



17th Annual

IPOS[®]

International Pediatric Orthopaedic Symposium

Dec 07– 11, 2021 • Orlando, FL

Todd Milbrandt, MD
Co-Director

Suken Shah, MD
Co-Director



POSNA
PEDIATRIC ORTHOPAEDIC SOCIETY
OF NORTH AMERICA



Amazing things happen
when you focus on what
can't be seen.

At Nemours Children's, we're on a journey to discover better ways of approaching children's health. Because by focusing on the unseen, we believe that we can discover what nobody else has. Where others may concentrate just on treatments and cures, we look at that and so much more. Keeping healthy children healthy, while improving life for those who aren't. Working hand in hand with community leaders, educators and policymakers to make every child's world a place for them to thrive.

Nemours/Alfred I. duPont Hospital for Children is now Nemours Children's Health



Orthopedics

Well Beyond Medicine

Go well beyond at [Nemours.org/Beyond](https://www.Nemours.org/Beyond)

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The Pediatric Orthopaedic Society of North America gratefully acknowledges the following for their generous financial support in 2021.

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*Provided an Educational Grant for IPOS®



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About POSNA

The Pediatric Orthopaedic Society of North America (POSNA) is a group of professionals comprised mostly of pediatric orthopaedic surgeons. We are board certified in orthopaedic surgery and have participated in additional training to become specialized in the care of children's musculoskeletal health and our practice reflects this dedication. We, as a group, strive to become the authoritative source on such care through appropriate research that will lead to the best evidence-based patient care.

IPOS® Mission Statement: To provide the highest quality, most comprehensive, and most interactive pediatric orthopaedic education to learners and practitioners of all levels.

IPOS® Vision Statement: Through our inspiring international faculty, innovative programming, and vibrant interactions among all attendees, IPOS® aspires to be the best pediatric orthopaedic educational event in the world.

Learning Objectives

- Learn about the latest advances in pediatric orthopaedic surgery.
- Obtain opinions of world-renowned thought leaders in the field.
- Use the information obtained to make improvements in your own practices.



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

This activity has been approved for **22.5 AMA PRA Category 1 Credits™**.

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.



POSNA Membership Requirement

Attendance fulfills your POSNA Active membership requirements. IPOS® attendance does not fulfill the requirement for Candidate Members.

Language

English will be the official language of IPOS®.

Event Cancellation

Due to circumstances beyond our control, the Pediatric Orthopaedic Society of North America may elect to cancel IPOS® 2021. 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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Some drugs or medical devices demonstrated at IPOS® may not have been cleared by the FDA or have been cleared by the FDA for specific purposes only. The FDA has stated that it is the responsibility of the physician to determine the FDA clearance status of each drug or medical device he or she wishes to use in clinical practice.

Academy policy provides that "off label" uses of a drug or medical device may be described in the Academy's CME activities so long as the "off label" use of the drug or medical device is also specifically disclosed (i.e., it must be disclosed that the FDA has not cleared the drug or device for the described purpose). Any drug or medical device is being used "off label" if the described use is not set forth on the product's approval label.

Disclosure

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

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Police, ambulance, fire: 911
Non-Emergency: Loews Security - *111
Loews Security-Ext: *111 or
(407) 503-9124 from a Non-Hotel Phone
Poison Control: (800) 222-1222 (Nationwide)
*Loews Security Personnel is trained in
First Aid, CPR / AED

Medical Emergency

Nearest Hospital

Dr. Phillips Hospital (3.8 miles)
9401 Turkey Lake Road
(407) 351-8500

Urgent Care

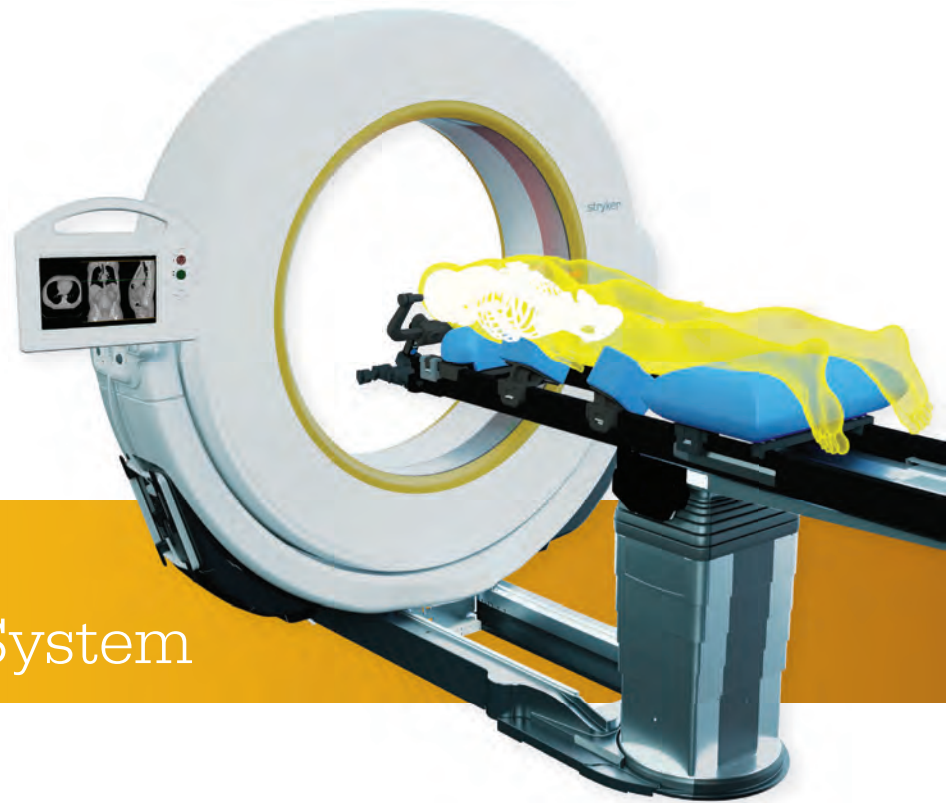
Paramount Urgent Care (2.3 miles)
8972 Turkey Lake Road South
(407) 226-1906
Open: 8:00 AM - 8:00 PM, 7 days a week

Nearest Pharmacy

Walgreens (2.3 miles)
8021 International Drive
(407) 352-7071
Monday-Friday: 8:00 AM - 8:00 PM
Saturday: 9:00 AM - 6:00 PM
Sunday: 9:00 AM - 6:00 PM



A great plan
starts with
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Airo[®] TruCT[®]
Mobile CT Imaging System

Please join us for our Spotlight Session at IPOS

Navigating the pediatric spine:
Optimizing safety and workflow efficiency

Thursday, December 9, 2021 | 8:00 - 9:10 a.m. EST | Room: Coral Sea



Brad Culotta, MD
Baton Rouge Orthopaedic Clinic
Baton Rouge, LA



Stephen G. George, MD
Nicklaus Children's Hospital
Miami, FL

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stryker.com/airo

No Smoking Policy

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Disclosure of Personal Information

When registering for IPOS® 2021, your personal identifying information is retained by POSNA. You understand and agree that POSNA may disclose your name, address, and contact information to the hotel and other service providers in order to confirm your hotel room.

Disclaimer

The material presented at IPOS® 2021 has been made available by the Pediatric Orthopaedic Society of North America for educational purposes only. The material is not intended to represent the only, nor necessarily best, method or procedure appropriate for the medical situations discussed, but rather is intended to present an approach, view, statement or opinion of the faculty which may be helpful to others who face similar situations.

POSNA disclaims all liability for injury or other damages resulting to any individual attending IPOS® 2021 and for all claims which may arise out of the use of the techniques demonstrated therein by such individuals, whether these claims shall be asserted by physician or any other person.

Insurance / Liabilities

POSNA will not be held liable for personal injuries or for loss or damage to property incurred by participants or guests at IPOS® 2021, including those participating in social events. Participants and guests are encouraged to take out insurance to cover losses incurred in the event of cancellation, medical expenses or damage to or loss of personal effects when traveling outside their own country.

POSNA cannot be held liable for any hindrance or disruption of IPOS® 2021 arising from natural, political, social or economic events or other unforeseen incidents beyond its control. Registration of a participant implies acceptance of this condition.










Tuesday, December 7


Registration	3:00 PM - 7:00 PM
Resident Scholarship Recipient Case Presentations	Oceana Grand 6-7 4:00 PM - 5:20 PM
Career Planning and Professional Development for Residents and Fellows	Oceana Grand 6-7 5:20 PM - 6:30 PM
Pre-Course Network Reception	Oceana Foyer 6:30 PM - 6:45 PM
Industry Sponsored Pre-Course Sponsored by Orthopediatrics	Oceana Grand 1-2 6:45 PM - 8:00 PM
Industry Sponsored Pre-Course Sponsored by Zimmer Biomet	Oceana Grand 3-5 6:45 PM - 8:00 PM
Industry Sponsored Cocktail Reception	Oceana Grand 8-10 8:00 PM - 9:00 PM

Concurrent Session 1 - Young Children with Scoliosis - Modern Techniques for Controlling the Curve 	Oceana Grand 6-7 1:00 PM - 3:00 PM
Break & Exhibits	3:00 PM - 3:20 PM
Industry Spotlight Session 1: Arthrex Inc.	Coral Sea 3:20 PM - 4:30 PM
Industry Spotlight Session 1: DePuy Synthes	Timor Sea 3:20 PM - 4:30 PM
Industry Spotlight Session 1: NuVasive	Banda Sea 3:20 PM - 4:30 PM
Industry Spotlight Session 1: Orthofix	Pacifica 8-10 3:20 PM - 4:30 PM
Industry Spotlight Session 1: OrthoPediatrics	Java Sea 3:20 PM - 4:30 PM
Industry Spotlight Session 2: Arthrex Inc	Coral Sea 4:40 PM - 5:50 PM
Industry Spotlight Session 2: DePuy Synthes	Timor Sea 4:40 PM - 5:50 PM
Industry Spotlight Session 2: Medtronic	Pacifica 11-12 4:40 PM - 5:50 PM
Industry Spotlight Session 2: Orthofix	Pacifica 8-10 4:40 PM - 5:50 PM
Industry Spotlight Session 2: OrthoPediatrics	Java Sea 4:40 PM - 5:50 PM
Course Directors' Welcome Reception Sponsored by Medtronic	Pacifica 6-7 6:00 PM - 7:00 PM

Wednesday, December 8








Registration	7:00 AM - 5:00 PM
Breakfast & Exhibits	7:00 AM - 8:00 AM
General Session 1 - The Four Questions of Trauma: It's All About the Periosteum 	Oceana Grand 6-7 8:00 AM - 10:00 AM
Break & Exhibits	10:10 AM - 10:30 AM
CME Breakout 1 - Essentials of Pediatric Orthopaedics I 	Pacifica 11-12 10:30 AM - 12:00 PM
CME Breakout 1 - Gait 1: CP - Understanding Gait Analysis and Common Gait Pathologies (Flipped Classroom) 	Java Sea 10:30 AM - 12:00 PM
CME Breakout 1 - Unlocking the Secrets of Managing Perthes Disease 	Pacifica 1-3 10:30 AM - 12:00 PM
CME Breakout 1 - Paths to Wild Success in Pediatric Orthopaedics 	Oceana Grand 3-5 10:30 AM - 12:00 PM
CME Breakout 1 - A Case-Based Exploration of the Management of Blount's Disease (Flipped Classroom) 	Pacifica 8-10 10:30 AM - 12:00 PM
CME Breakout 1 - POPS: Orthopaedic Pearls - Empowering the APP for Success 	Hibiscus 10:30 AM - 12:00 PM
Lunch with IPOS® Directors	IPOS Lounge 12:00 PM - 1:00 PM
Lunch & Exhibits	12:00 PM - 1:00 PM
Ponseti On The Go Sponsored by: MD Orthopaedics	Philippine Sea 1:00 PM - 2:00 PM
Concurrent Session 1 - From Head to Toes - A Case-Based Discussion of Skeletal Dysplasia 	Pacifica 1-3 1:00 PM - 3:00 PM

