM–11:31 AM	Overview of Achondroplasia Haemish Crawford, MD, FRACS
11:32 AM–11:38 AM	The Spine in Achondroplasia William Mackenzie, MD, FRCSC, FACS
11:39 AM–11:45 AM	Limb Deformity in Achondroplasia Philip McClure, MD
11:46 AM–11:52 AM	What's New in Osteogenesis Imperfecta Jeanne Franzone, MD
11:53 AM–12:15 PM	Discussion and Case Presentations Haemish Crawford, MD, FRACS



“IPOS® brings in different techniques and getting pointers from the people who develop them. You are constantly learning, not just by listening, but you have that hands-on one-on-one experience.”

– Monica Payares-Lizano, MD

CME Breakout 1



10:45 AM–12:15 PM **Pacifica 1-3**

Diagnosis and Non-Operative Care of Infantile DDH

This session will highlight the state of the art in diagnosing and treating infantile hip dysplasia, highlighting common problems and creative solutions that are applicable in every day practice.

Moderator: Pablo Castañeda, MD

- 10:45 AM–10:50 AM **Why is DDH a Problem?**
Wudbhav “Woody” Sankar, MD
- 10:51 AM–10:56 AM **Early Diagnosis of DDH: Physical Exam**
Alaric Aroojis, MS, D’Ortho, DNB
- 10:57 AM–11:02 AM **Early Diagnosis of DDH: Radiographs and US (including POCUS)**
Pablo Castañeda, MD
- 11:03 AM–11:08 AM **2022: Who Should Be Screened?**
Ernie Sink, MD
- 11:09 AM–11:14 AM **Physiologic Immaturity vs. Real DDH: When Should I Treat?**
Deborah Eastwood, MD
- 11:15 AM–11:20 AM **Principles of Bracing Treatment**
Ira Zaltz, MD
- 11:21 AM–11:26 AM **What to Do if the Pavlik Isn’t Working?**
Simon Kelley, MBChB, PhD, FRCS (Tr & Orth)
- 11:27 AM–11:32 AM **Femoral Nerve Palsy**
Daniel Sucato, MD, MS
- 11:33 AM–11:38 AM **Follow-up Protocols Following Successful Treatment**
V. Salil Upasani, MD
- 11:39 AM–11:44 AM **Diagnostic Advances in Infantile DDH (3D US, AI, etc.)**
Kishore Mulpuri, MD, MBBS, MS(Ortho), MHSc(Epi), FRCSC
- 11:45 AM–12:15 PM **Non-Operative DDH Cases**
Wudbhav “Woody” Sankar, MD

CME Breakout 1



10:45 AM–12:15 PM **Banda Sea**

Pinning an Elbow (Hands-on) *Sponsored by a grant provided by OrthoPediatrics*

Practical didactics on pinning elbow fracture and an interactive hands-on experience on pinning the acute pediatric elbow fracture. (Operative only)

Moderator: Donald Bae, MD

10:45 AM–11:02 AM **Supracondylar Humerus Fracture Didactics**

10:45 AM–10:50 AM **Fracture Patterns and Stability**
Jonathan Schoenecker, MD, PhD

10:51 AM–10:56 AM	Biomechanics of Pinning David Skaggs, MD, MMM
10:57 AM–11:02 AM	Pitfalls and Traps Julie Samora, MD, PhD, MPH, FAAOS, FAOA
11:03 AM–11:48 AM	Hands-on Instruction Donald Bae, MD Antonio Andreacchio, MD Jonathan Schoenecker, MD, PhD Benjamin Shore, MD, MPH, FRCSC Julie Samora, MD, PhD, MPH, FAAOS, FAOA Michael Glotzbecker, MD Bryan Tompkins, MD Thomas McPartland, MD Craig Ebersson, MD, FAOA Anthony Riccio, MD David Skaggs, MD, MMM Jennifer Bauer, MD, MS Kali Tileston, MD, FAAOS Vishwas Talwalkar, MD, FAAOS
11:49 AM–12:15 PM	Debrief Donald Bae, MD Julie Samora, MD, PhD, MPH, FAAOS, FAOA Jonathan Schoenecker, MD, PhD Benjamin Shore, MD, MPH, FRCSC Thomas McPartland, MD

CME Breakout 1

10:45 AM–12:15 PM **Coral Sea**



Upper & Lower Extremity Deficiency Basics for the APP

The participant will understand common orthopaedic diagnoses that can create limb inequality in children including trauma, infection, and congenital anomalies of the upper and lower extremities.

Moderator: Stephanie de Jager, MSN, CPNP

10:45 AM–10:52 AM	Trauma: An Introduction to the Toys That Break Us Ray Kleposki, MSN, CPNP
10:53 AM–11:00 AM	Trauma: Sports Injuries – The Good, The Bad, and The Ugly Ben Johnson, PA-C
11:01 AM–11:08 AM	Trauma: When Things Pop Out – Dislocations and Open Fractures Erica Zepeda, MSN, APRN, CPNP
11:09 AM–11:16 AM	Discussion Stephanie de Jager, MSN, CPNP Ray Kleposki, MSN, CPNP Ben Johnson, PA-C Erica Zepeda, MSN, APRN, CPNP
11:17 AM–11:24 AM	Malignant Tumors and the Effects on Extremities Alexandre Arkader, MD

11:25 AM–11:32 AM	Dysplasias: The Ever Changing Bone Erin Dawicki, PA-C
11:33 AM–11:40 AM	Demystifying Infection: MSK Infections From the NICU to the PICU Tracy Warhooover, MSN, RN, CPNP
11:41 AM–11:48 AM	Discussion Ray Kleposki, MSN, CPNP Erin Dawicki, PA-C Tracy Warhooover, MSN, RN, CPNP
11:49 AM–11:56 AM	Common Congenital UE Deficiencies and the Role of the APP Diana Halback, MSN, CPNP, RNFA
11:57 AM–12:04 PM	Lower Extremity Congenital Issues Encountered by the APP Sheila Mason, PNP
12:05 PM–12:15 PM	Discussion Diana Halback, MSN, CPNP, RNFA Sheila Mason, PNP
12:20 PM–1:20 PM	Lunch and Exhibits Pacifica 6-7
12:50 PM–1:20 PM	Lunchtime Career Development Pacifica 6-7

Concurrent Session 1

1:25 PM–2:55 PM Pacifica 1-3



Management of Deformity Associated with Common Sports Injuries

Learn the role of lower extremity alignment problems in sports participation and sports injury and approaches to correct alignment differences in athletes.

Moderator: Raymond Liu, MD
eModerator: Christof Radler, MD

1:25 PM–1:27 PM	Welcome and Introduction L. Reid Nichols, MD, FAOA, FAAOS
1:28 PM–1:35 PM	Hip Pain in the Dancer – What Is the Diagnosis? Daniel Sucato, MD, MS
1:36 PM–1:43 PM	Hip Pain in the Dancer – Scope That Hip! Mininder Kocher, MD, MPH
1:44 PM–1:51 PM	Hip Pain in the Dancer – PAO of Course! Ernie Sink, MD
1:52 PM–1:59 PM	Hip Pain in the Dancer – You Slipped David Podezwa, MD
2:00 PM–2:05 PM	Discussion Daniel Sucato, MD, MS Mininder Kocher, MD, MPH Ernie Sink, MD David Podezwa, MD
2:06 PM–2:13 PM	ACL Injury: What's a Little Valgus? Henry Ellis, MD



*As a Paediatric
Orthopaedist, you
play a **BIG** role*

HELP DRIVE EARLY DIAGNOSIS FOR PATIENTS WITH DEVASTATING NEUROMUSCULAR DISORDERS LIKE DUCHENNE MUSCULAR DYSTROPHY (DMD)

DMD, one of the most common and severe forms of muscular dystrophy in children, is characterised by progressive decline in muscle function, leading to loss of ambulation, respiratory and cardiac failure, and subsequent early death.¹⁻³

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Early recognition of DMD is vital to delay progression and treat potentially life-threatening complications.^{1,2,5,6}

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DIAGNOSIS OF DMD TO DELAY DISEASE
PROGRESSION WITH A TIMELY REFERRAL
TO A PAEDIATRIC NEUROLOGIST**

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References: 1. Birnkrant DJ et al. *Lancet Neurol.* 2018;17(3):251-267. 2. van Ruiten HJ et al. *Arch Dis Child.* 2014;99(12):1074-1077. 3. What are the types and symptoms of muscular dystrophy (MD)? National Institute of Child Health and Human Development. Reviewed 9 November 2020. Accessed 15 September 2021. <https://www.nichd.nih.gov/health/topics/musculardys/conditioninfo/types> 4. Blake DJ et al. *Physiol Rev.* 2002;82(2):291-329. 5. Laing NG et al. *Clin Biochem Rev.* 2011;32(3):129-134. 6. Lurio JG et al. *Am Fam Physician.* 2015;91(1):38-44.

2:14 PM–2:21 PM	Patellar Stabilization – What’s a Little Varus? L. Reid Nichols, MD, FAOA, FAAOS
2:22 PM–2:29 PM	Taking the Miserable Out of Miserable Malalignment Philip McClure, MD
2:30 PM–2:35 PM	Discussion Henry Ellis, MD L. Reid Nichols, MD, FAOA, FAAOS Philip McClure, MD
2:36 PM–2:43 PM	Another Ankle Sprain? Maryse Bouchard, MD, MSc
2:44 PM–2:51 PM	Cavus Feet in the Athlete: When to Intervene? Vincent Mosca, MD
2:52 PM–2:55 PM	Discussion Maryse Bouchard, MD, MSc Vincent Mosca, MD

Concurrent Session 1

1:25 PM–2:55 PM **Oceana Grand 6-7**



Common Athletic Upper Limb Issues and Their Management

Join our esteemed IPOS[®] faculty for this case-based and multi-disciplinary session on common upper extremity sports conditions. We will share technical pearls as well as approaches to complex problems up and down the upper limb. If you care for pediatric athletes, you won't want to miss this!

Moderator: Eric Edmonds, MD
eModerator: Donald Bae, MD

1:25 PM–1:55 PM **Shoulder Instability**

1:25 PM–1:26 PM	Introduction Eric Edmonds, MD
1:27 PM–1:28 PM	Case Presentation: American Football Player With Shoulder Dislocation Donald Bae, MD
1:29 PM–1:37 PM	Discussion Jennifer Beck, MD, FAAOS, FAOA, CAQ-SM Theodore Ganley, MD Kevin Shea, MD
1:38 PM–1:42 PM	Master Technical Pearls: Arthroscopic Labral Repair Jennifer Beck, MD, FAAOS, FAOA, CAQ-SM
1:43 PM–1:47 PM	Capsulorrhaphy for MDI in the Ligamentously LAX Theodore Ganley, MD
1:48 PM–1:52 PM	What About the Bone? Assessment and Treatment of Bony Bankart or Engaging Hill Sachs Lesions Donald Bae, MD
1:53 PM–1:55 PM	Wrap Up and Questions Moderator: Donald Bae, MD

1:56 PM–2:25 PM

Medial Epicondyle & UCL

1:56 PM–1:57 PM

Case Presentation: Baseball Pitcher With Acute on Chronic Avulsion Injury

Eric Edmonds, MD

1:58 PM–2:06 PM

Discussion

Jeffrey Sawyer, MD
Mininder Kocher, MD, MPH
Kevin Shea, MD

2:07 PM–2:11 PM

Master Technical Pearls: ORIF of Medial Epicondyle Fracture

Jeffrey Sawyer, MD

2:12 PM–2:16 PM

How to Treat the Symptomatic Nonunion?

Mininder Kocher, MD, MPH

2:17 PM–2:21 PM

Ligamentous Avulsion in the Skeletally Immature: PT, Repair, or Internal Brace?

Kevin Shea, MD

2:22 PM–2:25 PM

Wrap Up and Questions

Moderator: Eric Edmonds, MD

2:26 PM–2:55 PM

Gymnast Wrist

2:26 PM–2:27 PM

Case Presentation: Young Gymnast with Wrist Pain

Donald Bae, MD

2:28 PM–2:36 PM

Discussion

Jonathan Schoenecker, MD, PhD
Julie Samora, MD, PhD, MPH, FAAOS, FAOA
Peter Waters, MD, MMSc

2:37 PM–2:41 PM

What Is It? Physical Stress Injury, Radiographic Correlates, Natural History

Jonathan Schoenecker, MD, PhD

2:42 PM–2:46 PM

Epiphyseodesis and Physiolysis: Indications & Techniques

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

2:47 PM–2:51 PM

Master Technical Pearls: Ulnar Shortening Osteotomy and TFCC Repair

Peter Waters, MD, MMSc

2:52 PM–2:55 PM

Wrap Up and Questions

Moderator: Donald Bae, MD

1:30 PM–2:15 PM South China Sea

Pavlik With Ultrasound On The Go (Hands-on)



Join the faculty for a hands-on experience to learn about performing POCUS of the infant hip and tips and tricks on bracing including the Pavlik method and other commonly used braces used to treat hip dysplasia.