Thursday, December 9

Registration	7:00 AM - 4:00 PM
Breakfast & Exhibits	7:00 AM - 8:00 AM
Industry Spotlight Session 3: DePuy Synthes Spine	Pacifica 8-10 8:00 AM - 9:10 AM
Industry Spotlight Session 3: OrthoPediatrics	Java Sea 8:00 AM - 9:10 AM
Industry Spotlight Session 3: Pacira BioSciences, Inc.	Timor Sea 8:00 AM - 9:10 AM
Industry Spotlight Session 3: Stryker	Coral Sea 8:00 AM - 9:10 AM
Break & Exhibits	9:10 AM - 9:30 AM
General Session 2 - Improving Care through Quality Assessment 	Oceana Grand 6-7 9:30 AM - 11:30 AM
Lunch & Exhibits	11:30 AM - 12:30 PM
Lunchtime Learning (Non-CME)	12:00 PM - 12:30 PM

CME Breakout 2 - Essentials of Pediatric Orthopaedics II	 Pacifica 11-12 12:30 PM - 2:00 PM	Industry Spotlight Session 4: DePuy Synthes Spine	Pacifica 8-10 10:20 AM - 11:30 AM
CME Breakout 2 - Emerging Technologies in Scoliosis Surgery	 Coral Sea 12:30 PM - 2:00 PM	Industry Spotlight Session 4: I Globus Medical	Coral Sea 10:20 AM - 11:30 AM
CME Breakout 2 - Growth Modulation: Where Are We in 2021?	 Pacifica 8-10 12:30 PM - 2:00 PM	Industry Spotlight Session 4: OrthoPediatrics	Java Sea 10:20 AM - 11:30 AM
CME Breakout 2 - Pelvic Osteotomy I: Salter, Dega, Pemberton (Hands-On Workshop)	 Timor Sea 12:30 PM - 2:00 PM	Industry Spotlight Session 4: Pega Medical	Timor Sea 10:20 AM - 11:30 AM
CME Breakout 2 - Ponseti I (Hands-On Workshop)	 Banda Sea 12:30 PM - 2:00 PM	Lunch & Exhibits	11:30 AM - 12:30 PM
CME Breakout 2 - Common Lessons Learned from Osteogenesis Imperfecta and Skeletal Dysplasia Patient	 Pacifica 1-3 12:30 PM - 2:00 PM	Lunchtime Learning (Non-CME)	12:00 PM - 12:30 PM
CME Breakout 2 - POPS: Orthopaedic Implications of Obesity to Overuse	 Hibiscus 12:30 PM - 2:00 PM	General Session 3: Authors' Preferred Techniques	 Oceana Grand 6-7 12:30 PM - 2:30 PM
Break & Exhibits	2:00 PM - 2:20 PM	Break & Exhibits	2:40 PM - 3:00 PM
Ponseti On The Go Sponsored by: MD Orthopaedics	 Philippine Sea 2:00 PM - 3:00 PM	CME Breakout 3 - Essentials of Pediatric Orthopaedics III	 Pacifica 11-12 3:00 PM - 4:30 PM
Concurrent Session 2 - Current Controversies in Pediatric ACL and Elbow Injuries in the Teen Athlete	 Oceana Grand 6-7 2:20 PM - 4:20 PM	CME Breakout 3 - Managing Tibia Bowing in Children	 Coral Sea 3:00 PM - 4:30 PM
Concurrent Session 2 - Hand & Upper Extremity: Best Tools in the Toolbox	 Pacifica 1-3 2:20 PM - 4:20 PM	CME Breakout 3 - Hand & Upper Extremity Flipped Classroom on Congenital Conditions	 Pacifica 8-10 3:00 PM - 4:30 PM
Top Gun Surgical Skills Competition (by invitation only) (Non-CME)	5:00 PM - 7:30 PM	CME Breakout 3 - Pelvic Osteotomy II: Triple Innominate Osteotomy and Pao (Hands-On Workshop)	 Timor Sea 3:00 PM - 4:30 PM
Friday, December 10		CME Breakout 3 - Ponseti I (Hands-On Workshop)	 Banda Sea 3:00 PM - 4:30 PM
Registration	7:00 AM - 3:00 PM	CME Breakout 3 - NOT the ACL - Meniscus Injuries & Other Common Knee Pain Diagnoses in the Teen Athlete	 Pacifica 1-3 3:00 PM - 4:30 PM
Breakfast & Exhibits	7:00 AM - 8:00 AM	CME Breakout 3 - POPS: The Orthopaedic Escape Room (Hands-On and Team Building)	 Hibiscus 3:00 PM - 4:30 PM
Concurrent Session 3 - Cerebral Palsy Hip and Spine: Challenges in Concomitant Management for the Non-Ambulant Child	 Oceana Grand 6-7 8:00 AM - 10:00 AM	Schedule continued on next page	
Concurrent Session 3 - The Pediatric Orthopaedic Educators Symposium: The Journey from Curriculum Design to Feedback-For our Learners and Ourselves	 Pacifica 1-3 8:00 AM - 10:00 AM		
Ponseti On The Go Sponsored by: MD Orthopaedics	 Philippine Sea 9:00 AM - 10:00 AM		
Break & Exhibits	10:00 AM - 10:20 AM		

Saturday, December 11

Registration	7:30 AM - 10:30 AM
Breakfast	7:00 AM - 8:00 AM
Concurrent Session 4 - Complex Complicated Crazy Clubfoot and Adolescent Foot: When You Fuse, When to Transfer	 Pacifica 1-3 8:00 AM - 10:00 AM
Concurrent Session 4 - The World of Adolescent Hip: Beyond FAI and Dysplasia	 Oceana Grand 6-7 8:00 AM - 10:00 AM
Fellowship Education Forum (TICKETED EVENT)	Pacifica 8-10 8:00 AM - 11:45 AM
Break	10:00 AM - 10:15 AM
CME Breakout 4 - Essentials of Pediatric Orthopaedics IV	 Pacifica 11-12 10:15 AM - 11:45 AM
CME Breakout 4 - Gait 2: CP Current Concepts: Surgical Dosing According to Gait Pathology (Flipped Classroom)	 Java Sea 10:15 AM - 11:45 AM
CME Breakout 4 - Tackling the Most Challenging Neuromuscular Scoliosis in Your Clinic and Operating Room	 Coral Sea 10:15 AM - 11:45 AM
CME Breakout 4 - Ponseti II Complex Clubfoot	 Banda Sea 10:15 AM - 11:45 AM
CME Breakout 4 - Achieving Wellness Means Changing Healthcare	 Timor Sea 10:15 AM - 11:45 AM
Lunch	11:45 AM - 12:30 PM

*SCHEDULE SUBJECT TO CHANGE

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



Industry Spotlight Session #1

Wednesday, December 8
3:20 PM - 4:30 PM

Arthrex, Inc. - Coral Sea

Surgical Interventions for the Adolescent Knee

Presenters: Kevin Shea, MD; Theodore Ganley, MD; Eric Edmonds, MD

DePuy Synthes - Timor Sea

Pitfalls and Pearls for Proximal Femoral Osteotomies

Presenters: Ernest Sink, MD

NuVasive - Banda Sea

From Idiopathic to Complex: Tips and tricks to achieve better three-dimensional correction

Presenters: Robert Cho, MD; Lindsay Andras, MD

Orthofix - Pacifica 8-10

Computer-Assisted Pre-Operative Planning, Tips and Tricks

Presenters: David Podeszwa, MD; David Frumberg, MD; Philip McClure, MD

OrthoPediatrics - Java Sea

Challenges, Decision-Making, and Solutions in Treating Neuromuscular Scoliosis

Presenters: Scott Luhmann, MD; Chris Hardesty, MD

Industry Spotlight Session #3

Thursday, December 9
8:00 AM - 9:10 AM

DePuy Synthes Spine - Pacifica 8-10

Neuromuscular Scoliosis: Principles of Management and Complication Prevention

Presenters: Paul Sponseller, MD; Jeffrey Sawyer, MD; Robert Cho, MD

OrthoPediatrics - Java Sea

Adolescent Femoral Nailing: From Common to Uncommon Uses

Presenters: Eric Gordon, MD; Scott Rosenfeld, MD; Sean Tabaie, MD

Pacira BioSciences, Inc. - Timor Sea

Postsurgical Pain Management in Children-Achieving Opioid Minimization

Presenters: Peter Newton, MD

Stryker - Coral Sea

Navigating the Pediatric Spine: Optimizing Safety and Workflow Efficiency

Presenters: Brad Culotta, MD; Stephen George, MD

Industry Spotlight Session #2

Wednesday, December 8
4:40 PM - 5:50 PM

Arthrex, Inc. - Coral Sea

Managing Pediatric ACL Ruptures

Presenters: Kevin Shea, MD; Theodore Ganley, MD; Eric Edmonds, MD

DePuy Synthes - Timor Sea

Pediatric Femur Fracture Management

Presenters: Martin Herman, MD, PhD; Walter Samora, MD

Medtronic - Pacifica 11-12

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

Presenters: Grant Hogue, MD; Mark Erickson, MD; Noelle Larson, MD

Orthofix - Pacifica 8-10

Limb Lengthening with Fitbone - Experience with Adolescent Patients

Presenters: David Frumberg, MD; David Podeszwa, MD; Jan Rölfing, MD

OrthoPediatrics - Java Sea

A Non-Fusion Treatment for AIS: Clinical Experience and Hands-on Demonstration

Presenters: Tim Oswald, MD; Kevin Neal, MD

Industry Spotlight Session #4

Friday, December 10
10:20 AM - 11:30 AM

DePuy Synthes Spine - Pacifica 8-10

Treatment of AIS: Beyond the Basics

Presenter: Robert Cho, MD; John M. Flynn, MD; Noelle Larson, MD; Paul Sponseller, MD

Globus Medical - Coral Sea

Current Indications and Practical Tips for the Treatment of Anterior Scoliosis

Presenters: Peter Newton, MD

OrthoPediatrics - Java Sea

Blount's Disease: From Early to Late Stage and Modern Treatment Techniques

Presenters: Kellie Leitch, MD; Craig Robbins, MD; Sean Tabaie, MD

Pega Medical - Timor Sea

Proximal Femoral Osteotomies using a Novel Modular Blade - Plate

Presenters: Kishore Mulpuri, MBBS, MHSc, FRCSC; Shawn Standard, MD



Essentials of Pediatric Orthopaedics

CME Breakout: Essentials of Pediatric Orthopaedics I

Wednesday, 12/8, 10:30 AM - 12:00 PM

CME Breakout: Essentials of Pediatric Orthopaedics II

Thursday, 12/9, 12:30 PM - 2:00 PM

CME Breakout: Essentials of Pediatric Orthopaedics III

Friday, 12/10, 3:00 PM - 4:30 PM

CME Breakout: Essentials of Pediatric Orthopaedics IV

Saturday, 12/11, 10:15 AM - 11:45 AM



Foot

Ponseti on the Go

Wednesday, 12/8, 1:00 PM - 2:00 PM

CME Breakout: Ponseti I (Hands-On Workshop)

Thursday, 12/9, 12:30 PM - 2:00 PM

Ponseti on the Go

Thursday, 12/9, 2:00 PM - 3:00 PM

Ponseti on the Go

Friday, 12/10, 9:00 AM - 10:00 AM

CME Breakout: Ponseti I (Hands-On Workshop)

Friday, 12/10, 3:00 PM - 4:30 PM

Concurrent Session: Complex Complicated Crazy Clubfoot and Adolescent Foot: When You Fuse, When to Transfer

Saturday, 12/11, 8:00 AM - 10:00 AM

CME Breakout: Ponseti II Complex Clubfoot

Saturday, 12/11, 10:15 AM - 11:45 AM



General Pediatric Orthopaedics/Trauma

General Session 1: The Four Questions of Trauma: It's All About the Periosteum

Wednesday, 12/8, 8:00 AM - 10:00 AM

General Session 2: Improving Care through Quality Assessment

Thursday, 12/9, 9:30 AM - 11:30 AM

General Session 3: Author's Preferred Techniques

Friday, 12/10, 12:30 PM - 2:30 PM

CME Breakout: Paths to Wild Success in Pediatric Orthopaedics

Wednesday, 12/8, 10:30 AM - 12:00 PM

Concurrent Session: The Pediatric Orthopaedic Educators Symposium: The Journey from Curriculum Design to Feedback-For our Learners and Ourselves

Friday, 12/10, 8:00 AM - 10:00 AM

CME Breakout: Achieving Wellness Means Changing Healthcare

Saturday, 12/11, 10:15 AM - 11:45 AM



Ponseti on the Go

Sponsored by: MD Orthopaedics

New!

Faculty will offer individual instruction and hands-on practice with Ponseti casting for the infant clubfoot. Leading experts in the Ponseti Method will be available for three labs during the week to answer questions, provide tips and tricks, and guide your hands through casting practice on infant clubfoot models. Registration not required. Just stop in and learn on your way to and from other sessions.



Stop by Philippine Sea to learn more

Wednesday, December 8: 1:00 PM – 2:00 PM

Thursday, December 9: 2:00 PM – 3:00 PM

Friday, December 10: 9:00 AM – 10:00 AM

**Hand & Upper Extremity****Concurrent Session: Hand & Upper Extremity - Best Tools in the Toolbox**

Thursday, 12/9, 2:20 PM - 4:20 PM

CME Breakout: Hand & Upper Extremity Flipped Classroom on Congenital Conditions

Friday, 12/10, 3:00 PM - 4:30 PM

**Hip****CME Breakout: Unlocking the Secrets of Managing Perthes Disease**

Wednesday, 12/8, 10:30 AM - 12:00 PM

CME Breakout: Pelvic Osteotomy I - Salter, Dega, Pemberton (Hands-On Workshop)

Thursday, 12/9, 12:30 PM - 2:00 PM

CME Breakout: Pelvic Osteotomy II: Triple Innominate Osteotomy and Pao (Hands-On Workshop)

Friday, 12/10, 3:00 PM - 4:30 PM

Concurrent Session: The World of Adolescent Hip: Beyond FAI and Dysplasia

Saturday, 12/11, 8:00 AM - 10:00 AM

**Lower Extremity/Deformity****CME Breakout: A Case-Based Exploration of the Management of Blount's Disease (Flipped Classroom)**

Wednesday, 12/8, 10:30 AM - 12:00 PM

CME Breakout: Growth Modulation: Where Are We in 2021?

Thursday, 12/9, 12:30 PM - 2:00 PM

CME Breakout: Managing Tibia Bowing in Children

Friday, 12/10, 3:00 PM - 4:30 PM

**Neuromuscular & Cerebral Palsy****CME Breakout: Gait 1: CP - Understanding Gait Analysis and Common Gait Pathologies (Flipped Classroom)**

Wednesday, 12/8, 10:30 AM - 12:00 PM

Concurrent Session: CP, Hip, and Spine: Challenges in Concomitant Management for the Non-Ambulant Child

Friday, 12/10, 8:00 AM - 10:00 AM

CME Breakout: Gait 2: Cerebral Palsy Current Concepts: Surgical Dosing According to Gait Pathology (Flipped Classroom)

Saturday, 12/11, 10:15 AM - 11:45 AM

POPS**POPS****CME Breakout: Orthopaedic Pearls - Empowering the APP for Success**

Wednesday, 12/8, 10:30 AM - 12:00 PM

CME Breakout: Orthopaedic Implications of Obesity to Overuse

Thursday, 12/9, 12:30 PM - 2:00 PM

CME Breakout: The Orthopaedic Escape Room

Friday, 12/10, 3:00 PM - 4:30 PM

**Spine****Concurrent Session: Young Children with Scoliosis - Modern Techniques for Controlling the Curve**

Wednesday, 12/8, 1:00 PM - 3:00 PM

CME Breakout: Emerging Technologies in Scoliosis Surgery

Thursday, 12/9, 12:30 PM - 2:00 PM

CME Breakout: Tackling the Most Challenging Neuromuscular Scoliosis in Your Clinic and Operating Room

Saturday, 12/11, 10:15 AM - 11:45 AM

**Sports****Concurrent Session: Current Controversies in Pediatric ACL and Elbow Injuries in the Teen Athlete**

Thursday, 12/9, 2:20 PM - 4:20 PM

CME Breakout: NOT the ACL - Meniscus Injuries and Other Common Knee Pain Diagnoses in the Teen

Friday, 12/10, 3:00 PM - 4:30 PM

**Syndromes, Dysplasias, & Genetic Conditions****Concurrent Session: From Head to Toes - A Case-Based Discussion of Skeletal Dysplasia**

Wednesday, 12/8, 1:00 PM - 3:00 PM

CME Breakout: Common Lessons Learned from Osteogenesis Imperfecta and Skeletal Dysplasia Patients

Thursday, 12/9, 12:30 PM - 2:00 PM

Residents Postgraduate Years 1 – 4

CME Breakout: Essentials of Pediatric Orthopaedics I

Wednesday, 12/8, 10:30 AM - 12:00 PM

CME Breakout: Essentials of Pediatric Orthopaedics II

Thursday, 12/9, 12:30 PM - 2:00 PM

CME Breakout: Essentials of Pediatric Orthopaedics III

Friday, 12/10, 3:00 PM - 4:30 PM

CME Breakout: Essentials of Pediatric Orthopaedics IV

Saturday, 12/11, 10:15 AM - 11:45 AM

Postgraduate Years 4 – 5 and Fellows

CME Breakout: Paths to Wild Success in Pediatric Orthopaedics

Wednesday, 12/8, 10:30 AM - 12:00 PM

CME Breakout: A Case - Based Exploration of the Management of Blount's Disease (Flipped Classroom)

Wednesday, 12/8, 10:30 AM - 12:00 PM

CME Breakout: Gait 1: CP - Understanding Gait Analysis and Common Gait Pathologies (Flipped Classroom)

Wednesday, 12/8, 10:30 AM - 12:00 PM

Concurrent Session: Young Children with Scoliosis - Modern Techniques for Controlling the Curve

Wednesday, 12/8, 1:00 PM - 3:00 PM

CME Breakout: Emerging Technologies in Scoliosis Surgery

Thursday, 12/9, 12:30 PM - 2:00 PM

CME Breakout: Common Lessons Learned from Osteogenesis Imperfecta and Skeletal Dysplasia Patients

Thursday, 12/9, 12:30 PM - 2:00 PM

Concurrent Session: Hand & Upper Extremity - Best Tools in the Toolbox

Thursday, 12/9, 2:20 PM - 4:20 PM

Concurrent Session: The Pediatric Orthopaedic Educators Symposium: The Journey from Curriculum Design to Feedback - For our Learners and Ourselves

Friday, 12/10, 8:00 AM - 10:00 AM

Concurrent Session: Complex Complicated Crazy Clubfoot and Adolescent Foot: When You Fuse, When to Transfer

Saturday, 12/11, 8:00 AM - 10:00 AM

CME Breakout: Pelvic Osteotomy II: Triple Innominate Osteotomy and Pao (Hands - On Workshop)

Friday, 12/10, 3:00 PM - 4:30 PM

CME Breakout: Hand & Upper Extremity Flipped Classroom on Congenital Conditions

Friday, 12/10, 3:00 PM - 4:30 PM

CME Breakout: Ponseti II Complex Clubfoot

Saturday, 12/11, 10:15 AM - 11:45 AM

CME Breakout: Tackling the Most Challenging Neuromuscular Scoliosis in Your Clinic and Operating Room

Saturday, 12/11, 10:15 AM - 11:45 AM

CME Breakout: Gait 2: Cerebral Palsy Current Concepts: Surgical Dosing According to Gait Pathology (Flipped Classroom)

Saturday, 12/11, 10:15 AM - 11:45 AM

Residents Postgraduate Years 1 – 5 and Fellows

General Session 1: The Four Questions of Trauma: It's All About the Periosteum

Wednesday, 12/8, 8:00 AM - 10:00 AM

CME Breakout: Unlocking the Secrets of Managing Perthes Disease

Wednesday, 12/8, 10:30 AM - 12:00 PM

Concurrent Session: From Head to Toes - A Case-Based Discussion of Skeletal Dysplasia

Wednesday, 12/8, 1:00 PM - 3:00 PM

Ponseti on the Go

Wednesday, 12/8, 1:00 PM - 2:00 PM

General Session 2: Improving Care through Quality Assessment

Thursday, 12/9, 9:30 AM - 11:30 AM

CME Breakout: Growth Modulation: Where Are We in 2021?

Thursday, 12/9, 12:30 PM - 2:00 PM

CME Breakout: Pelvic Osteotomy I - Salter, Dega, Pemberton (Hands-On Workshop)

Thursday, 12/9, 12:30 PM - 2:00 PM

CME Breakout: Ponseti I (Hands-On Workshop)

Thursday, 12/9, 12:30 PM - 2:00 PM

Ponseti on the Go

Thursday, 12/9, 2:00 PM - 3:00 PM

Concurrent Session: Current Controversies in Pediatric ACL and Elbow Injuries in the Teen Athlete

Thursday, 12/9, 2:20 PM - 4:20 PM

Concurrent Session: CP, Hip, and Spine: Challenges in Concomitant Management for the Non-Ambulant Child

Friday, 12/10, 8:00 AM - 10:00 AM

Ponseti on the Go

Friday, 12/10, 9:00 AM - 10:00 AM

General Session 3: Author's Preferred Techniques

Friday, 12/10, 12:30 PM - 2:30 PM

CME Breakout: NOT the ACL - Meniscus Injuries and Other Common Knee Pain Diagnoses in the Teen

Friday, 12/10, 3:00 PM - 4:30 PM

CME Breakout: Ponseti I (Hands-On Workshop)

Friday, 12/10, 3:00 PM - 4:30 PM

CME Breakout: Managing Tibia Bowing in Children

Friday, 12/10, 3:00 PM - 4:30 PM

Concurrent Session: The World of Adolescent Hip: Beyond FAI and Dysplasia

Saturday, 12/11, 8:00 AM - 10:00 AM

CME Breakout: Achieving Wellness Means Changing Healthcare

Saturday, 12/11, 10:15 AM - 11:45 AM

Lunchtime Career Development

On Thursday and Friday, from 12:00PM to 12:30PM, in the IPOS® lounge, meet with IPOS® course directors and faculty to review the day's educational events, share interesting clinical cases, and discuss professional development. Attendees are encouraged to submit ideas and cases in advance to discuss with IPOS® faculty.

More information will be posted on the IPOS® website



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- Flipped Classroom with small group discussions of cases
- Educators Session on how to teach and learn Pediatric Orthopaedic Surgery



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- **Resident Case Competition** – Case presentations and quiz questions! Hear faculty discussions and put your knowledge to the test!
- **Top Gun Surgical Skills Competition** – 9th annual contest- your chance to showcase your maverick skill set (by invitation only).
- **Mentoring Sessions** – residents and fellows are matched with faculty members for a breakfast—a unique one-on-one opportunity with leaders in the field to ask questions and seek professional guidance.

IPOS® Lounge

Located in the Exhibit Hall, the IPOS® Lounge is a place to recharge, relax, and network with others. Come to the lounge to view ePosters, participate in Lunchtime Career Development, or chat with the IPOS® directors during one of the scheduled breaks.



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and Sports Medicine Center



Stanford Excellence By the Numbers

- **2** IPOS 2021 faculty: Steven Frick, MD, and Kevin Shea, MD (also a member of the advisory board)
- **70** retrospective and prospective active trials
- **25** peer-reviewed publications in 2021
- **8** national and regional presentations
- **30,000** outpatient visits a year
- **1,500** surgeries a year
- **14** pediatric orthopedic surgeons and sports medicine specialists



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Stanford | MEDICINE

Registration

Sponsored by: Zimmer Biomet

Tuesday, December 7	3:00 PM – 7:00 PM
Wednesday, December 8	7:00 AM – 5:00 PM
Thursday, December 9	7:00 AM – 4:00 PM
Friday, December 10	7:00 AM – 3:00 PM
Saturday, December 11	7:30 AM – 10:30 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 8	7:00 AM – 7:00 PM
Thursday, December 9	7:00 AM – 4:30 PM
Friday, December 10	7:00 AM – 3:00 PM

Speaker Ready Room

All IPOS® faculty are required to upload their presentations prior to their session. Speaker Ready Room will be in South China Sea.