Faculty: Wudbhav “Woody” Sankar, MD; Alaric Aroojis, MS, D’Ortho, DNB; Pablo Castañeda, MD; Kishore Mulpuri, MD, MBBS, MS(Ortho), MHSc(Epi), FRCSC; Valerie Parrish, PA-C

3:00 PM–3:45 PM

Happy Hour in the Hall Pacifica 6-7

WEDNESDAY, DECEMBER 7
3:50 PM–4:50 PM

Arthrex, Inc. – Timor Sea

Surgical Interventions for Common Knee Pathology Workshop

A didactic and hands-on session detailing common knee injuries and accompanying interventions.

Kevin Shea, MD (Moderator); Eric Edmonds, MD; Theodore Ganley, MD

DePuy Synthes – Coral Sea

Neuromuscular Scoliosis: Principles of Management and Complication Prevention

Review pathology and techniques in the management of pediatric neuromuscular spinal disorders.

Suken Shah, MD, FAOA, FAAOS; Jeffrey Sawyer, MD; Jennifer Bauer, MD, MS

NuVasive – Pacifica 8-10

Tips and Tricks on Managing Big Curves in Little Kids

Please join our esteemed faculty for a hands-on workshop around how to treat large curves across the full spectrum of pediatric deformity care. From growing rods and halo gravity traction to AIS best practices, our faculty will take you through a case-based discussion around their decision-making, tips, and insights to ensure the most optimal outcome for each patient.

Michael Glotzbecker, MD; Robert Cho, MD, FAAOS, FAOA; Lindsay Andras, MD; Michelle Welborn, MD

Orthofix – Pacifica 11-12

Computer-Assisted Pre-Operative Planning: A Hands-On Tutorial

Learn the importance of pre-operative planning and receive a step-by-step tutorial from experienced surgeon faculty on how to use an innovative pre-planning software platform that allows for not only performing deformity analysis and osteotomy correction but also selection of appropriate hardware through product-specific modules. This highly interactive hands-on session will allow participants a unique opportunity to pre-plan cases themselves using the software on the computer as well as receive key tips and tricks from the surgeon faculty.

David Frumberg, MD; David Podeszwa, MD

OrthoPediatics – Java Sea

Implants in the Pediatric Foot: What to Use When

There are many implant options for treating pediatric foot deformities. This interactive case-based session will focus on the treatment options available from wires to plate and screws to external fixation. See what our faculty would use and how it compares to your approach.

Maryse Boucharde, MD, MSc; Anthony Riccio, MD; Jennifer Laine, MD

WEDNESDAY, DECEMBER 7
4:55 PM–5:55 PM

Arthrex, Inc. – Timor Sea

Managing ACL Ruptures

A didactic and hands-on session detailing ACL injury and accompanying intervention.

Kevin Shea, MD (Moderator); Eric Edmonds, MD; Theodore Ganley, MD

DePuy Synthes – Coral Sea

Treatment of AIS: Beyond the Basics

Discussing the management of Pediatric Spinal Deformity highlighting Sagittal Plane Restoration in AIS.

Firoz Miyanji, MD, FRCSC; A. Noelle Larson, MD; Craig Louer, MD

Orthofix – Pacifica 11-12

Internal versus External Fixation Solutions for Complex Limb Reconstructions: What to Use and When

Join us in this interactive didactic session where the esteemed faculty will spar off in a debate-style format to discuss when and how they choose between different internal and external fixation options, including a motorized lengthening nail and hexapod ring fixation system, for complex limb reconstruction and deformity correction procedures.

David Frumberg, MD; Emory Chang, MD

OrthoPediatics – Java Sea

External Fixation in the Younger Patient

This session will focus on the role of external fixation as a treatment choice in the younger patient, with considerations and best practices learned over the years. The faculty will cover a variety of topics from monolateral rails, Ilizarov-style fixators, and circular hexapods and how to account for smaller anatomy.

Claire Shannon, MD; Jaclyn Hill, MD

ZimVie – Banda Sea 2

VBT: Getting Started and Supporting the Patient through the Approval Process

VBT is a relatively new procedure (FDA HDE approval in Aug. 2019) that may provide patients and surgeons obstacles in the surgery approval process (insurer). This spotlight session will highlight available resources and clinical documentation that enable surgeons to support their patients when met with obstacles. VBT indications/contraindications will be highlighted.

Lawrence Haber, MD

Dr. Jennifer Bauer
Chief, Spine Surgery

Ana Maria Galvez Kolenko
PA-C



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3:50 PM–4:50 PM **Industry Spotlight Sessions (Non-CME)** See page 28 for details

4:55 PM–5:55 PM **Industry Spotlight Sessions (Non-CME)** See page 28 for details

Thursday, December 8, 2022

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 Pacifica 6-7**

General Session 2

8:05 AM–10:05 AM **Oceana Grand 6-7**

Combination Problems in Syndromic Children: Hip and Spine, Knee, and LE Deformity



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.

eModerator: Suken Shah, MD, FAOA, FAAOS

8:05 AM–8:07 AM **Welcome Remarks**
Director: Suken Shah, MD, FAOA, FAAOS

8:08 AM–8:46 AM **Down Syndrome**

8:08 AM–8:12 AM **Down Syndrome Case Presentation**
Moderator: Todd Milbrandt, MD

8:13 AM–8:17 AM **Atlantoaxial Instability, Stenosis, and Os Odontoidum**
Jennifer Bauer, MD, MS

8:18 AM–8:22 AM **Scoliosis and Spondylolisthesis**
Michael Vitale, MD, MPH

8:23 AM–8:27 AM **Hip Dysplasia**
Kishore Mulpuri, MD, MBBS, MS(Ortho), MHSc(Epi), FRCSC

8:28 AM–8:32 AM **Patellar Instability**
Vishwas Talwalkar, MD, FAAOS

8:33 AM–8:37 AM **Pes Planus**
Vincent Mosca, MD

8:38 AM–8:46 AM **Discussion**
Todd Milbrandt, MD
Jennifer Bauer, MD, MS
Michael Vitale, MD, MPH
Kishore Mulpuri, MD, MBBS, MS(Ortho), MHSc(Epi), FRCSC
Vishwas Talwalkar, MD, FAAOS
Vincent Mosca, MD

8:47 AM–9:24 AM

Multiple Hereditary Exostoses (MHE)

8:47 AM–8:51 AM

Multiple Hereditary Exostoses (MHE) Case Presentation

Moderator: Daniel Sucato, MD, MS

8:52 AM–8:56 AM

Spinal Involvement

Lindsay Andras, MD

8:57 AM–9:01 AM

Radial Head Instability in Patients with MHE of the Forearm

Donald Bae, MD

9:02 AM–9:06 AM

Hip Impingement

Pablo Castañeda, MD

9:07 AM–9:11 AM

Genu Valgum Management with Complications

David Podeszwa, MD

9:12 AM–9:16 AM

Benign to Malignant Transformation – Surveillance and Action

Alexandre Arkader, MD

9:17 AM–9:24 AM

Discussion

Daniel Sucato, MD, MS

Lindsay Andras, MD

Donald Bae, MD

Pablo Castañeda, MD

David Podeszwa, MD

Alexandre Arkader, MD

9:25 AM–10:05 AM

Skeletal Dysplasia (MPS IV)

9:25 AM–9:29 AM

Skeletal Dysplasia (MPS IV) Case Presentation

Moderator: Haemish Crawford, MD, FRACS

9:30 AM–9:34 AM

Cervical Stenosis/Instability

William Mackenzie, MD, FRCSC, FACS

9:35 AM–9:39 AM

Thoracolumbar Kyphoscoliosis

Nicholas Fletcher, MD

9:40 AM–9:44 AM

Coxa Vara and Acetabular Dysplasia

Haemish Crawford, MD, FRACS

9:45 AM–9:49 AM

LE Malalignment Management with Complications

Jeanne Franzone, MD

9:50 AM–9:54 AM

Update on MPS Medical Therapy

Jaysson Brooks, MD

9:55 AM–10:05 AM

Discussion

Haemish Crawford, MD, FRACS

William Mackenzie, MD, FRCSC, FACS

Nicholas Fletcher, MD

Jeanne Franzone, MD

Jaysson Brooks, MD

10:10 AM–10:30 AM

Break and Exhibits Pacifica 6-7

10:35 AM–11:35 AM

Industry Spotlight Sessions (Non-CME) *See page 32 for details*

THURSDAY, DECEMBER 8
10:35 AM–11:35 AM

DePuy Synthes – Coral Sea

Pediatric Femur Fracture Management

Explore myriad pediatric femur fracture treatment options in this hands-on session with Dr. Walter Samora of Nationwide Children’s Hospital. A case-based discussion on when and where to utilize harness, casting, nailing and plating treatment plans will be followed by both an adolescent nail and submuscular plating lab.

Walter Samora, MD

Medtronic – Pacifica 8-10

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 reduced 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.

Nicholas Fletcher, MD; A. Noelle Larson, MD;
Mark Erickson, MD

OrthoPediatics – Java Sea

Pediatric Femoral Nailing from A to Z

This session will explore the principles of pediatric femoral nailing through case-based discussion followed by a hands-on workshop.

Eric Gordon, MD; Mark Seeley, MD

Stryker – Pacifica 11-12

My Journey: Clarity Through Advanced Imaging and Intraoperative Guidance Systems

Join our expert panel as they discuss recent preclinical data for Airo TruCT. The conversation will center around challenging cases reviewed by surgeon leaders who feel these technologies have facilitated their surgical technique. Also, learn more about recently launched innovative navigation solutions.

Stephen George, MD; John “Jack” Flynn, MD

ZimVie – Banda Sea 2

VB T & PSF: Understanding & Providing the Best Options to Your Patients

Surgical options are as unique as a patient’s pathology. This breakout session will highlight different patient profiles that may consider either a PSF or VBT as treatment options. Faculty will highlight the indications for each procedure and the lessons learned by experience and time, i.e. patients that may have benefitted from each procedure, given the current understanding and availability (FDA approval) of each.

Michael Vitale, MD, MPH; Firoz Miyanji, MD, FRCSC



“You get the basics of pediatric orthopaedics mixed in with lots of innovation and new ideas from the best educators in the business. When you come to this meeting, you get access to a large faculty who are very focused on teaching and are very approachable. I think that’s probably where the education is the best.”

– Derek Kelly, MD, FAAOS, FAOA

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- **Hip Conditions** like developmental and adolescent dysplasia of the hip, Legg-Calvé-Perthes disease and more
- **Spine Conditions** like Scheuermann's disease, scoliosis (idiopathic, neuromuscular, and congenital), spondylolysis, and spondylolisthesis
- **Upper-Extremity Orthopedic Conditions** like brachial plexus injuries, limb-length discrepancy, limb differences and more
- **Sports Injuries** like fractures, recurring injuries, ACL or MCL tears, and more

Learn more: gillettechildrens.org
Speak with a Gillette expert: 651-325-2200

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

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

CME Breakout 2



12:45 PM–2:15 PM Pacifica 11-12

Essentials of Pediatric Orthopaedics II

This session will discuss the basics of pediatric orthopaedics with a focus on recognition of common conditions, understanding the essential evaluation of these conditions, and development of an appropriate treatment plan. This session will be geared towards residents and fellows who would like to develop a strong fundamental base of knowledge and understand a methodology for synthesizing clinical data to develop an appropriate treatment plan for these conditions. Additionally, APPs who run their own clinics will find this session helpful to understand and treat common pediatric conditions.

Moderator: Lindsay Andras, MD

- | | |
|-------------------|--|
| 12:45 PM–12:55 PM | Hip Issues (DDH, SCFE, Coxa Vara, Perthes)
Rachel Thompson, MD |
| 12:56 PM–1:04 PM | Congenital LE Issues (Femoral Deficiency, Fibular and Tibial Deficiency)
David Podeszwa, MD |
| 1:05 PM–1:15 PM | Neonatal Foot Issues (Clubfoot, CVT, Calcaneovalgus, Metatarsus Adductus, Toe Duplications)
Anthony Riccio, MD |
| 1:16 PM–1:24 PM | Common Sports Issues (OCD, ACL, Discoid Meniscus)
Kevin Shea, MD |
| 1:25 PM–1:32 PM | Pediatric Tumors
Alexandre Arkader, MD |
| 1:33 PM–1:38 PM | Discussion
Moderator: Lindsay Andras, MD
Rachel Thompson, MD
David Podeszwa, MD
Anthony Riccio, MD
Kevin Shea, MD
Alexandre Arkader, MD |
| 1:39 PM–1:44 PM | Injuries Around the Elbow
Antonio Andreacchio, MD |
| 1:45 PM–1:50 PM | Injuries Around the Knee
John Lovejoy, MD, FAAOS |
| 1:51 PM–1:56 PM | Discussion
Moderator: Lindsay Andras, MD
Antonio Andreacchio, MD
John Lovejoy, MD, FAAOS |
| 1:57 PM–2:04 PM | Scoliosis and Spondylolisthesis
Matthew Oetgen, MD, MBA |
| 2:05 PM–2:10 PM | Back Pain and Kyphosis
Kali Tileston, MD, FAAOS |

2:11 PM–2:15 PM

Discussion

Moderator: Lindsay Andras, MD
Matthew Oetgen, MD, MBA
Kali Tileston, MD, FAAOS

CME Breakout 2

12:45 PM–2:15 PM Coral Sea

Pediatric Cervical Spine: Primer to Advanced and Neuromonitoring Alerts in Scoliosis Surgery

Essential and innovative topics all about the child’s cervical spine with a bonus small group session with the masters in managing spinal cord monitoring alerts in scoliosis surgery.

12:45 PM–1:40 PM

Moderator: Firoz Miyajni, MD, FRCSC

12:45 PM–12:50 PM

Beginning With the Basics: How to Read a C Spine X-Ray in the Neonate, Child, and Adolescent

Jeffrey Sawyer, MD

12:51 PM–12:56 PM

Upper Cervical Instability – Why the Fuss, How It Can Happen, and What to Do About It

Michael Glotzbecker, MD

12:57 PM–1:01 PM

My Algorithm in “Clearing the C Spine” in the Altered LOC Child

Robert Cho, MD, FAAOS, FAOA

1:02 PM–1:06 PM

The Nuts and Bolts of Putting on a Halo-Thoracic Vest/ Halo-Gravity Traction

Suken Shah, MD, FAOA, FAAOS

1:07 PM–1:11 PM

Instrumentation Techniques for the Cervical Spine: You Got This

Jennifer Bauer, MD, MS

1:12 PM–1:19 PM

Discussion

Jeffrey Sawyer, MD
Michael Glotzbecker, MD
Robert Cho, MD, FAAOS, FAOA
Suken Shah, MD, FAOA, FAAOS
Jennifer Bauer, MD, MS

1:20 PM–1:39 PM

Case Presentations

Firoz Miyajni, MD, FRCSC

1:40 PM–2:15 PM

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

Moderator: Michael Vitale, MD, MPH

1:40 PM–2:09 PM

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

David Skaggs, MD, MMM
A. Noelle Larson, MD
Peter Newton, MD
Michael Glotzbecker, MD
Michelle Welborn, MD
Jennifer Bauer, MD, MS

2:10 PM–2:15 PM

Summary Statement: How I Respond to Intraop Monitoring Changes

Michael Vitale, MD, MPH

CME Breakout 2



12:45 PM–2:15 PM Timor Sea

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

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

Moderator: Pablo Castañeda, MD

- 12:45 PM–12:50 PM **Salter Osteotomy**
Simon Kelley, MBChB, PhD, FRCS (Tr & Orth)
- 12:51 PM–12:56 PM **Dega/Pemberton Osteotomy**
Wudbhav “Woody” Sankar, MD
- 12:57 PM–1:02 PM **San Diego Acetabuloplasty**
V. Salil Upasani, MD
- 1:03 PM–1:15 PM **Short Case Review**
Pablo Castañeda, MD
- 1:16 PM–2:15 PM **Table Instruction**
Ernie Sink, MD
Pablo Castañeda, MD
Wudbhav “Woody” Sankar, MD
V. Salil Upasani, MD
Simon Kelley, MBChB, PhD, FRCS (Tr & Orth)

CME Breakout 2



12:45 PM–2:15 PM Banda Sea

Ponseti Casting (Hands-on)

Brief introduction with Ponseti tips and tricks followed by hands-on casting lab with ample opportunity to learn and practice.

Moderator: Maryse Bouchard, MD, MSc

- 12:50 PM–12:55 PM **Clubfoot Ponseti Video**
Derek Kelly, MD, FAAOS, FAOA
- 12:56 PM–1:01 PM **5 Things to Do for the Complex Clubfoot**
Javier Masquijo, MD
- 1:02 PM–1:07 PM **5 Things Never to Do When Casting Clubfeet**
Maryse Bouchard, MD, MSc
- 1:08 PM–1:13 PM **5 Things to Do for Running the Optimal Clubfoot Clinic**
Deborah Eastwood, MD
- 1:14 PM–2:15 PM **Hands-on Instruction**
Vincent Mosca, MD
Javier Masquijo, MD
Kenneth Noonan, MD, MHCDS
Alaric Aroojis, MS, D’Ortho, DNB

Breakout 2

12:45 PM–2:15 PM Java Sea



Complex Trauma – Upper & Lower Extremity Deficiency Treatment Options (Non-CME) *Sponsored by OrthoPediatics*

The participant will understand the fundamental elements of upper and lower extremity deficiency treatment.

Moderator: Diana Halback, MSN, CPNP, RNFA

12:45 PM–12:52 PM	An Overview of the Options: Devices, Limb Salvage, & Amputation Ray Kleposki, MSN, CPNP
12:53 PM–1:00 PM	Don't Be Scared: Internal & External Devices for Trauma & Limb Salvage Ben Johnson, PA-C
1:01 PM–1:08 PM	Irrigation and Debridement: The Solution to Pollution is... Tracy Warhooover, MSN, RN, CPNP
1:09 PM–1:16 PM	Discussion Ray Kleposki, MSN, CPNP Ben Johnson, PA-C Tracy Warhooover, MSN, RN, CPNP
1:17 PM–1:24 PM	The Basics for the APP: Upper & Lower Extremity Amputations Sheila Mason, PNP
1:25 PM–1:32 PM	Wound Management in Complex Trauma Erin Dawicki, PA-C
1:33 PM–1:40 PM	Discussion Sheila Mason, PNP Erin Dawicki, PA-C
1:41 PM–1:48 PM	Frame 101: A Hands-on Experience OrthoPediatics
1:49 PM–1:56 PM	Tips & Tricks for Frame Management OrthoPediatics
1:57 PM–2:04 PM	Frame Construction OrthoPediatics
2:05 PM–2:15 PM	Frame Lab OrthoPediatics

CME Breakout 2

12:45 PM–2:15 PM **Pacifica 1-3**



Sports, Bone Lesions, and Pseudotumors: Not Just for Oncologists

This session focuses on bone lesions and pseudotumors related to sport and sport injury.

12:45 PM–1:12 PM

Real Tumors and Sport

Moderator: Alexandre Arkader, MD

12:45 PM–12:50 PM

Osteochondroma and Sport Participation

Eric Edmonds, MD

12:51 PM–12:56 PM

Non-Ossifying Fibroma (The Incidentals and the Problematic)

Jaysson Brooks, MD

12:57 PM–1:02 PM

“Incidental” Tumors and Sports Injuries

Alexandre Arkader, MD

1:03 PM–1:12 PM

Discussion

Eric Edmonds, MD
Jaysson Brooks, MD
Alexandre Arkader, MD

1:13 PM–1:46 PM

Wanna-be Tumors and Sport

Moderator: Mininder Kocher, MD, MPH

1:13 PM–1:18 PM

Stress Fractures of the Foot

Bryan Tompkins, MD

1:19 PM–1:24 PM

Stress Fractures of the Tibia

Christof Radler, MD

1:25 PM–1:30 PM

Stress Fractures of the Shoulder

Christine Ho, MD

1:31 PM–1:36 PM

Stress Fractures of the Spine

Scott Luhmann, MD

1:37 PM–1:46 PM

Discussion

Mininder Kocher, MD, MPH
Bryan Tompkins, MD
Christof Radler, MD
Christine Ho, MD
Scott Luhmann, MD

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1:47 PM–2:15 PM	Pseudotumors and Sport Moderator: Theodore Ganley, MD
1:47 PM–1:52 PM	Exercise Induced Compartment Syndrome Jennifer Beck, MD, FAAOS, FAOA, CAQ-SM
1:53 PM–1:58 PM	Tibialis Anterior Herniation Kevin Shea, MD
1:59 PM–2:04 PM	Wrestler’s Knee and Hematomas Todd Milbrandt, MD
2:05 PM–2:15 PM	Discussion Theodore Ganley, MD Jennifer Beck, MD, FAAOS, FAOA, CAQ-SM Kevin Shea, MD Todd Milbrandt, MD

2:20 PM–2:40 PM **Break and Exhibits Pacifica 6-7**

Concurrent Session 2



2:45 PM–4:30 PM Pacifica 1-3

Spinal Deformity Round Robin: AIS, Spondylolisthesis, and Neuromuscular Scoliosis

This session will discuss foundations and latest innovations in Adolescent Idiopathic Scoliosis, Spondylolysis, and Spondylolisthesis and Neuromuscular Scoliosis. Assessment of growth, the role of non-operative care and masters’ techniques in operative treatment will be presented. Fundamentals of spondylolysis and spondylolisthesis including pathoetiology, diagnosis, and treatment will be discussed and faculty will debate operative management techniques. The session will finish with a knowledge update on the management of spinal deformity in the neuromuscular patient.

Moderator: David Skaggs, MD, MMM
eModerator: Ron El-Hawary, MD, MSc, FRCS(C)

2:45 PM–2:49 PM	Assessing Growth in Patients with Idiopathic Scoliosis Accurately: Are We There Yet? Michelle Welborn, MD
2:50 PM–2:54 PM	When is the Curve Not Idiopathic? Jeffrey Sawyer, MD
2:55 PM–2:59 PM	Bracing in AIS: Who, With, What, and How Much? Stefan Parent, MD, PhD, FRCS(C)
3:00 PM–3:05 PM	Discussion Michelle Welborn, MD Jeffrey Sawyer, MD Stefan Parent, MD, PhD, FRCS(C)
3:06 PM–3:10 PM	What Levels to Fuse in AIS: The Basics and Beyond A. Noelle Larson, MD
3:11 PM–3:15 PM	No Longer Ignoring the Sagittal Plane: Restoration of Thoracic Kyphosis in AIS Suken Shah, MD, FAOA, FAAOS

3:16 PM–3:20 PM **Lenke 1C and Lenke 3 Curves: STF is Never or Ever an Option?**
Peter Newton, MD

3:21 PM–3:26 PM **Pros and Cons of Growth Modulation vs. Standard Fusion for Idiopathic Scoliosis**
Firoz Miyanji, MD, FRCSC

3:27 PM–3:32 PM **Discussion**
A. Noelle Larson, MD
Suken Shah, MD, FAOA, FAAOS
Peter Newton, MD
Firoz Miyanji, MD, FRCSC

3:33 PM–4:03 PM **Moderator: Michael Vitale, MD, MPH**
eModerator: Jennifer Bauer, MD, MS

3:33 PM–3:37 PM **Pathoetiology in Spondylolysis and Spondylolisthesis Revisited**
Lindsay Andras, MD

3:38 PM–3:42 PM **Classification and Management Strategies for Spondylolisthesis**
A. Noelle Larson, MD

3:43 PM–3:46 PM **Spondylolisthesis – Case Presentation to Set Stage for Debate**
Suken Shah, MD, FAOA, FAAOS

3:47 PM–3:51 PM **Debate: Surgical Fusion in Situ Will Offer Best Long-Term Outcome Without Added Risk**
Daniel Sucato, MD, MS

3:52 PM–3:56 PM **Debate: Reduction of High Grade Slip is the Best Way to Go**
Stefan Parent, MD, PhD, FRCS(C)

3:57 PM–4:03 PM **Discussion**
Lindsay Andras, MD
A. Noelle Larson, MD
Suken Shah, MD, FAOA, FAAOS
Daniel Sucato, MD, MS
Stefan Parent, MD, PhD, FRCS(C)

4:04 PM–4:08 PM **Neuromuscular Spinal Deformity is Not All the Same: Overview of Disorders and Tips for Management**
Robert Cho, MD, FAAOS, FAOA

4:09 PM–4:13 PM **Neuromuscular Spinal Deformity: Patient Optimization – Preop, Intraop, and Postop Strategies**
Michael Glotzbecker, MD

4:14 PM–4:18 PM **Instrumentation and Fusion Strategies of the “6th Lumbar Vertebra” – the Sacropelvis**
Stefan Parent, MD, PhD, FRCS(C)

4:19 PM–4:23 PM **My 3 Pearls in Neuromuscular Spinal Deformity: Ideal Approach, Ideal Implants, Ideal Rod Contour**
Peter Newton, MD

4:24 PM–4:30 PM **Discussion**
Robert Cho, MD, FAAOS, FAOA
Michael Glotzbecker, MD
Stefan Parent, MD, PhD, FRCS(C)
Peter Newton, MD



Concurrent Session 2

2:45 PM–4:30 PM Oceana Grand 6-7

Controversies in Adolescent Hip Debated

This debate-style session will contrast differing views on circumstances surrounding variations in practice for common hip issues.

2:45 PM–4:30 PM

Challenging Adolescent Hips

Moderator: Pablo Castañeda, MD
eModerator: Deborah Eastwood, MD

2:45 PM–3:08 PM

Unstable Slips Debated

2:45 PM–2:50 PM

Leadbetter with ICP Monitoring

Jonathan Schoenecker, MD, PhD

2:51 PM–2:56 PM

Modified Dunn

Daniel Sucato, MD, MS

2:57 PM–3:02 PM

Parsch/Anterior Open

Pablo Castañeda, MD

3:03 PM–3:08 PM

Discussion

Daniel Sucato, MD, MS
Jonathan Schoenecker, MD, PhD
Pablo Castañeda, MD

3:09 PM–3:32 PM

Residual SCFE Debated

3:09 PM–3:14 PM

Arthroscopic Osteoplasty

Henry Ellis, MD

3:15 PM–3:20 PM

SDH, Osteoplasty, Imhauser

Ernie Sink, MD

3:21 PM–3:26 PM

Derotation Alone

Wudbhav “Woody” Sankar, MD

3:27 PM–3:32 PM

Discussion

Henry Ellis, MD
Ernie Sink, MD
Wudbhav “Woody” Sankar, MD

3:33 PM–4:02 PM

Adolescent AVN Debated

3:33 PM–3:38 PM

“Wide” Core Decompression

Ira Zaltz, MD

3:39 PM–3:44 PM

Multiple Epiphyseal Drilling

V. Salil Upasani, MD

- 3:45 PM–3:50 PM **Vascularized Fibular Grafting**
Jonathan Schoenecker, MD, PhD
- 3:51 PM–3:56 PM **PT, Bracing, Delayed THA**
Simon Kelley, MBChB, PhD, FRCS (Tr & Orth)
- 3:57 PM–4:02 PM **Discussion**
Ira Zaltz, MD
Jonathan Schoenecker, MD, PhD
V. Salil Upasani, MD
Deborah Eastwood, MD
- 4:03 PM–4:30 PM **Adolescent Hip Cases**
Wudbhav “Woody” Sankar, MD

3:00 PM–3:45 PM Banda Sea

Ponseti On The Go (Hands-on) *Sponsored by a grant provided by MD Orthopaedics*

Brief introduction with Ponseti tips and tricks followed by hands-on casting lab with ample opportunity to learn and practice.