Tuesday, December 7	3:00 PM – 8:00 PM
Wednesday, December 8	7:00 AM – 6:00 PM
Thursday, December 9	7:00 AM – 4:30 PM
Friday, December 10	7:00 AM – 4:30 PM
Saturday, December 11	7:00 AM – 11:45 AM

WiFi Information:

IPOS® Conference WiFi: **IPOS2021**

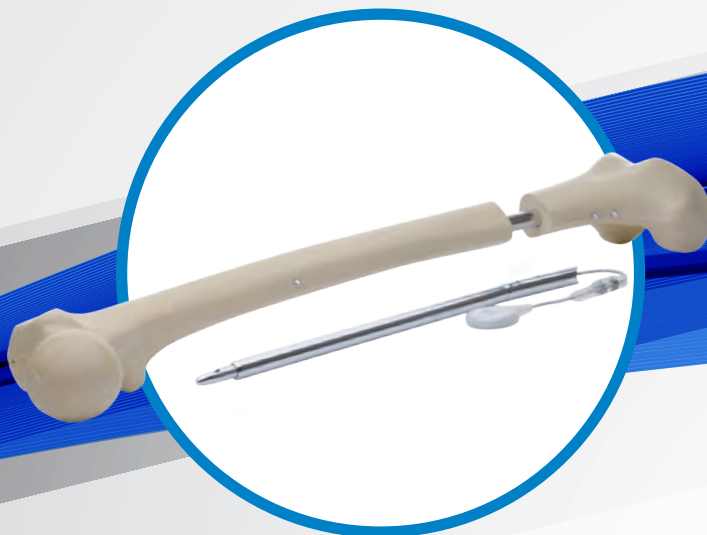
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and join our Industrial Symposia
on December 8 at 3:20pm
and 4:40pm

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Tuesday, December 7, 2021

3:00 PM - 7:00 PM	Registration
4:00 PM - 5:20 PM	Resident Scholarship Recipient Case Presentations
5:20 PM - 6:30 PM	
Career Planning and Professional Development for Residents and Fellows	
5:20 PM – 5:55 PM	<p>Habits for a Successful Pediatric Orthopaedic Career</p> <p>Introduction and Welcome <i>Moderator: Michelle Caird, MD</i></p> <p>How Do I Keep Getting Better as a Surgeon? <i>Presenter: Kevin Shea, MD</i></p> <p>How Do I Teach in The Operating Room and Clinics? <i>Presenter: Craig Ebersson, MD</i></p> <p>How Can I Contribute to Discovery in Pediatric Orthopaedics? <i>Presenter: Jonathan Schoenecker, MD, PhD</i></p> <p>How Do I Grow in Leadership Skills? <i>Presenter: Jeff Sawyer, MD</i></p> <p>How To Get Involved in National Societies at the Beginning of my Career? <i>Presenter: Julie Samora, MD, PhD</i></p> <p>How Can I Help Create a More Broad and Inclusive Specialty? <i>Presenter: Christine Ho, MD</i></p>
5:55 PM – 6:00 PM	Break
6:00 PM – 6:30 PM	Questions and Answers
6:30 PM - 6:45 PM	Pre-Course Networking Reception

6:45 PM - 8:00 PM

Pre-Course Sponsored by OrthoPediatrics

How To Become the Surgeon You Want to Be – And How to Tell If You're Not

Faculty: James McCarthy, MD; Henry Ellis, MD; Scott Hoffinger, MD

While learning medicine and the function of the developing musculo-skeletal system, pediatric orthopaedic surgeons must also learn the art of surgery itself. Blaisier (2009) writes that surgical skill does not peak until the latter half of the 5th decade even as formal training and mentorship in surgery ends at the end of fellowship. How does a surgeon continue to develop and refine their skills? This course is a first look at helping surgeons track their own surgical skills, identify if they are having challenges, and begins to look at resources and where to turn. In short, we all know the surgeon we wish to become, we know that surgeon, we've worked with them. But how do we get there?

This short course will explore the habits of highly successful surgeons, and by contrast those habits that add time, waste, and radiation exposure without adding to positive outcomes for our patients. Using three common procedures we will explore general themes and habits to develop, along with specific pointers for those procedures that can benefit you and your patients. Participants should leave with the knowledge of metrics to track, behaviors to emulate, and practices to employ.

6:45 PM - 8:00 PM

Pre-Course Sponsored by Zimmer Biomet

Vertebral Body Tethering – Tether™ Updates & Innovation

Faculty: Firoz Miyanji, MD

This course will highlight the introduction of new instrumentation (July 2021) and training modalities available to surgeons. Attendees will engage in a hands-on training with instrumentation and test their VBT skills in a virtual reality (VR) setting provided through Oculus. The Tether VR module (PrecisionOS) was awarded a 2021 Spine Tech Award for its' innovative approach to surgeon training.

8:00 PM - 9:00 PM Industry Sponsored Cocktail Reception

Wednesday, December 8, 2021

7:00 AM - 5:00 PM Registration

7:00 AM - 8:00 PM Breakfast and Exhibits

General Session I

8:00 AM - 10:00 AM



The Four Questions of Trauma: It's All About the Periosteum

Dynamic Learning Session - with Gamification and performance feedback. Chunking Key Concepts of Pediatric Trauma with based on the four principal questions of where 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.

**Moderators: Jonathan Schoenecker, MD, PhD
Nicholas Fletcher, MD**

8:00 AM - 8:01 AM Introduction to the Course
Moderators:
Jonathan Schoenecker, MD, PhD
Nicholas Fletcher, MD
Tech Moderator: Bryan Tompkins, MD

8:02 AM - 8:05 AM App Introduction
Tech Moderator: Bryan Tompkins, MD

8:05 AM - 8:11 AM The Periosteum and the Four Questions Essential for Peds Trauma
Presenter:
Jonathan Schoenecker, MD, PhD

8:12 AM - 8:20 AM Wrist/Forearm Fractures
Presenter: Christine Ho, MD

8:21 AM - 8:26 AM Quiz 1: Periosteum and Wrist/Forearm Fractures
Moderators:
Nicholas Fletcher, MD
Christine Ho, MD
Tech Moderator: Bryan Tompkins, MD

8:27 AM - 8:33 AM Supracondylar Humerus Fracture 1
Presenter: Alexandre Arkader, MD

8:34 AM - 8:39 AM Supracondylar Humerus Fracture 2
Presenter:
Jonathan Schoenecker, MD, PhD

8:40 AM - 8:44 AM Quiz 2: Supracondylar Humerus Fracture Quiz
Moderators:
Jonathan Schoenecker, MD, PhD
Alexandre Arkader, MD
Tech Moderator: Bryan Tompkins, MD

8:45 AM - 8:50 AM Lateral Condyle Humerus Fractures
Presenter: Nicholas Fletcher, MD

8:51 AM - 8:55 AM Quiz 3: Elbow Fractures
Moderators:
Alexandre Arkader, MD
Nicholas Fletcher, MD
Tech Moderator: Bryan Tompkins, MD

8:56 AM - 8:59 AM Questions
Moderator: Christine Ho, MD
Panelist: Jonathan Schoenecker, MD, PhD
Nicholas Fletcher, MD
Alexandre Arkader, MD

9:00 AM - 9:03 AM Update on Scores - Through UE
Tech Moderator: Bryan Tompkins, MD

9:04 AM - 9:10 AM Ankle Fractures
Presenter: Lindsay Andras, MD

9:11 AM - 9:16 AM Knee Fractures
Presenter: Nicholas Fletcher, MD

9:17 AM - 9:23 AM Hip Fractures
Presenter:
Jonathan Schoenecker, MD, PhD

9:24 AM - 9:28 AM Quiz 4: Ankle, Knee and Hip Fractures
Moderators:
Lindsay Andras, MD
Nicholas Fletcher, MD
Tech Moderator: Bryan Tompkins, MD

9:32 AM - 9:35 AM Questions
Moderator: Lindsay Andras, MD
Panelists: Nicholas Fletcher, MD
Jonathan Schoenecker, MD, PhD

9:36 AM - 9:40 AM Updates on Score
Tech Moderator:
Bryan Tompkins, MD

9:41 AM - 9:50 AM Fracture Potpourri Quiz
Moderator: Nicholas Fletcher, MD

9:50 AM - 9:55 AM Final Scores
Moderators:
Jonathan Schoenecker, MD, PhD
Bryan Tompkins, MD

10:10 AM - 10:30 AM Breakfast and Exhibits

CME Breakout Session I

10:30 AM - 12:00 PM

Essentials of Pediatric Orthopaedics I



For learners and practitioners of all levels, join our esteemed faculty for a review of the essentials of pediatric orthopaedics

Moderator: Thomas McPartland, MD

- 10:30 AM - 10:40 AM LE Alignment and Normal Development
Presenter: Thomas McPartland, MD
- 10:41 AM - 10:55 AM LE Deformity and Length Discrepancy
Presenter: Brian Brighton, MD, MPH
- 10:56 AM - 11:10 AM Spine: AIS, EOS, Scheurman's, Lysis/Listhesis, Including Primer on Bracing
Presenter: Robert Cho, MD, FAAOS
- 11:11 AM - 11:20 AM Spine: Trauma, Including Cervical
Presenter: Laurel Blakemore, MD
- 11:21 AM - 11:25 AM Discussion
*Panelists: Thomas McPartland, MD
Brian Brighton, MD, MPH
Robert Cho, MD, FAAOS
Laurel Blakemore, MD*
- 11:26 AM - 11:35 AM Physeal Biology: Implications on Growth, Trauma, and Deformity
Presenter: Michelle Caird, MD
- 11:36 AM - 11:50 AM Hip: DDH, Perthes, SCFE, Coxa Vara
Presenter: Jose Herrera-Soto, MD
- 11:51 AM - 12:00 PM Efficiencies Gained with a Pediatric Musculoskeletal Emergency Department
Presenter: Mauricio Silva, MD

10:30 AM - 12:00 PM

Gait I: Cerebral Palsy – Understanding Gait Analysis and Common Gait Pathologies (Flipped Classroom)



A case-based session outlining normal and pathologic gait deviations: Introduction to principles

Moderator: Benjamin Shore, MD, MPH, FRCSC

- 10:30 AM - 10:32 AM Introduction to Format
Presenter: Benjamin Shore, MD, MPH, FRCSC
- 10:33 AM - 10:41 AM Observational Gait Analysis
Presenter: Jon Davids, MD
- 10:42 AM - 10:50 AM Quantitative Gait Analysis
Presenter: Benjamin Shore, MD, MPH, FRCSC
- 10:51 AM - 10:59 AM Common Gait Deviations in CP
Presenter: Robert Kay, MD
- 11:00 AM - 11:08 AM Clinical Decision Making Using Quantitative Gait Data
Presenter: M. Wade Shrader, MD
- 11:10 AM - 11:25 AM True Equinus with Recurvatum
*Presenters: Benjamin Shore, MD, MPH, FRCSC
Jon Davids, MD
M. Wade Shrader, MD
Robert Kay, MD
Amanda Whitaker, MD
Jennifer Laine, MD
Bryan Tompkins, MD
Kishore Mulpuri, MBBS, MHSc, FRCSC*
- 11:26 AM - 11:41 AM Jump Gait Case
*Presenters: Benjamin Shore, MD, MPH, FRCSC
Jon Davids, MD
M. Wade Shrader, MD
Robert Kay, MD
Amanda Whitaker, MD
Jennifer Laine, MD
Bryan Tompkins, MD
Kishore Mulpuri, MD*
- 11:42 AM - 12:00 PM Crouch Gait Case
*Presenters: Benjamin Shore, MD, MPH, FRCSC
Jon Davids, MD
M. Wade Shrader, MD
Robert Kay, MD
Amanda Whitaker, MD
Jennifer Laine, MD
Bryan Tompkins, MD
Kishore Mulpuri, MBBS, MHSc, FRCSC*

CME Breakout Session 1 continued

10:30 AM - 12:00 PM

Unlocking the Secrets of Managing Perthes Disease



Get up to date with pathogenesis, diagnosis, staging and management of acute and chronic Legg-Perthes Disease