Faculty: L. Reid Nichols, MD, FAOA, FAAOS; Bryan Tompkins, MD; Vincent Mosca, MD; Maryse Bouchard, MD, MSc; Derek Kelly, MD, FAAOS, FAOA



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



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Friday, December 9, 2022

7:00 AM–3:30 PM **Registration**

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

7:30 AM–10:05 AM Pacifica 11-12

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?! Faculty will be dropping pearls on all this and more. Plus, get an update on coding, practice management, using social media in your practice, and the Annual Meeting, if you missed it.

Moderators: James McCarthy, MD, MHCM; Suken Shah, MD, FAOA, FAAOS

- | | |
|-----------------|---|
| 7:30 AM–7:56 AM | <p>Teach the Teacher
Sandra Jarvis-Selinger, PhD
Craig Ebersson, MD, FAOA
Thomas McPartland, MD</p> |
| 7:57 AM–8:02 AM | <p>Discussion
Sandra Jarvis-Selinger, PhD
Craig Ebersson, MD, FAOA
Thomas McPartland, MD</p> |
| 8:03 AM–8:09 AM | <p>Giving a Killer Talk
Jonathan Schoenecker, MD, PhD</p> |
| 8:10 AM–8:16 AM | <p>Speaker and Communications Training
Sandra Jarvis-Selinger, PhD</p> |
| 8:17 AM–8:30 AM | <p>Providing and Receiving Feedback
Craig Ebersson, MD, FAOA
Thomas McPartland, MD</p> |
| 8:31 AM–8:36 AM | <p>Discussion
Jonathan Schoenecker, MD, PhD
Sandra Jarvis-Selinger, PhD
Craig Ebersson, MD, FAOA
Thomas McPartland, MD</p> |
| 8:37 AM–8:43 AM | <p>Coding & Billing Update for 2022
Kevin Neal, MD</p> |
| 8:44 AM–8:50 AM | <p>Practice Management Tips (APPs)
Jeffrey Sawyer, MD</p> |
| 8:51 AM–9:02 AM | <p>Using Social Media in Your Practice
Robert Cho, MD, FAAOS, FAOA
Jaysson Brooks, MD</p> |
| 9:03 AM–9:09 AM | <p>Talking to the C Suite
David Skaggs, MD, MMM</p> |
| 9:10 AM–9:16 AM | <p>Building a Clinical Research Program
Peter Newton, MD</p> |

9:17 AM–9:24 AM	Discussion Kevin Neal, MD Jeffrey Sawyer, MD Robert Cho, MD, FAAOS, FAOA Jaysson Brooks, MD David Skaggs, MD, MMM Peter Newton, MD
9:25 AM–9:31 AM	Best Paths to Promotion (Academic and Otherwise) Michael Vitale, MD, MPH
9:32 AM–9:38 AM	Mentorship/Sponsorship in Pediatric Orthopaedics – Practical Deborah Eastwood, MD
9:39 AM–9:45 AM	Mentorship/Sponsorship in Pediatric Orthopaedics – Academic John “Jack” Flynn, MD
9:46 AM–9:52 AM	Highlights of the 2022 Annual Meeting Matthew Oetgen, MD, MBA
9:53 AM–9:59 AM	Top Ten Peds Ortho Articles of 2022 Lindsay Andras, MD
10:00 AM–10:05 AM	Discussion Michael Vitale, MD, MPH Deborah Eastwood, MD John “Jack” Flynn, MD Matthew Oetgen, MD, MBA Lindsay Andras, MD

Concurrent Session 3

8:05 AM–10:05 AM Pacifica 1-3



Knee Injuries and Management of the Whole Athlete

Management of the whole athlete and knee injuries: psychological aspects of injury and engaging the family as a resource.

8:05 AM–10:05 AM The Psychology of Sport Injuries

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

8:05 AM–8:06 AM	Welcome Remarks Moderator: Eric Edmonds, MD
8:07 AM–8:13 AM	Engaging the Elite Childhood Athlete Mininder Kocher, MD, MPH
8:14 AM–8:20 AM	How to Deal With Parents of an Injured Athlete Christine Ho, MD
8:21 AM–8:27 AM	Depression and Sports Henry Ellis, MD
8:28 AM–8:34 AM	Concussion and Post-Concussion Syndrome John Lovejoy, MD, FAAOS

8:35 AM–8:45 AM

Discussion

Eric Edmonds, MD
John Lovejoy, MD, FAAOS
Mininder Kocher, MD, MPH
Christine Ho, MD
Henry Ellis, MD

8:46 AM–9:24 AM

Modalities and Their Role in Managing Athletes

Moderator: Jennifer Beck, MD, FAAOS, FAOA, CAQ-SM

8:46 AM–8:52 AM

CPM Machine and Cryotherapy

Kevin Shea, MD

8:53 AM–8:59 AM

PRP and Other Injectables in Youth Athletes

Theodore Ganley, MD

9:00 AM–9:06 AM

DVT Prevention in Youth Athletes

Henry Ellis, MD

9:07 AM–9:13 AM

Engagement of the Physical Therapist

Eric Edmonds, MD

9:14 AM–9:24 AM

Discussion

Eric Edmonds, MD
Jennifer Beck, MD, FAAOS, FAOA, CAQ-SM
Kevin Shea, MD
Theodore Ganley, MD
Henry Ellis, MD

9:25 AM–10:05 AM

Managing Expectations After Knee Injury

Moderator: Kevin Shea, MD

9:25 AM–9:30 AM

How I Series: Council and Manage ACL Tears

Jennifer Beck, MD, FAAOS, FAOA, CAQ-SM

9:31 AM–9:36 AM

How I Series: Council and Manage OCD Lesions

Theodore Ganley, MD

9:37 AM–9:42 AM

How I Series: Council and Manage Patella Instability

Javier Masquijo, MD

9:43 AM–9:48 AM

How I Series: Council and Manage Meniscus Tears

Mininder Kocher, MD, MPH

9:49 AM–9:54 AM

How I Series: Council and Manage Adolescent Knee Pain

Eric Edmonds, MD

9:55 AM–10:05 AM

Discussion

Kevin Shea, MD
Jennifer Beck, MD, FAAOS, FAOA, CAQ-SM
Theodore Ganley, MD
Javier Masquijo, MD
Mininder Kocher, MD, MPH
Eric Edmonds, MD

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Concurrent Session 3

8:05 AM–10:05 AM **Oceana Grand 6-7**



Cerebral Palsy: Non-Ambulatory Hip and Spine Pathology

Decision-making guidelines for the young non-ambulant CP child with hip and spine pathology.

- 8:05 AM–8:08 AM **Introduction**
Moderator: M. Wade Shrader, MD
eModerator: Benjamin Shore, MD, MPH, FRCSC
- 8:09 AM–8:16 AM **CP 101 – How we Communicate, Tone Management and Surgical Principles**
Tom Novacheck, MD
- 8:17 AM–8:24 AM **CP 101 – Interpreting Gait Without a Gait Lab**
Jon Davids, MD
- 8:25 AM–8:30 AM **Pathophysiology of NM Spine Disease**
M. Wade Shrader, MD
- 8:31 AM–8:36 AM **Pathophysiology of NM Hip Disease**
Rachel Thompson, MD
- 8:37 AM–8:42 AM **Hip and Spine Surveillance: Do We Need Both?**
Robert Kay, MD
- 8:43 AM–8:48 AM **Perioperative Considerations**
Jennifer Laine, MD
- 8:49 AM–8:54 AM **NM Scoliosis <8 Years of Age What to Do – Growing Rods**
Scott Luhmann, MD
- 8:55 AM–9:00 AM **NM Scoliosis <8 Years of Age What to Do – Early Fusion**
Nicholas Fletcher, MD
- 9:01 AM–9:09 AM **Discussion**
Moderator: M. Wade Shrader, MD
- 9:10 AM–9:25 AM **Cases**
Jennifer Laine, MD
Tom Novacheck, MD
Jon Davids, MD
Robert Kay, MD
Rachel Thompson, MD
Jennifer Laine, MD
Scott Luhmann, MD
Nicholas Fletcher, MD
- 9:26 AM–9:31 AM **Hip Subluxation <6 Years of Age (Soft Tissue)**
Benjamin Shore, MD, MPH, FRCSC
- 9:32 AM–9:37 AM **Hip Subluxation <6 Years of Age (Guided Growth)**
Jon Davids, MD
- 9:38 AM–9:43 AM **Hip Subluxation <6 Years of Age (Early VDRO)**
Alaric Aroojis, MS, D’Ortho, DNB

9:44 AM–10:05 AM

Cases

Benjamin Shore, MD, MPH, FRCSC
Jennifer Laine, MD
Robert Kay, MD
Jon Davids, MD
Tom Novacheck, MD
Alaric Aroojis, MS, D'Ortho, DNB
M. Wade Shrader, MD
Rachel Thompson, MD

9:00 AM–9:45 AM **South China Sea**



Pavlik With Ultrasound On The Go (Hands-on)

Join the faculty for a hands-on experience to learn about performing POCUS of the infant hip and tips and tricks on bracing including the Pavlik method and other commonly used braces used to treat hip dysplasia.

Faculty: Deborah Eastwood, MD; Ira Zaltz, MD; Simon Kelley, MBChB, PhD, FRCS (Tr & Orth); Kishore Mulpuri, MD, MBBS, MS(Ortho), MHSc(Epi), FRCSC; Valerie Parrish, PA-C

9:00 AM–9:45 AM **Banda Sea**



Ponseti On The Go (Hands-on) *Sponsored by a grant provided by MD Orthopaedics*

Brief introduction with Ponseti tips and tricks followed by hands-on casting lab with ample opportunity to learn and practice.

Faculty: L. Reid Nichols, MD, FAOA, FAAOS; Bryan Tompkins, MD; Vincent Mosca, MD; Maryse Bouchard, MD, MSc; Derek Kelly, MD, FAAOS, FAOA

10:10 AM–10:30 AM

Break and Exhibits Pacifica 6-7

10:35 AM–11:35 AM

Industry Spotlight Sessions (Non-CME) *See page 50 for details*

11:40 AM–12:30 PM

Lunch and Exhibits Pacifica 6-7

12:00 PM–12:30 PM

Lunchtime Career Development Pacifica 6-7

General Session 3



12:35 PM–2:35 PM **Oceana Grand 6-7**

Author's Preferred Techniques

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

Moderator: John “Jack” Flynn, MD
eModerator: Christine Ho, MD

12:35 PM–12:37 PM

Introduction

Director: Suken Shah, MD, FAOA, FAAOS

12:38 PM–12:42 PM

Rod Contouring for AIS

Peter Newton, MD

12:43 PM–12:47 PM

Posterior Dynamic Deformity Correction Device

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

FRIDAY, DECEMBER 9
10:35 AM–11:35 AM

BioMarin – Banda Sea 2

The Latest Advancements in Achondroplasia

Join Aaron Huser, DO, from the Paley Institute to learn about the latest developments in achondroplasia. Dr. Huser will review the underlying cause of this disproportionate short stature condition and share key information that you and your practice should know. For more resources or to connect with a representative, visit BioMarin in the Exhibit Hall.

Aaron Huser, DO

DePuy Synthes – Coral Sea

Circular Frame Automation & Innovation: Changing the Perception of External Fixation Convenience in Pediatrics

Join Sean Tabaie, MD, as he outlines how he and other surgeons have leveraged frames to treat complex pediatric fractures. Explore the new technologies associated with the MAXFRAME™ System hardware and how you can utilize PFM Software matching in your frame cases. Conclude the session with hands-on experience with MAXFRAME AUTOSTRUT™, the first-of-its-kind hexapod-ring fixation system offering fully automated adjustments up to 20 times per day.

Sean Tabaie, MD

NuVasive – Pacifica 8-10

10 Years of Precice

A review of the evolution of internal limb lengthening and reconstruction methods with the Precice technology platform over the first ten years and a preview of future directions.

Christopher Iobst, MD; Christof Radler, MD

OrthoPediatics – Java Sea

Advancements in Treating Pediatric Scoliosis: Losing the Lead with Intraoperative Flash Navigation and Preserving Motion with Non-Fusion Treatments

Learn about new technologies available for scoliosis correction. This session will demonstrate the simplicity and efficient workflow of flash navigation using visible light and eliminating intraoperative radiation. Additionally, participants will learn how the ApiFix system fits into the non-fusion solutions for AIS followed by a hands-on demonstration.

Ron El-Hawary, MD, MSc, FRCS(C);
Jeffrey Sawyer, MD; Derek Kelly, MD, FAAOS, FAOA

Pacira Biosciences – Timor Sea

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.

Peter Newton, MD; Suken Shah, MD, FAOA, FAAOS


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12:48 PM–12:52 PM	Anterior Vertebral Body Tethering Firoz Miyanji, MD, FRCSC
12:53 PM–12:57 PM	Z-plasties for the Pediatric Orthopaedic Surgeon Donald Bae, MD
12:58 PM–1:02 PM	Discussion Moderator: John “Jack” Flynn, MD eModerator: Christine Ho, MD
1:03 PM–1:07 PM	Radioulnar Synostosis Osteotomy Peter Waters, MD, MMSc
1:08 PM–1:12 PM	Humeral Osteotomy for Cubitus Varus Scott Kozin, MD
1:13 PM–1:17 PM	Compartment Fasciotomy for Acute Trauma vs. Exertional Compartment Syndrome Eric Edmonds, MD
1:18 PM–1:22 PM	Discussion Moderator: John “Jack” Flynn, MD eModerator: Christine Ho, MD
1:23 PM–1:27 PM	On Field Examination for Head/Neck Injury or Concussion Craig Ebersson, MD, FAOA
1:28 PM–1:32 PM	Soft Tissue Release for Spastic Hip Subluxation Benjamin Shore, MD, MPH, FRCSC
1:33 PM–1:37 PM	Guided Growth: Neuromuscular Hip and Knee Jon Davids, MD
1:38 PM–1:42 PM	Spastic Flat Foot Reconstruction M. Wade Shrader, MD
1:43 PM–1:47 PM	Discussion Moderator: John “Jack” Flynn, MD eModerator: Christine Ho, MD
1:48 PM–1:52 PM	Drainage of a Septic Hip Deborah Eastwood, MD
1:53 PM–1:57 PM	Intra and Postop Monitoring of Hip Vascularity: Baby to Young Adult Jonathan Schoenecker, MD, PhD
1:58 PM–2:02 PM	Proximal Humerus Fracture Reduction and Fixation or Not Kenneth Noonan, MD, MHCDS
2:03 PM–2:07 PM	Elastic Nailing of Pediatric Forearm Fracture Antonio Andreacchio, MD
2:08 PM–2:12 PM	Discussion Moderator: John “Jack” Flynn, MD eModerator: Christine Ho, MD
2:13 PM–2:17 PM	Giving Feedback Thomas McPartland, MD

2:18 PM–2:22 PM	Assessment of Nonverbal Communication Steven Frick, MD
2:23 PM–2:27 PM	Second Victim Syndrome: Dealing with a Poor or Unexpected Outcome Julie Samora, MD, PhD, MPH, FAAOS, FAOA
2:28 PM–2:35 PM	Discussion and Voting Moderator: John “Jack” Flynn, MD eModerator: Christine Ho, MD
2:35 PM–2:45 PM	Awards – Presentation of Resident Cases, Top Gun, and Author’s Preferred Techniques
2:50 PM–3:10 PM	Break and Exhibits Pacifica 6-7

CME Breakout 3



3:15 PM–4:45 PM Pacifica 8-10

Cases, Challenges, and Controversies in Pediatric Upper Extremity Surgery

Join our illustrious IPOS[®] faculty for a case-based discussion on common but challenging upper extremity conditions, ranging from radial dysplasia and Madelung deformity to chronic Monteggia lesions and forearm fracture malunions. Learn treatment approaches and surgical techniques that you can apply to your patients today!

Moderator: Donald Bae, MD

3:15 PM–3:17 PM	Introduction Donald Bae, MD
3:18 PM–3:37 PM	Radial Dysplasia
3:18 PM–3:22 PM	Case Presentation and Controversies Donald Bae, MD
3:23 PM–3:27 PM	The Case for Centralization Scott Kozin, MD
3:28 PM–3:32 PM	The Case for Soft Tissue Mobilization Peter Waters, MD, MMSc
3:33 PM–3:40 PM	Discussion Moderator: Donald Bae, MD
3:41 PM–4:00 PM	Madelung/Post-Traumatic Madelung
3:41 PM–3:45 PM	Case Presentation and Controversies Scott Kozin, MD
3:46 PM–3:50 PM	Case for Early Physiolsis Julie Samora, MD, PhD, MPH, FAAOS, FAOA
3:51 PM–3:55 PM	Case for Late Corrective Osteotomy Donald Bae, MD
3:56 PM–4:00 PM	Discussion Moderator: Scott Kozin, MD

4:01 PM–4:20 PM	Chronic Monteggia
4:01 PM–4:05 PM	Case Presentation and Controversies Peter Waters, MD, MMSc
4:06 PM–4:10 PM	Case for Reconstruction With Single-Stage Osteotomy Donald Bae, MD
4:11 PM–4:15 PM	Case for Correction via External Fixator-Assisted Gradual Distraction Scott Kozin, MD
4:16 PM–4:20 PM	Discussion Moderator: Peter Waters, MD, MMSc
4:21 PM–4:45 PM	Forearm Fracture Malunion
4:21 PM–4:25 PM	Case Presentation and Controversies Julie Samora, MD, PhD, MPH, FAAOS, FAOA
4:26 PM–4:30 PM	Case for Corrective Wedge & Derogation Osteotomies Peter Waters, MD, MMSc
4:31 PM–4:35 PM	Case for Osteotomies Using 3D Models and Customized Jigs Julie Samora, MD, PhD, MPH, FAAOS, FAOA
4:36 PM–4:45 PM	Discussion Moderator: Julie Samora, MD, PhD, MPH, FAAOS, FAOA

CME Breakout 3



3:15 PM–4:45 PM Pacifica 1-3

Tumors and Infection Update

Caring for patients with tumors and MSK infections remains a vital part of being a pediatric orthopaedist. There can be substantial diagnostic overlap among these conditions. This symposium will help the learner to develop an algorithm for evaluating and managing patients with MSK infections and tumors. From initial workup and management, to addressing complications and identifying “chameleons” that can fool the best of us, our expert panel will provide the learner with a firm foundation in the treatment of these conditions. Both didactic learning as well as case-based discussion will facilitate a fun and educational session aimed to help us all stay out of trouble and provide excellent care for our patients.

3:15 PM–3:17 PM	Welcome to Tumor and Infection Opening Remarks Moderator: Craig Ebersson, MD, FAOA
3:18 PM–4:00 PM	MSK Infection
3:18 PM–3:22 PM	MSK Infection – The Good and The Bad V. Salil Upasani, MD
3:23 PM–3:28 PM	MSK Infection – The Ugly Ron El-Hawary, MD, MSc, FRCS(C)
3:29 PM–3:34 PM	Questions From Audience Moderator: Jonathan Schoenecker, MD, PhD

- 3:35 PM–3:40 PM **MSK Infection – After the Storm**
Alaric Aroojis, MS, D’Ortho, DNB
- 3:41 PM–3:45 PM **MSK Infection – Staying Out of Trouble**
Thomas McPartland, MD
- 3:46 PM–3:50 PM **Questions From Audience**
Moderator: Craig Ebersson, MD, FAOA
- 3:51 PM–4:00 PM **Cases**
Moderators: Craig Ebersson, MD, FAOA; Jonathan Schoenecker, MD, PhD

4:01 PM–4:45 PM **MSK Tumors**

- 4:01 PM–4:06 PM **MSK Tumors – Benign**
John Lovejoy, MD, FAAOS
- 4:07 PM–4:12 PM **MSK Tumors – Malignant**
Alexandre Arkader, MD
- 4:13 PM–4:15 PM **Questions From Audience**
Moderator: Craig Ebersson, MD, FAOA
- 4:16 PM–4:21 PM **MSK Chameleons**
Kali Tileston, MD, FAAOS
- 4:22 PM–4:27 PM **MSK Tumors Staying Out of Trouble**
Alexandre Arkader, MD
- 4:28 PM–4:33 PM **Questions From Audience**
Moderator: Jonathan Schoenecker, MD, PhD
- 4:34 PM–4:45 PM **MSK Tumors Cases**
Moderators: Craig Ebersson, MD, FAOA; Jonathan Schoenecker, MD, PhD

CME Breakout 3



3:15 PM–4:45 PM **Timor Sea**

Pelvic Osteotomies II: Triple, PAO (Hands-on)

Part 2: Triple and Periacetabular Osteotomies

Moderator: Ernie Sink, MD

- 3:15 PM–3:25 PM **PAO**
Ira Zaltz, MD
- 3:26 PM–3:31 PM **Triple Osteotomy**
Wudbhav “Woody” Sankar, MD
- 3:32 PM–4:45 PM **Hands-on Instruction**
Ira Zaltz, MD
Ernie Sink, MD
Wudbhav “Woody” Sankar, MD
Simon Kelley, MBChB, PhD, FRCS (Tr & Orth)
V. Salil Upasani, MD
Daniel Sucato, MD, MS



CME Breakout 3

3:15 PM–4:45 PM **Banda Sea**

Clubfoot and Ponseti Bracing (Hands-on)

Brief introduction with clubfoot bracing tips and tricks followed by hands-on brace application/fitting lab with ample opportunity to learn and practice. Tenotomy model and technique tips available for practice.

Moderator: Maryse Bouchard, MD, MSc

- | | |
|-----------------|--|
| 3:15 PM–3:20 PM | How to Pick the Right Brace for Your Patient?
Javier Masquijo, MD |
| 3:21 PM–3:26 PM | When Can You Safely Deviate From the Standard Ponseti Protocol for Bracing?
Derek Kelly, MD, FAAOS, FAOA |
| 3:27 PM–3:32 PM | Bracing Compliance Tricks
Vishwas Talwalkar, MD |
| 3:33 PM–3:38 PM | Bracing for the Older Child After Age 5 Years
Maryse Bouchard, MD, MSc |
| 3:39 PM–4:45 PM | Hands-on Instruction
Vincent Mosca, MD
Alaric Aroojis, MS, D'Ortho, DNB
Bryan Tompkins, MD
Javier Masquijo, MD
Derek Kelly, MD, FAAOS, FAOA
Vishwas Talwalkar, MD |

CME Breakout 3

3:15 PM–4:45 PM **Coral Sea**



Amputation & Limb Deficiency: Now What? Evaluation and Management of the Pediatric Limb Deficient Patient

The participant will be able to understand the importance of a multidisciplinary approach to assist and care for the pediatric limb deficient patient. The participant will be able to assess the common gait deviations in the amputee and discuss both prosthetic and patient causes leading to the deviation.

Moderator: Stephanie de Jager, MSN, CPNP

- | | |
|-----------------|--|
| 3:15 PM–3:22 PM | The Parts We Play: PT, OT, and the APP
Tracy Warhooover, MSN, RN, CPNP |
| 3:23 PM–3:30 PM | The O&P and APP Relationship
Diana Halback, MSN, CPNP, RNFA |
| 3:31 PM–3:38 PM | Lower Extremity Amputation Principles
Jennifer Laine, MD |
| 3:39 PM–3:47 PM | Discussion
Tracy Warhooover, MSN, RN, CPNP
Diana Halback, MSN, CPNP, RNFA
Jennifer Laine, MD |

- 3:48 PM–3:55 PM **Gait Analysis: What is Normal? What Do You See in Limb Deficiency?**
Rachel Thompson, MD
- 3:56 PM–4:26 PM **Common Gait Deviations in the Pediatric Amputee: Prosthetic and Amputee Causes**
Sheila Mason, PNP
Valerie Parrish, PA-C
Jennifer Laine, MD
Colleen Coulter, PT
- 4:27 PM–4:39 PM **Case Presentations: Amputation and Limb Deficiency**
Jeanne Franzone, MD
Jennifer Laine, MD
Rachel Thompson, MD
Sheila Mason, PNP
Colleen Coulter, PT
- 4:40 PM–4:45 PM **Discussion**
Jeanne Franzone, MD
Jennifer Laine, MD
Rachel Thompson, MD
Sheila Mason, PNP
Colleen Coulter, PT

3:15 PM–4:45 PM **Pacifica 11-12**

Course for Mid-Career Surgeons



This session is a Masterclass in Leadership from POSNA's experts. Styles of leadership and how to choose best fit, achieving "wild" success in leadership from the Chief's Roundtable, crucial conversations, running a meeting, and improving performance.