Moderator: Ira Zaltz, MD

- 10:30 AM - 12:00 PM Pathogenesis of Perthes-Update on the Basic Science
Presenter: Jonathan Schoenecker, MD, PhD
- 10:30 AM - 10:36 AM Contemporary Staging: Arthrography to Perfusion MRI
Presenter: Wudbhav (Woody) Sankar, MD
- 10:37 AM - 10:43 AM Optimal Non-Surgical Management
Presenter: Pablo Castaneda, MD
- 10:44 AM - 10:50 AM Containment in 2021-Who, When, and How
Presenter: Eduardo Novais, MD
- 10:51 AM - 10:57 AM Discussion
*Panelists: Jonathan Schoenecker, MD, PhD
Wudbhav (Woody) Sankar, MD
Pablo Castaneda, MD
Eduardo Novais, MD*
- 10:57 AM - 11:04 AM PPP - Problem Perthes Patients I – Managing hinge abduction in early Perthes
Presenter: Steven Frick, MD
- 11:05 AM - 11:11 AM PPP-Problem Perthes Patients II – Whole Head Involvement and Subluxation
Presenter: Scott Rosenfeld, MD
- 11:12 AM - 11:18 AM The “Loose” Osteochondral Head Fragment in Perthes (Pathophysiology and Treatment)
Presenter: Ira Zaltz, MD
- 11:19 AM - 11:25 AM Discussion
*Panelists: Steven Frick, MD
Scott Rosenfeld, MD
Ira Zaltz, MD*
- 11:26 AM - 11:32 AM Head Reduction-Rationale and Results-(When is This a Go-to Choice and How it Can Bail us Out of Problems)
Presenter: Daniel Sucato, MD, MS
- 11:33 AM - 11:39 AM Failed Perthes - Salvage procedures
Presenter: Ernest Sink, MD

- 11:40 AM - 11:46 AM Cases:Young (< 6) with severe Perthes, Borderline with B/C border, 9-10 with Severe and Subluxation
Presenter: Ira Zaltz, MD
- 11:47 PM - 12:00 PM Discussion
*Panelists: Daniel Sucato, MD, MS
Ernest Sink, MD
Ira Zaltz, MD*

10:30 AM - 12:00 PM

Paths to Wild Success in Pediatric Orthopaedics



A large collection of wildly successful pediatric orthopaedic surgeons (early career, mid-career and senior) will share advice with brief talks and interactive discussions. Topics include success in practice, research, continuing education, POSNA, home life, finances and international service. The Session will end with a Council of Chiefs roundtable.

Moderator: John (Jack) Flynn, MD

- 10:30 AM - 10:34 AM “Fake it ‘Till You Make it”:
Wild Success in the First 5 Years
Presenter: Lindsay Andras, MD
- 10:35 AM - 10:39 AM Finding Your Niche: Success in our Sub-Specialized World
Presenter: Mininder Kocher, MD, MPH
- 10:40 AM - 10:44 AM “Don’t Wait to be Noticed”
Presenter: Eric Edmonds, MD
- 10:44 AM - 10:47 AM Discussion
*Panelists: Lindsay Andras, MD
Mininder Kocher, MD, MPH
Eric Edmonds, MD*
- 10:48 AM - 10:52 AM Research Group Collaboration
Presenter: Theodore Ganley, MD
- 10:53 AM - 10:57 AM Moving to Become Chief
Presenter: Todd Milbrandt, MD
- 10:58 AM - 11:02 AM Getting a Degree
Presenter: Peter Waters, MD
- 11:03 AM - 11:07 AM Self-Study
Presenter: John (Jack) Flynn, MD
- 11:07 AM - 11:11 AM Discussion
*Panelists: Theodore Ganley, MD
Todd Milbrandt, MD
Peter Waters, MD
John (Jack) Flynn, MD*

CME Breakout Session I *continued*

- 11:12 AM - 11:16 AM **Wisdom for the Surgeon-Parent**
Presenter: A. Noelle Larson, MD
- 11:17 AM - 11:21 AM **International Service: Fitting it into a Real-World Practice**
Presenter: Kenneth Noonan, MD, MHCDS
- 11:21 AM - 11:23 AM **Discussion**
*Panelists: A. Noelle Larson, MD
Kenneth Noonan, MD, MHCDS*
- 11:24 AM - 11:29 PM **Wild Success in POSNA**
Presenter: Teri Stech
- 11:30 AM - 11:35 AM **Wisdom from The Legends**
*Presenters: James Beaty, MD
Jim Kasser, MD
Charles Price, MD*
- 11:35 AM - 11:39 AM **Discussion**
*Panelists: Teri Stech
James Beaty, MD
Jim Kasser, MD
Charles Price, MD*
- 11:40AM - 12:00 PM **Council of Chief's Roundtable**
*Panelists: Peter Waters, MD
Michael Vitale, MD, MPH
Peter Newton, MD
Jeffrey Sawyer, MD
David Skaggs, MD*

10:30 AM - 12:00 PM



POPS - Orthopaedic Pearls - Empowering the APP for Success

The participant will understand the fundamentals on how to perform and recognize pertinent exam findings when evaluating the pediatric orthopaedic patient.

Moderator: Erica Zepeda, MSN, APRN, CPNP

- 10:30 AM - 10:35 AM **Introduction and Case Presentation**
*Moderator:
Erica Zepeda, MSN, APRN, CPNP*
- 10:35 AM - 10:42 AM **Learning to Shoulder Upper Extremity Problems: Essentials of the Pediatric Shoulder Exam**
Presenter: Colleen Story, APNP
- 10:43 AM - 10:50 AM **Hip Hip Hooray! Essentials of the Adolescent Hip (Instability Versus Impingement)**
Presenter: Valerie Parrish, PA-C

- 10:51 AM - 11:00 AM **Q&A**
Panelists: Wendy Moon, MS, APRN, PNP
- 11:01 AM - 11:08 AM **I've Got Your Back! Essentials of the Pediatric Spine**
Presenter: Jessica Landson, PA-C
- 11:09 AM - 11:16 AM **Beyond Refluxes: Essentials of the Pediatric Neuro Exam**
*Presenter:
Megan Lomax, MS, MPAS, PA-C*
- 11:17 AM - 11:26 AM **Q&A**
Panelist: Wendy Moon, MS, APRN, PNP
- 11:27 AM - 11:34 AM **What You Really Kneed to Know. Essentials of the Pediatric Knee**
Presenter: Sheila Mason, NP
- 11:35 AM - 11:50 AM **Interactive Case Studies**
Presenter: Wendy Moon, MS, APRN, PNP
- 11:51 AM - 12:00 PM **Session Summary with Q&A**
Wendy Moon, MS, APRN, PNP

10:30 AM - 12:00 PM



A Case-based Exploration of the Management of Blount's Disease (Flipped Classroom)

An in - depth, small group interactive discussion of the spectrum of Blount's disease, focusing on understanding the controversies associated with evaluating and treating this condition throughout childhood and adolescence.

Moderator: David Podeszwa, MD

- 10:30 AM - 10:36 AM **Introduction: Case #1**
*Presenters: David Podeszwa, MD
Dror Paley, MD, FRCSC
Nicholas Fletcher, MD
John Herzenberg, MD
L. Reid Nichols, MD
Raymond Liu, MD
Vishwas Talwalkar, MD, FAAOS*
- 10:36 AM - 10:51 AM **Small Group Discussion**
*Presenter: David Podeszwa, MD
Dror Paley, MD, FRCSC
Nicholas Fletcher, MD
John Herzenberg, MD
L. Reid Nichols, MD
Raymond Liu, MD
Vishwas Talwalkar, MD, FAAOS*
- 10:51 AM - 11:00 AM **Review Key Concepts of Case #1**
*Presenters: David Podeszwa, MD
Dror Paley, MD, FRCSC
Nicholas Fletcher, MD
John Herzenberg, MD
L. Reid Nichols, MD
Raymond Liu, MD
Vishwas Talwalkar, MD, FAAOS*

CME Breakout Session 1 *continued*

11:01 AM - 11:05 AM **Case #2**
*Presenters: David Podeszwa, MD
 Dror Paley, MD, FRCSC
 Nicholas Fletcher, MD
 John Herzenberg, MD
 L. Reid Nichols, MD
 Raymond Liu, MD
 Vishwas Talwalkar, MD, FAAOS*

11:06 AM - 11:21 AM **Small Group Discussion**
*Presenters: David Podeszwa, MD
 Dror Paley, MD, FRCSC
 Nicholas Fletcher, MD
 John Herzenberg, MD
 L. Reid Nichols, MD
 Raymond Liu, MD
 Vishwas Talwalkar, MD, FAAOS*

11:21 AM - 11:30 AM **Review Key Concepts of Case #2**
*Presenters: David Podeszwa, MD
 Dror Paley, MD, FRCSC
 Nicholas Fletcher, MD
 John Herzenberg, MD
 L. Reid Nichols, MD
 Raymond Liu, MD
 Vishwas Talwalkar, MD, FAAOS*

11:31 AM - 11:35 AM **Case #3**
*Presenters: David Podeszwa, MD
 Dror Paley, MD, FRCSC
 Nicholas Fletcher, MD
 John Herzenberg, MD
 L. Reid Nichols, MD
 Raymond Liu, MD
 Vishwas Talwalkar, MD, FAAOS*

11:36 AM - 11:51 AM **Small Group Discussion**
*Presenters: David Podeszwa, MD
 Dror Paley, MD, FRCSC
 Nicholas Fletcher, MD
 John Herzenberg, MD
 L. Reid Nichols, MD
 Raymond Liu, MD
 Vishwas Talwalkar, MD, FAAOS*

11:51 AM - 12:00 PM **Review of Key Concepts Case #3**
*Presenters: David Podeszwa, MD
 Dror Paley, MD, FRCSC
 Nicholas Fletcher, MD
 John Herzenberg, MD
 L. Reid Nichols, MD
 Raymond Liu, MD
 Vishwas Talwalkar, MD, FAAOS*

12:00 PM - 1:00 PM **Lunch and Exhibits**

1:00 PM - 2:00 PM

**Ponseti On The Go
 Hands-On Instruction**



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

Hands-On Faculty: Maryse Bouchard, MD

Concurrent Session 1



1:00 PM - 3:00 PM

**From Head to Toes- A Case-Based
 Discussion of Skeletal Dysplasia**

This concurrent session will be an in-depth look at skeletal dysplasia clinical cases managed by experts in this field. They will explain their assessment, decision-making and surgical tips. There will be plenty of time for discussion and audience participation will be vital to make this a vibrant educational session. The speakers will conclude each case with key take-home points for treating this challenging patient population.

Moderator: William Mackenzie, MD

eModerator: Pablo Castaneda, MD

1:00 PM - 1:20 PM **Mistakes I Have Made in Treating Skeletal Dysplasia Patients**
Presenter: William Mackenzie, MD

1:20 PM - 1:40 PM **Spine - Instability, Stenosis, and Scoliosis**
Presenter: Peter Newton, MD

1:40 PM - 2:00 PM **Upper Limb - It's All About Function**
Presenter: Peter Waters, MD

2:00 PM - 2:20 PM **The Hip - Intervene Before It's Too Late!**
Presenter: Pablo Castaneda, MD

2:20 PM - 2:40 PM **Alignment and Lengthening - Is It Worth While**
Presenter: David Podeszwa, MD

2:40 PM - 3:00 PM **The Foot and Ankle - Casting Alone Doesn't Always Work**
Presenter: Steven Frick, MD

Concurrent Session I *continued*

1:00 PM - 3:00 PM

Young Children with Scoliosis – Modern Techniques for Controlling the Curve



This session will discuss latest management strategies for the treatment of early onset and congenital scoliosis.

Moderator: A. Noelle Larson, MD

eModerator: Sumeet Garg, MD

1:00 PM - 1:20 PM

Debate: 4 year old 50 degree curve

1:00 PM - 1:05 PM

Nonoperative Strategies for Success: Casting and Bracing

Presenter: Bryan Tompkins, MD

1:06 PM - 1:11 PM

Start with Spine- or Rib-Based Growing Rods

Presenter: Laurel Blakemore, MD

1:12 PM - 1:17 PM

Sliding Screw Technique

Presenter: Scott Luhman, MD

1:18 PM - 1:23 PM

Brace First, Grow Modulation Later

Presenter: Stefan Parent, MD

1:23 PM - 1:33 PM

Discussion

*Panelists: Bryan Tompkins, MD
Laurel Blakemore, MD*

Scott Luhman, MD

Stefan Parent, MD

1:34 PM - 1:49 PM

Preop Evaluation for Early Onset Scoliosis

1:34 PM - 1:39 PM

How to Optimize Medical Status

Presenter: Dennis Devito, MD

1:40 PM - 1:45 PM

Preoperative Imaging - What Studies Should be Ordered and How Do You Interpret Them?