Moderators: John "Jack" Flynn, MD; James McCarthy, MD, MHCM

- 3:15 PM–3:32 PM **Leadership Styles and Choosing the Best Fit for You**
Peter Waters, MD, MMSc
Steven Frick, MD
- 3:33 PM–3:40 PM **Increase DEI in Your Department and Reduce Disparity in Your Practice**
Julie Samora, MD, PhD, MPH, FAAOS, FAOA
- 3:41 PM–4:08 PM **Achieving Wild Success (Chief's Roundtable)**
Moderator: John "Jack" Flynn, MD
James McCarthy, MD, MHCM
Peter Newton, MD
David Skaggs, MD, MMM
Steven Frick, MD
Matthew Oetgen, MD, MBA
Michael Glotzbecker, MD
- 4:09 PM–4:26 PM **How to Choose Your Successor and Make that Transition**
Moderator: James McCarthy, MD, MHCM
James Beaty, MD
James Kasser, MD
Charles Price, MD

4:27 PM–4:33 PM	Getting Better at Crucial Conversations James McCarthy, MD, MHCM
4:34 PM–4:39 PM	Five Tips for Conducting an Effective Meeting Steven Frick, MD
4:40 PM–4:45 PM	My Top Hacks for Improving Performance Suken Shah, MD, FAOA, FAAOS
4:45 PM–5:45 PM	Happy Hour

Saturday, December 10, 2022

8:00 AM–10:00 AM	Registration
7:00 AM–8:00 AM	Breakfast Pacifica 6-7

8:05 AM–10:05 AM Pacifica 11-12

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 best practices of masters in the field in managing departments.

Moderator: James McCarthy, MD, MHCM



8:05 AM–8:06 AM	Morning Remarks Suken Shah, MD, FAOA, FAAOS
8:07 AM–8:22 AM	Fellowship Director Update Meghan Imrie, MD
8:23 AM–8:28 AM	Discussion Meghan Imrie, MD
8:29 AM–8:44 AM	Innovations in Surgical Coaching Wudbhav “Woody” Sankar, MD
8:45 AM–8:50 AM	Discussion Wudbhav “Woody” Sankar, MD
8:51 AM–8:58 AM	POSNA Workforce Initiative Jeffrey Sawyer, MD
8:59 AM–9:17 AM	Managing Difficult People Moderator: James McCarthy, MD, MHCM William Mackenzie, MD, FRCSC, FACS Steven Frick, MD
9:18 AM–9:23 AM	Discussion James McCarthy, MD, MHCM William Mackenzie, MD, FRCSC, FACS Steven Frick, MD

9:24 AM–9:54 AM **Chiefs & Chairs Share Best Practices and QI Efforts**
 Moderator: James McCarthy, MD, MHCM
 Jeffrey Sawyer, MD
 Michael Vitale, MD, MPH
 Steven Frick, MD

9:55 AM–10:05 AM **Applying the Teachings of Stoicism**
 John “Jack” Flynn, MD

Concurrent Session 4

8:05 AM–10:05 AM **Pacifica 8-10**



Controversies in Pediatric Foot and Ankle: When to Operate and When to Wait

Experts discuss the pros and cons of operating on commonly seen and debated foot and ankle injuries and pathologies.

8:05 AM–8:10 AM **Welcome Remarks**
 Moderator: Maryse Bouchard, MD, MSc

8:11 AM–8:49 AM **Sports Foot and Ankle**
 eModerator: Anthony Riccio, MD

8:11 AM–8:17 AM **Do Not Operate: Lateral Ankle Instability**
 Eric Edmonds, MD

8:18 AM–8:24 AM **Operate: Lateral Ankle Instability**
 Mininder Kocher, MD, MPH

8:25 AM–8:31 AM **Do Not Operate: Osteochondral Lesion of the Talus**
 Vishwas Talwalkar, MD

8:32 AM–8:38 AM **Operate: Osteochondral Lesion of the Talus**
 Javier Masquijo, MD

8:39 AM–8:47 AM **Discussion**
 Eric Edmonds, MD
 Mininder Kocher, MD, MPH
 Vishwas Talwalkar, MD
 Javier Masquijo, MD

8:48 AM–9:26 AM **Foot and Ankle Trauma**
 Moderator: Derek Kelly, MD, FAAOS, FAOA
 eModerator: Javier Masquijo, MD

8:48 AM–8:56 AM **Do Not Operate: Lisfranc Injuries**
 Todd Milbrandt, MD

8:57 AM–9:03 AM **Operate: Lisfranc Injuries**
 Maryse Bouchard, MD, MSc

9:04 AM–9:10 AM **Do Not Operate: Multiple Metatarsal Fractures**
Anthony Riccio, MD

9:11 AM–9:17 AM **Operate: Multiple Metatarsal Fractures**
Kenneth Noonan, MD, MHCDS

9:18 AM–9:26 AM **Discussion**
Todd Milbrandt, MD
Maryse Bouchard, MD, MSc
Anthony Riccio, MD
Kenneth Noonan, MD, MHCDS

9:27 AM–10:05 AM **Foot and Ankle Deformity**
Moderator: Vishwas Talwalkar, MD
eModerator: Maryse Bouchard, MD, MSc

9:27 AM–9:35 AM **Do Not Operate: Congenital Oblique Talus**
Bryan Tompkins, MD

9:36 AM–9:42 AM **Operate: Congenital Oblique Talus**
Vincent Mosca, MD

9:43 AM–9:49 AM **Do Not Operate: Juvenile Hallux Valgus**
Derek Kelly, MD, FAAOS, FAOA

9:50 AM–9:56 AM **Operate: Juvenile Hallux Valgus**
Jon Davids, MD

9:57 AM–10:05 AM **Discussion**
Bryan Tompkins, MD
Derek Kelly, MD, FAAOS, FAOA
Jon Davids, MD

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

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Events

CME Breakout 4



10:30 AM–12:00 PM Coral Sea

Managing Congenital Femoral Deficiency from Hip to Knee

Recognize and learn to manage the alphabet soup of congenital femoral deficiencies through the whole length of the bone.

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

- 10:30 AM–10:33 AM **Welcome and Introduction**
L. Reid Nichols, MD, FAOA, FAAOS
- 10:34 AM–10:42 AM **CFD or PFFD: What Is This Alphabet Soup?**
Christof Radler, MD
- 10:43 AM–10:51 AM **Managing CFD: It’s All About the Principles**
Phillip McClure MD
- 10:52 AM–10:55 AM **Case 1: Something Is Not Quite Right!**
Jeanne Franzone, MD
- 10:56 AM–11:03 AM **Small Group Discussion**
Christof Radler, MD
Jeanne Franzone, MD
David Podeszwa, MD
Phillip McClure, MD
Raymond Liu, MD
- 11:04 AM–11:07 AM **Case Summary**
Jeanne Franzone, MD
- 11:08 AM–11:11 AM **Case 2: At Least You Have a Femur**
David Podeszwa, MD
- 11:12 AM–11:19 AM **Small Group Discussion**
Christof Radler, MD
Jeanne Franzone, MD
David Podeszwa, MD
Phillip McClure, MD
Raymond Liu, MD
- 11:20 AM–11:23 AM **Case Summary**
David Podeszwa, MD

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11:24 AM–11:27 AM	Case 3: It's Not Just the Femur: Managing CFD and Fibular Hemimelia Phillip McClure, MD
11:28 AM–11:35 AM	Small Group Discussion Christof Radler, MD Jeanne Franzone, MD David Podeszwa, MD Phillip McClure, MD Raymond Liu, MD
11:36 AM–11:39 AM	Case Summary Phillip McClure, MD
11:40 AM–11:43 AM	Case 4: Nothing to See Here Raymond Liu, MD
11:44 AM–11:51 AM	Small Group Discussion Christof Radler, MD Jeanne Franzone, MD David Podeszwa, MD Phillip McClure, MD Raymond Liu, MD
11:52 AM–11:55 AM	Case Summary Raymond Liu, MD
11:56 AM–12:00 PM	Wrap Up: Hitting the Highlights L. Reid Nichols, MD, FAOA, FAAOS

CME Breakout 4

10:30 AM–12:00 PM **Pacifica 8-10**



Challenges and Controversies in Clubfoot Management – Case-Based Discussion

Tips and tricks from the experts on managing complex clubfoot problems including resistant feet, neuromuscular clubfoot, atypical recurrence, late presentation, indications and techniques for tendon transfer, post-operative protocols and iatrogenic deformities.

10:30 AM–12:00 PM	Cases Representing a Variety of Complicated Clubfoot Problems and Management Controversies Moderator: Maryse Bouchard, MD, MSc
10:30 AM–12:00 PM	Discussion Derek Kelly, MD, FAAOS, FAOA Javier Masquijo, MD Alaric Aroojis, MS, D'Ortho, DNB Vincent Mosca, MD Todd Milbrandt, MD Kenneth Noonan, MD, MHCDS

CME Breakout 4



10:30 AM–12:00 PM **Java Sea**

Cerebral Palsy: Management of Ambulatory Gait Deviations

A case-based discussion on common gait deviations and surgical management for CP.

10:30 AM–10:33 AM	Introduction Benjamin Shore, MD, MPH, FRCSC
10:34 AM–10:43 AM	Common Gait Deviations Robert Kay, MD
10:44 AM–10:52 AM	Quantitative Gait Analysis Jennifer Laine, MD
10:53 AM–11:02 AM	Strategies for Management of Flexed Knee Gait M. Wade Shrader, MD
11:03 AM–11:12 AM	Surgical Decision Making Rachel Thompson, MD
11:13 AM–11:28 AM	Jump Gait (<10 years of age) Jon Davids, MD Benjamin Shore, MD, MPH, FRCSC Robert Kay, MD Jennifer Laine, MD M. Wade Shrader, MD Tom Novacheck, MD Rachel Thompson, MD Bryan Tompkins, MD
11:29 AM–11:44 AM	Crouch Gait (>16 years of age, with Transverse Pathology) Jon Davids, MD Benjamin Shore, MD, MPH, FRCSC Robert Kay, MD Jennifer Laine, MD M. Wade Shrader, MD Tom Novacheck, MD Rachel Thompson, MD Bryan Tompkins, MD
11:45 AM–12:00 PM	Miserable Malalignment Jon Davids, MD Benjamin Shore, MD, MPH, FRCSC Robert Kay, MD Jennifer Laine, MD M. Wade Shrader, MD Tom Novacheck, MD Rachel Thompson, MD Bryan Tompkins, MD
12:00 PM–1:00 PM	Lunch Pacifica 6-7



AquaCast® Liner

AquaCast® Liner makes waterproof, breathable cast liners and padding used in fracture care which increase patient satisfaction through improved hygiene and better clinical outcomes. Our "version 5.0" rolls, which enable patients to wash hands and bathe, are greatly improved to make application easier and reduce unscheduled cast changes. Orthopaedic providers describe our rolls as a cost-effective marketing tool that increases patient satisfaction – *and* referrals. The patented design of the Hipster® protective liner (used for hip spicas and other body casts) makes application faster and easier. AquaCast has become *the* choice for providers across the globe. Visit aquacast.com to learn more.



Association of Children's Prosthetic-Orthotic Clinics (ACPOC)

The Association of Children's Prosthetic-Orthotic Clinics (ACPOC) is recognized as the worldwide leader of multidisciplinary rehabilitative care of children, adolescents, and young adults with musculoskeletal differences. ACPOC stemmed from origins over 50 years ago when a subcommittee was formed of the National Academy of Sciences and the Prosthetic Research and Development Committee. The goal was to raise the standard of prosthetic care for children in the United States by:

- Evaluating experimental components
- Disseminating information
- Establishing criteria for clinic

By 1970, the subcommittee was charged to enlarge its sphere of activity to include children's orthotics and mobility aids. By 1979, the general format of the Association of Children's Prosthetic-Orthotic Clinics was accepted. Annual conferences were expanded to include clinic chiefs and their team members. This format of annual interdisciplinary conferences hosted by selected clinics from the United States and Canada continues to this day.



Biedermann Motech

Since 1916 Biedermann has been working in synergy with world class surgeons to solve clinical challenges through the development of next generation technology. Specialising on the spine since the 1980s has allowed us to become a leader in spinal innovation, bringing life-changing technology to the world through specialist surgeons.

Biedermann is a mid-sized, international, family owned and operated group of companies with headquarters in the Black Forest, Germany (Villingen-Schwenningen) and the USA (Miami). Our focus is on the development, production and distribution of innovative implants and instruments for spinal and extremity surgery. We research, develop, manufacture and distribute high-quality implant systems in collaboration with healthcare professionals, technology partners, scientific institutions and specialist companies with the goal of achieving improved clinical outcomes.



Biocomposites

We are distinct in that our team of specialists is singularly focused on the development of innovative calcium compounds for surgical use. Our innovative products are at the forefront of calcium technology and range from bone grafts to matrices that can be used in the presence of infection. We are proud to be driving improved outcomes across a wide range of clinical applications, in musculoskeletal infection, trauma, spine and sports injuries, for surgeons and patients alike.



BioMarin

BioMarin is a world leader in developing and commercializing innovative therapies for rare diseases driven by genetic causes. With a 20-year history, BioMarin remains steadfast to its original mission – to bring new treatments to market that will make a big impact on small patient populations. These conditions are often inherited, difficult to diagnose, progressively debilitating, have few, if any, treatment options, and are usually ignored. Visit www.biomin.com to learn more.



Cerapedics

Cerapedics is an advanced orthobiologics company with the only biologic bone graft in spinal applications that incorporates a small peptide (P-15) as an attachment factor. i-FACTOR® Peptide Enhanced Bone Graft (P-15/ABM) is only the second FDA PMA approved bone graft on the market, and its novel mechanism of action (Attract, Attach, Activate) has shown to be statistically superior to local autograft through an IDE trial on single-level ACDFs in overall clinical success at one year and maintained at two years.