Presenter: Sumeet Garg, MD

1:46 PM - 1:51 PM

Gadgets in EOS Imaging and Surgery: What do you need to know?

Presenter: David Skaggs, MD, MMM

1:51 PM - 2:00 PM

Discussion

Panelists: Dennis Devito, MD

Sumeet Garg, MD

David Skaggs, MD, MMM

2:01 PM - 2:28 PM

MCGR: A User's Guide

2:01 PM - 2:06 PM

Indications for Placing MCGR: Is There Any Role for Traditional Growing Rods?

Presenter: John (Jack) Flynn, MD

2:07 PM - 2:12 PM

How I Lengthen

Presenter:

Robert Cho, MD, FAAOS

2:13 PM - 2:18 PM

When to Stop Lengthening and How to Successfully Perform 'Final' Fusion

Presenter: Suken Shah, MD

2:18 PM - 2:28 PM

Cases and Discussion

Panelists: John (Jack) Flynn, MD

Robert Cho, MD, FAAOS

Suken Shah, MD

2:29 PM - 3:00 PM

Case-Based Approach to Congenital Scoliosis

2:29 PM - 2:33 PM

When and Why to Proceed with Hemivertebra Excision, Cases for Observation vs. Early Treatment

Presenter: Suken Shah, MD

2:34 PM - 2:38 PM

Case Example: How to Do a Hemivertebra Excision

Presenter: Suken Shah, MD

2:39 PM - 2:43 PM

Case-Based Approach to Congenital Kyphosis

Presenter: Jeffery Sawyer, MD

2:44 PM - 2:48 PM

How To Treat a Jumbled Spine

Presenter: Michael Vitale, MD, MPH

2:49 PM - 2:53 PM

Oblique Takeoff and Deformity at the Cervicothoracic Junction:

Case Examples

Presenter: Daniel Sucato, MD, MS

2:54 PM - 3:00 PM

Discussion

Moderator: A. Noelle Larson, MD

3:00 PM - 3:20 PM

Break and Exhibits

3:20 PM - 4:30 PM

Industry Spotlight Sessions-see Page 16 for details

4:40 PM - 5:50 PM

Industry Spotlight Sessions-see Page 16 for details

6:00 PM - 7:00 PM

Directors' Welcome Reception

Thursday, December 9, 2021

- 7:00 AM - 4:00 PM Registration
- 7:00 AM - 8:00 AM Breakfast and Exhibits
- 8:00 AM - 9:10 AM Industry Spotlight Sessions-
see Page 16 for details
- 9:10 AM - 9:30 AM Break and Exhibits

General Session 2

9:30 AM - 11:30 AM

Improving Care through Quality Assessment



Quality Safety Value Clinician Engagement - Where are we now and How can I lead in my own System?

Moderator: Kevin Shea, MD

eModerator: Thomas McPartland, MD

- 9:30 AM - 9:31 AM Introduction/Background for QSVI
Moderator: Kevin Shea, MD
eModerator: Thomas McPartland, MD
- 9:31 AM - 9:38 AM High Reliability Organizations and Efficiency. HRO to HERO
Presenter: Kevin Shea, MD
- 9:38 AM - 9:45 AM Quality Improvement and Patient Safety - An Introduction.
Presenter: Julie Samora, MD, PhD
- 9:46 AM - 9:53 AM Use of Quality Improvement Methodology to Implement EBM
Presenter: Brian Brighton, MD, MPH
- 9:53 AM - 9:54 AM Using Registries, Prospective Cohorts to Improve Performance
Moderator: Brian Brighton, MD, MPH
eModerator: Thomas McPartland, MD
- 9:54 AM - 10:00 AM Setting Scoliosis Straight - Surgeon Feedback Reports
Presenter: Peter Newton, MD
- 10:01 AM - 10:07 AM SCORE Pediatric SPORTS Registry- What have we Learned to Improve Outcomes, Provide Surgeon Feedback
Presenter: Kevin Shea, MD
- 10:08 AM - 10:14 AM How have ACS Registries Improved Care?
Presenter: Brian Brighton, MD, MPH
- 10:15 AM - 10:21 AM Audience Q&A and E-questions
Presenter: Julie Samora, MD, PhD

- 10:21 AM - 10:22 AM Case Presentations on Care Improvement Programs
Moderator: Julie Samora, MD, PhD
eModerator: Thomas McPartland, MD
- 10:22 AM - 10:30 AM High-Quality Spine Care Teams
Presenter: Michael Vitale, MD, MPH
- 10:31 AM - 10:39 AM Quality Improvement Initiatives in Large Health Systems
Presenters: Julie Samora, MD, PhD
Chip Iwinski, MD
- 10:40 AM - 10:48 AM POSNA Safe Surgery Program - Early Lessons
Presenter: Kevin Shea, MD
- 10:49 AM - 10:55 AM Audience Q&A and E-questions
Presenter: Brian Brighton, MD, MPH
- 10:55 AM - 10:56 AM Starting a PI/QI Project in My Health System
Moderator: Kevin Shea, MD
eModerator: Thomas McPartland, MD
- 10:56 AM - 11:02 AM Removing Barriers and Getting Resources From Your Administration
Presenter: John (Jack) Flynn, MD
- 11:03 AM - 11:09 AM QI Example Presentation, A3 Document, with AIM Statement Key Drivers (Tentative - Pathology/Culture Specimen Handling Process
Presenter: Julie Samora, MD, PhD
- 11:10 AM - 11:16 AM Moving the Team Forward Monitoring of PI with Staff, Run Charts, Diagrams
Presenter: Brian Brighton, MD, MPH
- 11:17 AM - 11:23 AM Focus, True North, Cadence of Accountability, and Avoiding Quality Relapses
Presenter: Kevin Shea, MD
- 11:24 AM - 11:30 AM Audience Q&A and E-questions
Presenter: Brian Brighton, MD, MPH

- 11:30 AM - 12:30 PM Lunch and Exhibits
- 11:45 AM - 12:30 PM Luncheon Career Development

CME Breakout 2

12:30 PM - 2:00 PM

Essentials of Pediatric Orthopaedics II



For learners and practitioners of all levels, join our esteemed faculty for a review of the essentials of pediatric orthopaedics.

Moderator: Bryan Tompkins, MD

- 12:30 PM - 12:50 PM Common Genetic Syndromes and Dysplasias
Presenter: Jonathan Phillips, MD
- 12:51 PM - 1:05 PM Foot: Clubfoot, CVT, MA, Tarsal Coalitions
Presenter: Bryan Tompkins, MD
- 1:06 PM - 1:15 PM Spina Bifida
Presenter: Jon Davids, MD
- 1:16 PM - 1:20 PM Discussion
*Panelists: Jonathan Phillips, MD
Jon Davids, MD*
- 1:21 PM - 1:30 PM Musculoskeletal Infections
Presenter: Thomas McPartland, MD
- 1:31 PM - 1:40 PM Child Abuse
Presenter: Christine Ho, MD
- 1:41 PM - 1:50 PM Limping Child
Presenter: Craig Ebersson, MD
- 1:51 PM - 2:00 PM How to Manage a Busy Fracture Clinic
Presenter: Mauricio Silva, MD

12:30 PM - 2:00 PM

Emerging Technologies in Scoliosis Surgery



Hear from the experts how they have incorporated new technology into their surgical spine practice.

Moderator: Robert Cho, MD, FAAOS

- 12:30 PM - 12:35 PM Does Patient Specific Rod Contouring and Planning Software Improve Surgical Outcomes?
Presenter: Robert Cho, MD, FAAOS
- 12:36 PM - 12:41 PM Implementations of Intraoperative Drill Guides in Spinal Deformity Surgery
Presenter: Sumeet Garg, MD
- 12:42 PM - 12:47 PM How I use the Electroconductivity Device in Spine Surgery
Presenter: Laurel Blakemore, MD

- 12:48 PM - 12:53 PM Successful Use of Ultrasonic Bone Cutting Device in Pediatric Spine Deformity
Presenter: Suken Shah, MD
- 12:53 PM - 1:03 PM Discussion
*Panelists: Robert Cho, MD, FAAOS
Sumeet Garg, MD
Laurel Blakemore, MD
Suken Shah, MD*
- 1:04 PM - 1:09 PM How to Successfully Use a Surgical Robot in Pediatric Spine Deformity
Presenter: Dennis Devito, MD
- 1:10 PM - 1:15 PM Benefits and Pitfalls of Intraoperative CT Navigation
Presenter: A. Noelle Larson, MD
- 1:16 PM - 1:21 PM What's New with Biplanar Slot Scanning Imaging and FEA Modeling
Presenter: Stefan Parent, MD
- 1:22 PM - 1:27 PM How Do You Get It Into Your Hospital: Financing a Big Capital Expenditure
Presenter: John (Jack) Flynn, MD
- 1:27 PM - 1:37 PM Discussion
*Panelists: Dennis Devito, MD
A. Noelle Larson, MD
Stefan Parent, MD
John (Jack) Flynn, MD*
- 1:38 PM - 1:43 PM When I Use Posterior Nonfusion Devices Other than Growing Rods
Presenter: Jeffery Sawyer, MD
- 1:44 PM - 1:49 PM Anterior Instrumentation Without Fusion: Indications and Implementation
Presenter: Todd Milbrandt, MD
- 1:50 PM - 1:55 PM Harnessing Power for Scoliosis Surgery
Presenter: David Skaggs, MD, MMM
- 1:55 PM - 2:00 PM Discussion
*Panelists: Jeffery Sawyer, MD
Todd Milbrandt, MD
David Skaggs, MD, MMM*

12:30PM - 2:00 PM

Growth Modulation: Where Are We in 2021?



An evidenced based review of the indications for and latest techniques of growth modulation, including interactive case-based discussions.

Moderator: L. Reid Nichols, MD

- 12:30 PM - 12:32 PM Welcome/Introduction
Moderator: L. Reid Nichols, MD

CME Breakout 2 *continued*

- 12:33 PM - 12:40 PM **Modulating Genu Valgum: Does Technique Matter?**
Presenter: John Herzenberg, MD
- 12:41 PM - 12:48 PM **Modulating Varus in the Adolescent: When too Big Fails**
Presenter: David Podeszwa, MD
- 12:48 PM - 12:53 PM **Discussion**
*Panelists: John Herzenberg, MD
David Podeszwa, MD*
- 12:54 PM - 1:01 PM **Modulation of Knee Flexion Contractures: Does it Work?**
Presenter: M. Wade Shrader, MD
- 1:02 PM - 1:09 PM **Does It Work for Everyone? Modulating the Syndromic Patient**
Presenter: Christof Radler, MD
- 1:09 PM - 1:14 PM **Discussion**
*Presenters: M. Wade Shrader, MD
Christof Radler, MD*
- 1:15 PM - 1:22 PM **Proximal Femoral Modulation: Who and When?**
Presenter: Raymond Liu, MD
- 1:22 PM - 1:27 PM **Discussion**
Presenter: Raymond Liu, MD
- 1:28 PM - 2:00 PM **Case Discussion**
*Presenters: L. Reid Nichols, MD
John Herzenberg, MD
David Podeszwa, MD
M. Wade Shrader, MD
Christof Radler, MD
Raymond Liu, MD*

12:30 PM - 2:00 PM

Pelvic Osteotomy I: Salter, Dega, Pemberton (Hands-On Workshop)



Introduction to pericapsular osteotomies in skeletally immature patients: evolution of indication and technique
Moderator: Pablo Castaneda, MD

- 12:30 PM - 12:50 PM **20 minute Lecture/Cases**
Presenter: Wudbhav (Woody) Sankar, MD
- 12:50 PM - 2:00 PM **Hands-On Portion**
*Hands-On Faculty:
Eduardo Novais, MD
Scott Rosenfeld, MD
Ira Zaltz, MD
Thomas Wirth, MD, PhD
Kishore Mulpri, MD*

12:30 PM - 2:00 PM

Ponseti I (Hands-On Workshop)



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

Moderator: Derek Kelly, MD

- 12:30 PM - 12:35 PM **Clubfoot Ponseti Video**
Presenter: Derek Kelly, MD
- 12:36 PM - 12:41 PM **Alternate Casting Techniques and When to Use Them**
Presenter: Vishwas Talwalkar, MD, FAAOS
- 12:42 PM - 12:47 PM **Never Do These Things When Casting Clubfeet**
Presenter: Maryse Bouchard, MD
- 12:48 PM - 12:53 PM **Bracing Compliance Tricks**
Presenter: Jennifer Laine, MD
- 12:54 PM - 12:59 PM **Managing the Casting Environment**
Presenter: Kenneth Noonan, MD, MHCDS
- 12:59 PM - 2:00 PM **Hands-On Instruction**
*Hands-On Faculty:
Derek Kelly, MD
Vishwas Talwalkar, MD, FAAOS
Jennifer Laine, MD
Kenneth Noonan, MD, MHCDS
Maryse Bouchard, MD
Vincent Mosca, MD*

12:30 PM - 2:00 PM

POPS - Orthopaedic Implications of Obesity to Overuse



The participant will understand the impact of obesity and overuse on the immature skeleton, become familiar with common obesity and overuse related conditions and how to manage them, and discuss the role of physical therapy, psychology and pain management in this population.

Moderator: Erica Zepeda, MSN, APRN, CPNP

- 12:30 PM - 12:35 PM **Introduction of Speakers and Review of the Session Objectives**
*Moderator:
Erica Zepeda, MSN, APRN, CPNP*
- 12:36 PM - 12:43 PM **SCFE. It's Not Just for the Big Kids.**
Presenter: Jose Herrera-Soto, MD
- 12:44 PM - 12:51 PM **When the Physis Get's Sick: Blount's**
Presenter: Colleen Story, APNP

CME Breakout 2 *continued*

- 12:52 AM - 12:59 PM **Perioperative Considerations for the Obese**
Presenter: Amanda Whitaker, MD
- 1:00 PM - 1:07 PM **Vitamin D and Obesity**
Presenter: Betsy Aronson, CNP
- 1:08 PM - 1:20 PM **Q&A**
Panelist: Wendy Moon, MS, APRN, PNP
- 1:23 PM - 1:30 PM **Upper Extremity: Young Overhead Athlete**
Presenter: Eric Edmonds, MD
- 1:31 PM - 1:38 PM **Lower Extremity: Common Knee Injuries**
Presenter: Jennifer Weiss, MD
- 1:39 PM - 1:46 PM **Role of PT, Psychology and Pain Management**
Presenter: Jennifer Beck, MD
- 1:47 PM - 2:00 PM **Q&A**
Panelist: Wendy Moon, MS, APRN, PNP

12:30 PM - 2:00 PM

Breakout: Common Lessons Learned from Osteogenesis Imperfecta and Skeletal Dysplasia Patients



This breakout session will cover the latest management concepts for skeletal dysplasia and osteogenesis imperfecta patients. It will be a practical session with a “how I do it” focus in 2021. The speakers will cover what they personally think about when treating this group of orthopaedic patients and challenges they are faced with in achieving optimal outcomes. Many clinical cases will be presented and there is plenty of time for discussion so bring plenty of questions

Moderator: William Mackenzie, MD

- 12:30 PM - 12:32 PM **Introduction**
Moderator: William Mackenzie, MD
eModerator: Jeanne Franzone, MD
- 12:33 PM - 12:40 PM **What's New in Skeletal Dysplasia 2021**
Presenter: Jeanne Franzone, MD
- 12:41 PM - 12:47 PM **How I Investigate a New Patient with Short Stature**
Presenter: Alexandre Arkader, MD
- 12:47 PM - 12:57 PM **Discussion**
Panelists: William Mackenzie, MD
Alexandre Arkader, MD
Jeanne Franzone, MD

- 12:58 PM - 1:05 PM **Tips and Tricks for Skeletal Dysplasia Surgery**
Presenter: William Mackenzie, MD
- 1:05 PM - 1:10 PM **Discussion**
Panelists: William Mackenzie, MD
Alexandre Arkader, MD
Jeanne Franzone, MD
- 1:11 PM - 1:18 PM **Cervical Spine Instability in Skeletal Dysplasia - How to Investigate, Follow, and When to Intervene**
Presenter: Scott Luhmann, MD
- 1:18 PM - 1:23 PM **Discussion**
Panelist: Scott Luhmann, MD
- 1:24 PM - 1:31 PM **Osteogenesis Imperfecta - Long Bone Management**
Presenter: Michelle Caird, MD
- 1:36 PM - 1:43 PM **Osteogenesis Imperfecta - The Spine**
Presenter: Suken Shah, MD
- 1:43 PM - 2:00 PM **Discussion**
Panelists: William Mackenzie, MD
Alexandre Arkader, MD
Jeanne Franzone, MD
Scott Luhmann, MD
Michelle Caird, MD
Suken Shah, MD

2:00 PM - 2:20 PM **Break and Exhibits**

2:00 PM - 3:00 PM

Ponseti On The Go Hands-On Instruction



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

Hands-On Faculty: Derek Kelly, MD



Concurrent Session 2

2:20 PM - 4:20 PM



Current Controversies in Pediatric ACL and Elbow Injuries in the Teen Athlete

Review of the expanding options for ACL Reconstruction, Lateral Extra - articular Reconstruction, and Elbow OCD/ Instability

Moderator: Kevin Shea, MD

eModerator: Jennifer Beck, MD

- 2:20 PM - 2:22 PM Introduction
Moderator: Kevin Shea, MD
- 2:23 PM - 2:28 PM Update on ACL Repair – State of the Art
Presenter: Jennifer Beck, MD
- 2:29 PM - 2:33 PM Allograft/Autograft Debate
Presenter: Theodore Ganley, MD
- 2:34 PM - 2:39 PM Hamstring Autograft Indications, Harvest Tips and My Preferred Fixation
Presenter: Kevin Shea, MD
- 2:40 PM - 2:45 PM Quad Tendon Indications, Harvest Tips and My Preferred Fixation
Presenter: Eric Edmonds, MD
- 2:46 PM - 2:51 PM BTB Graft Indications, Harvest Tips and My Preferred Fixation
Presenter: Henry Ellis, MD
- 2:51 PM - 3:00 PM Discussion/Case Presentations
*Panelists: Jennifer Beck, MD
Theodore Ganley, MD
Kevin Shea, MD
Eric Edmonds, MD
Henry Ellis, MD*
- 3:00 PM - 3:25 PM **Anterolateral “Ligament” instead of Lateral Extra—Articular Tendon Reconstruction**
Moderator: Kevin Shea, MD
- 3:01 PM - 3:06 PM Lateral Structures of the Knee
Presenter: Kevin Shea, MD
- 3:07 PM - 3:12 PM Revision ACL in Children – How Do We Treat This Population With The Highest Rates of ACL Re - Tear?
Presenter: Jennifer Beck, MD
- 3:13 PM - 3:18 PM LET Procedures – How I Do This
Presenter: Theodore Ganley, MD

- 3:18 PM - 3:25 PM Discussion
*Panelist: Kevin Shea, MD
Jennifer Beck, MD
Theodore Ganley, MD*
- 3:26 PM - 3:49 PM **Elbow Instability Treatment**
Moderator: Kevin Shea, MD
- 3:26 PM - 3:31 PM Evaluation and Non - operative Treatment of UCL
Presenter: Jennifer Weiss, MD
- 3:32 PM - 3:37 PM Indications, Technique for UCL Repair, Augmentation
Presenter: Mininder Kocher, MD, MPH
- 3:38 PM - 3:43 PM Indications, Technique for UCL Reconstruction, Augmentation
Presenter: Eric Edmonds, MD
- 3:44 PM - 3:49 PM Discussion, Case Presentation
*Panelists: Jennifer Weiss, MD
Mininder Kocher, MD, MPH
Eric Edmonds, MD*
- 3:50 PM - 4:20 PM **Elbow OCD**
Moderator: Kevin Shea, MD
- 3:50 PM - 3:54 PM Epidemiology, Natural History, Prevention of Elbow OCD
Presenter: Jennifer Weiss, MD
- 3:55 PM - 4:00 PM Indication, Technique for Arthroscopy, Drilling
Presenter: Eric Edmonds, MD
- 4:01 PM - 4:06 PM Indication, Technique for Cartilage Repair, Reconstruction
Presenter: Mininder Kocher, MD, MPH
- 4:07 PM - 4:12 PM Osteochondral Grafts - Tips, Tricks, Graft Choice
Presenter: Theodore Ganley, MD
- 4:13 PM - 4:20 PM Discussion, Case Presentation
*Panelists: Jennifer Weiss, MD
Eric Edmonds, MD
Mininder Kocher, MD, MPH
Theodore Ganley, MD*

Concurrent Session 2 *continued*

2:20 PM - 4:20 PM

Hand & Upper Extremity:
Best Tools in the Toolbox



We all have our favorite tools to tackle complex problems. Join our illustrious IPOS® faculty for this fast-paced, case-based discussion on post-traumatic and neuromuscular disorders of the upper extremity. Learn as our experts discuss their favorite tools, and how these tools improve the function of our patients!

Moderator: Donald Bae, MD

eModerator: Julie Samora, MD, PhD

- 2:20 PM - 2:22 PM Introduction
Presenter: Donald Bae, MD
- 2:23 PM - 2:25 PM Forearm Malunion Case
Presenter: Christine Ho, MD
- 2:26 PM - 2:35 PM Forearm Malunion Discussion
Presenters: Christine Ho, MD
Panelists: Scott Kozin, MD
Julie Samora, MD, PhD
Christine Ho, MD
- 2:36 PM - 2:40 PM Forearm Malunion
Presenter: Christine Ho, MD
- 2:41 PM - 2:43 PM Chronic Monteggia Case
Presenter: Scott Kozin, MD
- 2:44 PM - 2:53 PM Chronic Monteggia Discussion
Presenters: Scott Kozin, MD
Panelists: Donald Bae, MD
Julie Samora, MD, PhD
Christine Ho, MD
- 2:54 PM - 2:58 PM Chronic Monteggia Technique
Presenter: Scott Kozin, MD
- 2:59 PM - 3:01 PM Lateral Condyle Malunion Case
Presenter: Donald Bae, MD
- 3:02 PM - 3:11 PM Lateral Condyle Malunion Discussion
Presenter: Donald Bae, MD
Panelists: Scott Kozin, MD
Julie Samora, MD, PhD
- 3:12 PM - 3:16 PM Lateral Condyle Malunion Technique
Presenter: Donald Bae, MD
- 3:16 PM - 3:20 PM Summary & Take Home Points
Presenter: Donald Bae, MD
- 3:20 PM - 3:22 PM Introduction to Neuromuscular Conditions
Presenter: Julie Samora, MD, PhD

- 3:23 PM - 3:25 PM Arthrogyposis Elbow Case
Presenter: Scott Kozin, MD
- 3:26 PM - 3:35 PM Arthrogyposis Elbow Discussion
Presenter: Scott Kozin, MD
Panelists: Donald Bae, MD
Julie Samora, MD, PhD
Peter Waters, MD
- 3:36 PM - 3:40 PM Arthrogyposis Technique
Presenter: Scott Kozin, MD
- 3:41 PM - 3:43 PM CP Wrist Case
Presenter: Julie Samora, MD, PhD
- 3:44 PM - 3:53 PM CP Wrist Discussion
Presenter: Julie Samora, MD, PhD
Panelists: Scott Kozin, MD
Peter Waters, MD
Donald Bae, MD
- 3:54 PM - 3:58 PM CP Wrist Technique
Presenter: Julie Samora, MD, PhD
- 3:59 PM - 4:01PM BPBP Shoulder Case
Presenter: Peter Waters, MD
- 4:02 PM - 4:11 PM BPBP Discussion
Presenter: Peter Waters, MD
Panelists: Donald Bae, MD
Scott Kozin, MD
Julie Samora, MD, PhD
- 4:12 PM - 4:16 PM BPBP Technique
Presenter: Peter Waters, MD
- 4:16 PM - 4:20 PM Summary & Take Home Points
Presenter: Julie Samora, MD, PhD

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





JPOSNA® Call for Content

We are looking for content for future editions of JPOSNA®

- Top Surgical Tips...Teach us What We Can Do Better
- Don't Do This Case Reports
- Ideas for future Current Concept Reviews or other content

Please contact Ken Noonan, MD, Editor-in-Chief, prior to writing:

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As of December 31, 2021, the *Journal of the Pediatric Society of North America* (JPOSNA®) will become the official journal of POSNA.