CURE International

CURE International is a Christian nonprofit organization that operates a global network of pediatric surgical hospitals that serve children with disabilities. Patients at CURE children's hospitals suffer from conditions that can limit mobility, opportunities for education, and employment such as cleft lip/palate, neglected clubfoot, bowed legs, burn contractures, spina bifida, or conditions that are life-threatening such as brain tumors and hydrocephalus. In addition to world-class clinical service, CURE intentionally ministers to the emotional and spiritual needs of our patients and their communities. Since its inception in 1996, CURE has conducted more than 5 million patient visits.



CurveBeam AI

CurveBeam AI designs and manufactures weight bearing CT imaging systems for the orthopedic specialties. CurveBeam's HiRise, for the first time, provides 3D functional views for indications including hip dysplasia and flat foot.



DePuy Synthes

DePuy Synthes, the Orthopaedics Company of Johnson & Johnson, provides one of the most comprehensive orthopaedics portfolios in the world that helps heal and restore movement for the millions of patients we serve.



Gillette Children's

Gillette Children's is a global beacon of care for patients who have brain, bone, and movement conditions that start in childhood. Unlike most children's hospitals, Gillette Children's focuses on conditions and injuries affecting musculoskeletal and neurological systems.

Gillette Children's hospital and clinics have earned national and world recognition for excellence in the treatment of cerebral palsy, gait and motion analysis, pediatric orthopedics, pediatric neurology and neurosurgery, and pediatric rehabilitation medicine. Through innovative research, treatments, and supportive technologies, Gillette Children's enables every child to lead a life defined by their dreams, not their diagnoses.



Globus Medical

Globus Medical, a leading musculoskeletal solutions company, is driving significant technological advancements across a complete suite of products ranging from spinal, trauma, and joint reconstruction therapies to imaging, navigation, and robotics. Founded in 2003, Globus' single-minded focus on advancing spinal surgery has made it the fastest growing company in the history of orthopedics. Globus is driven to utilize high-level engineering and technology to achieve pain-free, active lives for all patients with musculoskeletal disorders.



Ipsen

Ipsen is a global biopharmaceutical company focused on innovation and specialty care. At Ipsen, we focus our resources, investments and energy on discovering, developing and commercializing medicines in three key therapeutic areas – Oncology, Rare Disease and Neuroscience. We are dedicated to providing hope for patients whose lives are challenged by unmet medical needs. Our North American operations are located in Cambridge, Massachusetts, one of the company's three global hubs. For more information please visit www.ipsenus.com.



MD Orthopaedics

MD Orthopaedics pioneered a clubfoot brace that became the **accepted standard of care**. Through ongoing innovation, we continue to perfect it.

Since 2004, we've been **partnering with physicians and parents** to create cutting-edge devices that make the clubfoot journey easier for everyone.

Our commitment to **comfort, confidence, and parental peace of mind** continues to guide us along the path to life-changing results.



MedTech International

Med-Tech International is a mission-driven company. For us, that means a strong collaboration with our clinical partners to continuously deliver innovative and alternative therapies to fulfill clinical needs and improve patient outcomes.

Medtronic

Medtronic

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 90,000+ 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.**

MHE Research Foundation

The MHE Research Foundation is a nonprofit 501(c) (3) organization dedicated to the support of Researchers, Physicians & Families dealing with Multiple Hereditary Exostoses Syndrome (MHE) Multiple Osteochondroma Syndrome (MO) a rare genetic bone disease. The MHE Research Foundation Five point mission is to **REACH**, advance and support the following. **RESEARCH:** to assist and support researchers in order to one day discover a treatment / cure for MHE. Our foundation works hand in hand with researchers and physicians from around the world in this mission. **EDUCATION:** to provide vital clinical informational guides & accompanying video benefiting both families and physicians. **ADVOCACY:** bring awareness about this disease throughout the world. **CLINICAL:** to provide resources directly to families enabling them to locate the medical care they require. **HOPE:** the research being conducted on MHE/MO/HME & the informational resources will bring a better quality of life to the families affected by this disease around the world.



NuVasive

NuVasive is a world leader in minimally invasive, procedurally integrated spine solutions. From complex spinal deformity to degenerative spinal conditions, NuVasive is transforming spine surgery with innovative technologies designed to deliver reproducible and clinically proven surgical outcomes.





nView medical

nView medical is an imaging start-up 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 the operating room with very low levels of radiation. It is a fully integrated AI-enabled imaging and navigation solution. The nView s1 + true-map navigation™ is FDA cleared, has been used in more than 100 surgeries, and is commercially available.

NYRC Brace™ with Smart Brace Technology™

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 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 accordingly to the patient scoliosis curve pattern. The wearable device is able to communicate with a companion proprietary mobile application which stores and processes the collected data and is responsible for data synchronization. All the data related with 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. Our skilled professional experts have received extensive training around the world so that they best meet the needs of our patients. It has been developed to provide, for each case, the most reliable and effective results during the conservative treatment of idiopathic scoliosis. Please visit www.nyrcbrace.com for more information.



Orthofix

Orthofix Medical Inc. is a global medical device company with a spine and orthopedics focus. The Company’s mission is to deliver innovative, quality-driven solutions as we partner with health care professionals to improve patient mobility.

With the most comprehensive portfolio of limb reconstruction products, Orthofix Orthopedics addresses the most challenging pediatric orthopedic conditions worldwide including bone deformity, trauma, and limb lengthening procedures. Focused on the complete patient pathway, we support clinicians and patients through continuous innovation of hardware and enabling digital solutions, clinical evidence and industry-leading medical education programs.





OrthoPediatrix Corp.

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 46 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. In 2022, OrthoPediatrix acquired specialty-brace manufacturer MD Orthopaedics, and Pega Medical – a Canadian based company focused on innovative products including the Fassier-Duval intramedullary nail. OrthoPediatrix' global sales organization is focused exclusively on pediatric orthopedics and distributes its products in the United States and over 70 around the world. For more information, please visit www.orthopediatrics.com.



Pacira BioSciences, Inc.

Pacira BioSciences, Inc. (Nasdaq: PCRX) is committed to providing a non-opioid option 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 treatments: EXPAREL® (bupivacaine liposome injectable suspension), a long-acting, local analgesia 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

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.



Pega Medical

For more than two decades, Pega Medical has been offering innovative deformity correction solutions in Pediatric Orthopedics. Pega's family of IM Nails (Fassier-Duval Telescopic Rod, SLIM, GAP Endo-Exo Medullary Systems) are specifically designed for small bones, often seen with metabolic and genetic diseases. Hinge Plate and the Free-Gliding SCFE Screw complete our portfolio of growth modulating orthopedic devices. For limb deformity and length discrepancy, the Paley's Osteotomy System offers unique instrumentation for complex procedures. The Lollipop modular hip plating system is our latest innovation, as part of forward thinking technologies. In July 2022, Pega Medical became part the OrthoPediatrics family, joining forces to offer the most comprehensive pediatric product portfolio. For more information, please visit www.pegamedical.com.



Rubin Institute for Advanced Orthopedics

The physicians of the LifeBridge Health Center of Rubin Institute for Advanced Orthopedics Excellence located in Baltimore, Maryland, have earned a global reputation for their limb lengthening and deformity correction expertise as well as their innovative techniques for joint preservation and replacement. Physician education is central to the Rubin Institute's mission; we offer a 5-year orthopaedic surgery residency program, both clinical and research fellowships in adult and pediatric orthopedics, and the annual Baltimore Limb Deformity Course (www.DeformityCourse.com). We created two apps (Bone Ninja and Multiplier – each with 75K+ downloads) and two *The Art of Limb Alignment* textbooks available on Amazon. Please visit www.RubinInstitute.com for additional information.



Sira Medical

Sira Medical is developing augmented reality software to help with education, training, and pre-surgical planning. Our patient specific holograms are derived from the same data used to generate a conventional CT scan or MRI making our anatomical clarity and fidelity far superior to what a medical animator or illustrator can piece together. We deliver our holograms two ways: 1) through a mobile device such as an iPad or iPhone or 2) through a head-mounted device such as Microsoft HoloLens. We also provide a 140-model library that explores a range of anatomies. Our software is intuitive and allows professors and students to take 360-degree tours of anatomical components, segment, size and resize, annotate, and record sessions among other features.

Smith+Nephew

Smith+Nephew, Inc.

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 is one of the world's leading medical technology companies and, together with its customers, is driven to make healthcare better. The company offers innovative products and services in Medical and Surgical, Neurotechnology, Orthopaedics and Spine that help improve patient and healthcare outcomes. Alongside its customers around the world, Stryker impacts more than 100 million patients annually. More information is available at www.stryker.com.



UNFO Med Ltd.

Universal Neonatal Foot Orthotics is a revolutionary solution developed specifically for the therapy of Severe Metatarsus Varus, Metatarsus Adductus (severe, moderate and mild), Forefoot Adduction, and pigeon toes in newborns. This therapy is being used worldwide and has finally made its way into North America. UNFO addresses the difficulties and stress of frequent casting, the ineffectiveness of stretching and the consequential under- or over- treatment of Metatarsus Adductus.



WishBone Medical

WishBone Medical is a global pediatric orthopedic company committed to providing highly differentiated pediatric implants, instruments, and solutions in single-use, sterile-packed procedure kits. Our kits are designed to prevent infection, reduce overall costs for customers, and achieve the best outcomes for children around the world who are still growing.

Surgeon-led Innovation | Designed for Kids | Engineered for Efficiency



ZimVie

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.

FOOT ePosters**ePoster 1****Accelerated PONSETI Method: Is It Reliable? A Systematic Review**

Zainab Al Eid, MBBS

Prince Sultan Medical Military City (PSMMC)

ePoster 2**Clinical Outcomes of Percutaneous Tendo-achilles Lengthening in Idiopathic Toe Walking Patients Older than 10 Years of Age**

Stephanie Kha, MD; Halle Freiman, MD; Danika Baskar, MD; Steven Frick, MD

Stanford University Department of Orthopaedic Surgery

HAND & UPPER EXTREMITY ePosters**ePoster 3****“Thumbprint” Cast Reduction for Minimally Displaced Pediatric Supracondylar Humerus Fractures**

Philip Nowicki, MD; Eric Poole, MS; Courtney Schmidt, MD

Helen DeVos Children’s Hospital

ePoster 4**Incidence, Risk Factors, and Consequences of Radiographic Pin Migration after Pinning of Pediatric Supracondylar Humeral Fractures**

Daniel Badin, MD; Mickael Boustany, MD; R. Jay Lee, MD; Ranjit Varghese, MD; Paul Sponseller, MD

Johns Hopkins University

ePoster 5**Pediatric Radial Neck Fractures: Clinical and Radiographic Outcomes of Closed Reduction in the Emergency Department**

Thomas Lewis, MD; Katherine Wood, MD

University of Oklahoma

ePoster 6**3 Pin Constructs for Type 3 Supracondylar Humerus Fractures: Is it Time to Change the Dogma?**

Craig Louer, MD; Kartik Reddy, BA; Jacob Schultz, MD; Andrew Rees, MD; Lucas Wollenman, MD; Nathaniel Lempert, MD; Stephanie Moore-Lotridge, PhD; Jonathan Schoenecker, MD, PhD

Vanderbilt Children’s Orthopaedics

ePoster 7**Risk Factors and Outcomes of Neonatal Radial Nerve Palsy**

Kevin Orellana, BS; Eliza Buttrick, BA; Zoe Belardo, BA; Meagan Pehnke, MS, OTR/L; Sandra Schmieg, MS, OTR/L; Apurva Shah, MD, MBA

Children’s Hospital of Philadelphia

ePoster 8**Traumatic Peripheral Nerve Injuries in Pediatric Patients Treated with Allograft Repair***

Alexis Rounds, MD; Jacqueline Van Gheem, MD; Brendan MacKay, MD

Texas Tech University Health Science Center

HIP ePosters**ePoster 9****A Comparison Between Three Functional Hip Scores for Evaluation of the Pediatric Hip**

Nathan Huebschmann, BA; Karim Masrouha, MD; Aseel Dib, MD; Leon Moscona, MD; Pablo Castañeda, MD

NYU Langone Health

ePoster 10**Prediction Model Following Proximal Femoral Osteotomy in Legg-Calvè-Perthes Disease Using Machine Learning Algorithms**

Sungmin Kim, MD; Jun-Hyuk Lim, MD; Sung-Taek Jung, MD, PhD

Chonnam National University Hospital

ePoster 11**Outcomes of Treatment for Developmental Dislocation of the Hip When the Pavlik Method Has Failed**

Carlos Pargas-Colina, MD; Hayley Sacks, MD; Karim Masrouha, MD; Pablo Castañeda, MD

NYU Langone Health

ePoster 12**Performing Open Reduction and Pelvic Osteotomy for Acetabular Dysplasia in Infants as an Outpatient Procedure is Safe**

Carlos Pargas-Colina, MD; Hayley Sacks, MD; Utkarsh Anil, MD; Pablo Castañeda, MD

NYU Langone Health

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

ePoster 13

Radiology Diagnosis of Epiphysiolysis: The Superiority of the S Sign

Francesca Moller Macherone, MD; Ismael Cañete Campos, MD; Manuela Angulo Aguayo, MD; Catalina Vidal Olate, PT; María José Figueroa; Emilia Riquelme Pontificia Universidad Católica de Chile

ePoster 14

Watchful Waiting for the Undisplaced Hip Dysplasia When Undergoing Contralateral Hip Reconstruction

Nabil Alassaf, MSc, FRCS(C)
Hail Health Cluster

LOWER EXTREMITY & DEFORMITY ePosters

ePoster 15

Are Meniscus Repairs Performed Earlier than Meniscectomies with a Concurrent Anterior Cruciate Ligament Reconstruction?

Zachariah Samuel, BS; Joie Cooper, MS; Utkarsh Ankil, MS; Charles Lin, MD; Cordelia Carter, MD
NYU Langone Health

ePoster 16

Can Socioeconomic Factors Explain Racial Differences in Disease Severity and Treatment in Blount Disease?

Gregory Benes, BS; Diane Ghanem, MD; Daniel Badin, MD; Marc Greenberg, MD; Erin Honcharuk, MD
Johns Hopkins Department of Pediatric Orthopaedics

ePoster 17

Clubfoot and the Ponseti Method: A Bibliometric Analysis

Daniel Yang, MS; Sara Kiani, BA; Jenny Zheng, BS; David Spiegel, MD
Children's Hospital of Philadelphia

ePoster 18

Exploring Outcomes of Rigid Tibial Intramedullary Nailing in Pediatric Patients

Jessica Koshinski, BS; Josh Bram, MD; Preston Gross, BS; Sarah Hine, MD; Daniel Hayes, BS; Peter Fabricant, MD; Mark Seeley, MD
Geisinger Commonwealth School of Medicine

ePoster 19

Factors Influencing Meniscus Repair or Meniscectomy in the Adolescent Population

Zachariah Samuel, BS; Joie Cooper, MS; Utkarsh Ankil, MS; Charles Lin, MD; Cordelia Carter, MD
NYU Langone Health

ePoster 20

Malignant Bone and Soft Tissue Tumors: The Role of the Pediatric Orthopedic Surgeon During Follow-Up

Iris Elena Blasco Smaranda, MD; Maria José Minotta Quebradas, MD; Blanca Diez Sanchez, MD; Alejandra Ron Marques, MD; Eduardo Ortiz Cruz, MD; Juan Cabello Blanco, MD; Gaspar Gonzales Moran, MD
Hospital Universitario La Paz

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Recent Trends in Isolated Meniscus Repair of Adolescents: Have They Become Faster?

Zachariah Samuel, BS; Joie Cooper, MS; Utkarsh Ankil, MS; Charles Lin, MD; Cordelia Carter, MD
NYU Langone Health

ePoster 22

TENS for the Surgical Management of Femoral Shaft Fractures in 6-14 Years Age Group Children

Mohit Khanna, MS Ortho
Pt. B.D. Sharma Post Graduate Institute of Medical Sciences

ePoster 23

Venous Thromboembolism in Pediatric Orthopedics: A Systematic Review

Mathieu Boulet, MD; Stéphane Pelet, MD, FRCSC; Étienne Belzile, MD, FRCSC; Caroline Forsythe, MD, FRCSC
IWK hospital

NEUROMUSCULAR & CEREBRAL PALSY

ePosters

ePoster 24

Long-Term Results of Posterior Medial Lateral Release for Neuromuscular Clubfoot Deformity

Jared May, BS; Jill Larson, MD
Northwestern University Feinberg School of Medicine

ePoster 25

Predictive Value of Reimers Index in Patients with Cerebral Palsy GMFS IV and V that Suffered Hip Re-Luxation on a Previously Surgically Reconstructed Hip

Ana Laura Arenas-Díaz, MD; Carlos Alfonso Guzmán-Martín, MD; Erika A. Barrón-Torres, MD; Thania Ordaz-Robles, MD; Geovanny Oleas-Santillán, MD, MSc; María Fernanda Sánchez-DelaRosa, MD
Hospital Shriners Para Niños, A. C. México

ePoster 26**Smartphone Ownership, Digital Media Use, and Neck Pain Incidence Have All Increased in Kids During the Coronavirus Pandemic**

Zachariah Samuel, BS; Joie Cooper, MS; Utkarsh Ankil, MS; Charles Lin, MD; Cordelia Carter, MD
NYU Langone Health

QUALITY, SAFETY & VALUE INDICATORS ePoster**ePoster 27****Combating the Opioid Crisis: A Novel Approach to Prescribing Post-Operatively**

Jennifer Weiner, DNP, APRN-CNP, CPNP-AC/PC;
Jessica Holstine, MBOE, LSSBB
Nationwide Children's Hospital

SPINE ePosters**ePoster 28****A Stepwise Ponte Osteotomy: Biomechanical Cadaveric Pilot Study of a Risk Minimizing Approach**

Cameron Foreman, MD; Stephanie Kha, MD;
Ian Hollyer, MD; Taylor Johnson, MD; Christian Klemt, PhD; Calvin Chan, MS; John Vorhies, MD

Stanford University Department of Orthopaedic Surgery

ePoster 29**An Effective and Safe Surgical Technique for Salvage of Post-Operative Proximal Junctional Failure in Pediatric Patients—A Case Series**

Mason Fawcett, BA; Richard Schwend, MD, FAOA, FAAP
Children's Mercy Hospital Kansas City

ePoster 30**Back Pain in Adolescent Idiopathic Scoliosis: Is it the Exception or the Rule?**

Carter Clement, MD, MBA; Matthew Darlow, MD;
Stefan Sarkovich, BS; Davis Martin, BS; Peter Issa, BS;
Claudia Leonardi, PhD; Tara Soria, BS

Children's Hospital of New Orleans

ePoster 31**Complications of MCGRs and TGRs in the Management of EOS: A Multicenter Database Study of 800 Patients**

Smitha Mathew, MBBS; Matthew Oetgen, MD, MBA
Children's National Hospital

ePoster 32**Do Preoperative Supine Radiographs Predict Postoperative Residual Lumbar Curvatures in Adolescent Idiopathic Scoliosis?: A Retrospective Cohort Study**

Prashant Rajan, MD; Ryan Sefcik, MD; Richard Steiner, PhD; Todd Ritzman, MD; Lorena Floccari, MD
Summa Health

ePoster 33**Post-Operative Coagulation, Renal and Liver Function in Pediatric Spinal Muscular Atrophy Patients on Gene Therapy**

Sarita Jamil, MD; Nicholas Pekmezian, BS; Brandon Tapasak, BS; Hagen Mancuso, BS; John Lovejoy, MD
UCF College of Medicine

ePoster 34**Scoliosis Facebook Support Groups: Characterizing Post Content, Tone & Information Sharing**

Gregory Benes, BS; Andrew Harris, MD;
Paul Sponseller, MD

Johns Hopkins Department of Pediatric Orthopaedics

ePoster 35**Shoulder and Neck Balance in Adolescent Idiopathic Scoliosis: Correlation Between Clinical Appearance and Radiography**

Nam Vo, MD, PhD

Hospital for Traumatology and Orthopaedics

ePoster 36**Temporary Internal Distraction for Severe Scoliosis: Two-Year Minimum Follow-up**

Daniel Badin, MD; Arjun Gupta, BS; David Skaggs, MD, MMM; Paul Sponseller, MD

Johns Hopkins University

ePoster 37**The Evolving Stall Rate of Magnetically-Controlled Growing Rods Beyond 2 Years Follow-up**

Kenneth Shaw, DO; Amy McIntosh, MD

Scottish Rite for Children

ePoster 38**The Kids Are Not Alright: The Decline of Pre-Operative SRS Scores over Time in Patients with Adolescent Idiopathic Scoliosis**

Adam Jamnik, BA; David Thornberg, BS; Chanhee Jo, PhD; Jaysson Brooks, MD; Amy McIntosh, MD;
Brandon Ramo, MD

Scottish Rite for Children

ePoster 39

When to Fuse Short of the Pelvis in Patients with Cerebral Palsy? Indications and Outcomes

Daniel Badin, MD; Keith Baldwin, MD; Patrick Cahill, MD; David Spiegel, MD; Suken Shah, MD, FAOA, FAOS; Burt Yaszay, MD; Peter Newton, MD; Paul Sponseller, MD

Johns Hopkins University

SPORTS ePosters

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Descriptive Epidemiology of Surgically Treated Osteochondritis Dissecans of the Knee: Lessons Learned from a Large Pediatric Orthopedic Center

Julianna Lee, BA; Nathan Houlihan, BS; Kathleen Maguire, MD; Todd Lawrence, MD; Lawrence Wells, MD; Brendan Williams, MD; Theodore Ganley, MD

Children's Hospital of Philadelphia

ePoster 41

Evaluation of a New Hydrogel Coated Suture on Bovine Meniscal Tear Repair

Stéphanie Lamer, MD; David Mazy, MD; Zhenwei Ma, PhD; Christopher Chung-Tze-Cheong, BSME; Alexander Nguyen, BSME; Jianyu Li, PhD; Marie-Lyne Nault, MD, PhD

University of Montreal

ePoster 42

Welcome Back! Return to Sports Following COVID-19 Peak Has Not Led to Increased Soft Tissue Injury Rate in Pediatric Population

Daniel Yang, MS; Kevin Orellana, BS; Julianna Lee, BA; Alexandra Stevens, BS; Divya Talwar, PhD, MPH; Theodore Ganley, MD

Children's Hospital of Philadelphia

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Tough Adhesive Gel for Meniscal Repair, a New and Innovative Method

Stéphanie Lamer, MD; David Mazy, MD; Zhenwei Ma, PhD; Christopher Chung-Tze-Cheong, BSME; Jianyu Li, PhD; Marie-Lyne Nault, MD, PhD

CHU Sainte Justine

SYNDROMES, DYSPLASIAS & GENETIC CONDITIONS ePosters

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Assessment of Community Awareness of Developmental Dysplasia of the Hip and the Level of Knowledge of its Risk Factors, Treatments, and Complications in Riyadh, Saudi Arabia

Mohammed Alanazi, MD; Raneem Al Saqer, MBBS; Razan Alotaibi, MBBS; Reem Alasmari, MBBS; Wejdan Abokhesheim, MBBS

Princess Nourah Bint Abdul Rahman University

ePoster 45

Growth Charts for Children with Arthrogyposis Multiplex Congenita

Lauren Hyer, MD; Emily Shull, PhD; Bob Fray, PhD; Dillon Graham, MD; David Westberry, MD

Shriners Children's Greenville

ePoster 46

Hand and Wrist Fractures in Osteogenesis Imperfecta: An Analysis of Incidence, Patient-Specific Risk Factors, Fracture Characteristics, and Clinical Outcomes

Todd Phillips, MD; Thomas Mitchell, MD; Barkha Chhabra, MD, MPH; Nikhil Gattu, BA; Ekene Ezeokoli, BS; Bryce Bell, MD

Baylor College of Medicine

ePoster 47

Novel Technique for Bladder Exstrophy Closure with Pelvic Osteotomy and Noninvasive Hip Orthosis

Monica Payares-Lizano, MD; Anna Jacques, DO; Meera Gill, DO; Yvette Elias, OD/L, CHT

Nicklaus Children's Hospital

ePoster 48

The Spectrum of Foot Deformities in Loews-Dietz Syndrome

Daniel Badin, MD; Paul Sponseller, MD

Johns Hopkins University

Language

English is the official language of IPOS®.

No Smoking Policy

Smoking is not permitted during any meeting or event.

Event Cancellation

Due to circumstances beyond our control, the Pediatric Orthopaedic Society of North America may elect to cancel IPOS®.

These circumstances may include, but are not limited to, disaster, severe weather, civil commotion, pandemics, or government laws or regulations. In the event of such cancellation, all IPOS® registrants will be notified by email at the address noted in the POSNA database and registration fees will be refunded in full. Other costs incurred by the registrant, such as airline or hotel penalties, are the responsibility of the registrant.



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Disclaimer

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POSNA MISSION STATEMENT: To advance pediatric orthopaedics by promoting education, research, and quality care

POSNA VISION STATEMENT: 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 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.

Join!

Become a POSNA
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- Reduced registration fees for Annual Meeting and International Pediatric Orthopaedic Symposium (IPOS®)
- \$400,000+ in research awarded annually
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- Participate in the POSNA-sponsored Traveling Fellowship Program
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- POSNA.org Study Guide – over 100 topics available!
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- POSNAcademy – POSNA's video education platform featuring webinars, tutorials, past meeting content, podcasts, and more!
- The Resident Review blog

Accreditation

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Academy of Orthopaedic Surgeons and the Pediatric Orthopaedic Society of North America. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

AMA Credit Designation

The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of 22 **AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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(407) 351-8500

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8972 Turkey Lake Road South
(407) 226-1906
8:00 AM–8:00 PM, 7 days a week

Nearest Pharmacy

Walgreens (2.3 miles)
8021 International Drive
(407) 352-7071
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SAVE THE DATE

Future POSNA Annual Meetings

April 26-28, 2023
Nashville, TN

EPOSNA (Combined POSNA and EPOS Meeting)

May 8-11, 2024
Washington, D.C.

Future IPOS® Meetings

December 5-9, 2023
Orlando, FL

December 3-7, 2024
Orlando, FL

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.



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