JPOSNA® is an open access online journal focusing on pediatric orthopaedic conditions, treatment, and technology. The Journal is published quarterly in February, May, August, and November. For the latest JPOSNA® issue, visit jposna.org.

Friday, December 10, 2021

7:00 AM - 3:00 PM Registration

7:00 AM - 8:00 AM Break and Exhibits

Concurrent Session 3

8:00 AM - 10:00 AM

Cerebral Palsy Hip and Spine: Challenges in Concomitant Management for the Non-Ambulant Child



A practical approach to hip and spine management for the non-ambulatory child with Neuromuscular Complex Chronic Conditions

Moderator: Jon Davids, MD

eModerator: Benjamin Shore, MD, MPH, FRCSC

8:00 AM - 8:06 AM Decision Making and Dosage for Hip and Spine Pathology
Presenter: Amanda Whitaker, MD

8:07 AM - 8:13 AM Pathophysiology/Natural History and Hip Surveillance
Presenter: Kishore Mulpuri, MBBS, MHSc, FRCSC

8:14 AM - 8:20 AM Pathophysiology/Natural History & Need for Spine Surveillance
Presenter: M. Wade Shrader, MD

8:21 AM - 8:27 AM Early Strategies to Prevent Hip Displacement: Botox/Phenol/Soft Tissue Surgery/Guided Growth
Presenter: Jon Davids, MD

8:28 AM - 8:34 AM Proximal Femoral Osteotomy: Principles and Dosage
Presenter: Robert Kay, MD

8:35 AM - 8:41 AM Who Needs a Pelvic Osteotomy? Decision Making with an Open Tri-Radiate Cartilage
Presenter: Benjamin Shore, MD, MPH, FRCSC

8:42 AM - 8:48 AM Who Needs a Pelvic Osteotomy? Decision Making with an Closed Tri- Radiate Cartilage
Presenter: Ira Zaltz, MD

8:49 AM - 8:55 AM Palliative Surgery for the Non-Reconstructable Hip
Presenter: Jonathan Schoenecker, MD, PhD

8:56 AM - 9:04 AM Discussion
*Panelists: Amanda Whitaker, MD
Kishore Mulpuri, MBBS, MHSc, FRCSC
M. Wade Shrader, MD
Robert Kay, MD
Ira Zaltz, MD
Jonathan Schoenecker, MD, PhD*

9:05 AM - 9:11 AM Perioperative Assessment and Optimization of Outcomes for Hip and Spine Surgery in Non-Ambulant Children with CP
Presenter: M. Wade Shrader, MD

9:12 AM - 9:18 AM Current Controversies in NM Spine - Is There a Role for Modulated Growth?
Presenter: Lindsay Andras, MD

9:19 AM - 9:20 AM The Child with Hip and Spine Pathology: What Needs to be Addressed First?
Presenter: Nicholas Fletcher, MD

9:21 AM - 9:30 AM Case Discussion - Scoliosis and Windswept Hips
*Panelists: Lindsay Andras, MD
M. Wade Shrader, MD
Nicholas Fletcher, MD
Robert Kay, MD
Amanda Whitaker, MD*

9:31 AM - 9:40 AM Case Discussion - Hip vs Spine in Under 8
*Panelists: Lindsay Andras, MD
M. Wade Shrader, MD
Nicholas Fletcher, MD
Robert Kay, MD
Amanda Whitaker, MD*

9:41 AM - 9:50 AM Case Discussion - Hip vs Spine in Older than 12
*Panelists: Lindsay Andras, MD
M. Wade Shrader, MD
Nicholas Fletcher, MD
Robert Kay, MD
Amanda Whitaker, MD*

9:51 AM - 10:00 AM Discussion
*Panelists: Lindsay Andras, MD
M. Wade Shrader, MD
Nicholas Fletcher, MD
Robert Kay, MD
Amanda Whitaker, MD*

Concurrent Session 3 continued

8:00 AM - 10:00 AM

The Pediatric Orthopaedic Educators Symposium: The Journey from Curriculum Design to Feedback - For our Learners and Ourselves



Modern Pediatric Orthopaedic education must respond to changes in our learning environment. This symposium focuses on effectively designing a streamlined educational experience for a variety of learners and ourselves. Giving and receiving feedback are the skills that drive improvement, and they can be developed. This symposium will teach you how to incorporate feedback into your teaching as well as into your own self-assessment practice.

Moderator: Craig Eberson, MD

eModerator: Thomas McPartland, MD

- 8:00 AM - 8:05 AM Introduction: Effective Curriculum Design Requires Forethought and Knowledge
Presenter: Craig Eberson, MD
- 8:06 AM - 8:12 AM Defining Competence - What Does This Learner Need to Know
Presenter: Thomas McPartland, MD
- 8:13 AM - 8:19 AM Curriculum Design for the OR
Presenter: Matthew Oetgen, MD, MBA
- 8:21 AM - 8:26 AM Curriculum Design in the Outpatient Setting
Presenter: Julie Samora, MD, PhD
Panelists: Craig Eberson, MD
- 8:27 AM - 9:04 AM Panel Discussion
Panelists: Thomas McPartland, MD
Matthew Oetgen, MD, MBA
Julie Samora, MD, PhD
- 9:05 AM - 9:12 AM Giving Feedback
Presenter: Craig Eberson, MD
- 9:13 AM - 9:20 AM Self Assessment - Feedback from Others/Yourself
Presenter: Suken Shah, MD
- 9:21 AM - 10:00 AM Performance as an Educator/Discussion

9:00 AM - 10:00 AM

Ponseti On The Go Hands-On Instruction



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

Hands-On Faculty: L. Reid Nichols, MD

-
- 10:00 AM - 10:20 AM Break and Exhibits
 - 10:20 AM - 11:30 AM Industry Spotlight Sessions- see Page 16 for details
 - 11:30 AM -12:30 PM Lunch and Exhibits
 - 11:45 AM -12:30 PM Lunchtime Career Development
-

General Session 3

12:30 PM - 2:30 PM

Author's Preferred Techniques



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

Moderator: A. Noelle Larson, MD

eModerator: Steven Frick, MD

- 12:30 PM - 12:32 PM Introduction
Moderator: A. Noelle Larson, MD
- 12:33 PM - 12:38 PM My Best Hamstring Anterior Cruciate Ligament Reconstruction
Presenter: Kevin Shea, MD
- 12:39 PM - 12:44 PM How to Evaluate and Treat Unstable Knee OCDs
Presenter: Theodore Ganley, MD
- 12:45 PM - 12:50 PM "Tommy John" Surgery in a Pediatric Athlete—Indications and Technique
Presenter: Donald Bae, MD
- 12:50 PM - 12:55 PM Discussion
Moderator: A. Noelle Larson, MD
eModerator: Steven Frick, MD
- 12:56 PM - 1:01 PM Percutaneous Bunion Correction and Results
Presenter: L. Reid Nichols, MD
- 1:02 PM - 1:07 PM How Do I Make Pollicization Successful?
Presenter: Peter Waters, MD

General Session 3 continued

- 1:08 PM - 1:13 PM **Tips for Successful Distal Femoral Extension Osteotomy in Cerebral Palsy**
Presenter: Benjamin Shore, MD, MPH, FRCSC
- 1:13 PM - 1:18 PM **Discussion**
Moderator: A. Noelle Larson, MD
eModerator: Steven Frick, MD
- 1:19 PM - 1:24 PM **Type 4 Supracondylar Humerus Fractures - Made Easy**
Presenter: Christine Ho, MD
- 1:25 PM - 1:30 PM **Radial Neck Fractures - How to Fix?**
Presenter: Kenneth Noonan, MD, MHCDS
- 1:31 PM - 1:36 PM **Surgical Technique for Triplane Fractures**
Presenter: Jeffery Sawyer, MD
- 1:36 PM - 1:41 PM **Discussion**
Moderator: A. Noelle Larson, MD
eModerator: Steven Frick, MD
- 1:42 PM - 1:47 PM **How I Perform a Pelvic Osteotomy for Developmental Hip Dysplasia**
Presenter: Wudbhav (Woody) Sankar, MD
- 1:48 PM - 1:53 PM **Periacetabular Osteotomy Technique in 2021**
Presenter: Ira Zaltz, MD
- 1:54 PM - 1:59 PM **Performing Rotationplasty for Congenital Femoral Deficiency**
Presenter: Dror Paley, MD, FRCSC
- 1:59 PM - 2:04 PM **Discussion**
Moderator: A. Noelle Larson, MD
eModerator: Steven Frick, MD
- 2:05 PM - 2:10 PM **Anterior Vertebral Body Tethering Using Navigation**
Presenter: A. Noelle Larson, MD
- 2:11 PM - 2:16 PM **Utilizing Robot Technology in Pediatric Spinal Deformity**
Presenter: Dennis Devito, MD
- 2:17 PM - 2:22 PM **How do I do the Best BOGRD?**
Presenter: Julie Samora, MD, PhD
- 2:22 PM - 2:28 PM **Discussion**
Moderator: A. Noelle Larson, MD
eModerator: Steven Frick, MD
- 2:28 PM - 2:30 PM **Voting - Best Presentation**
Moderator: Steven Frick, MD

- 2:30 PM - 2:40 PM **Awards**
Presentation of Resident Case, Top Gun, and Best Authors' Preferred Techniques Awards

- 2:40 PM - 3:00 PM **Break and Exhibits**

CME Breakout 3

3:00 PM - 4:30 PM

Essentials of Pediatric Orthopaedics III



For learners and practitioners of all levels, join our esteemed faculty for a review of the essentials of pediatric orthopaedics.

Moderator: Brian Brighton, MD, MPH

- 3:00 PM - 3:20 PM **Congenital LE overview**
Presenter: Amanda Whitaker, MD
- 3:21 PM - 3:40 PM **Trauma UE**
Presenter: Mauricio Silva, MD
- 3:41 PM - 3:45 PM **Discussion**
Panelists: Amanda Whitaker, MD
Mauricio Silva, MD
- 3:46 PM - 4:05 PM **Sports: Knee Ankle**
Presenter: Bryan Tompkins, MD
- 4:06 PM - 4:20 PM **Sports: Shoulder Elbow**
Presenter: Brian Brighton, MD, MPH
- 4:21 PM - 4:30 PM **Tumor: The Good, The Bad, and The Ugly**
Presenter: Alexandre Arkader, MD

3:00 PM - 4:30 PM

Managing Tibia Bowing in Children



Experts' analysis of and management recommendations for congenital tibial bowing including interactive case-based discussion.

Moderator: John Herzenberg, MD

- 3:00 PM - 3:02 PM **Welcome/Introduction**
Moderator: John Herzenberg, MD
- 3:03 PM - 3:08 PM **When to Worry and When Not to**
Presenter: Christof Radler, MD
- 3:09 PM - 3:14 PM **Posteromedial Bow: What Do I Tell the Family?**
Presenter: David Podeszwa, MD
- 3:15 PM - 3:22 PM **Tips, Tricks, and Pearls of Tibial Lengthening**
Presenter: Raymond Liu, MD

CME Breakout 3 *continued*

- 3:22 PM - 3:29 PM **Discussion**
*Presenters: Christof Radler, MD
David Podeszwa, MD
Raymond Liu, MD*

- 3:30 PM - 3:35 PM **Pathoanatomy of Anterolateral Bowing**
Presenter: L. Reid Nichols, MD

- 3:36 PM - 3:41 PM **Biologic Treatment of CPT: Where Are We?**
*Presenter:
Jonathan Schoenecker, MD, PhD*

- 3:42 PM - 3:54 PM **Paley Cross-Union Technique for CPT**
*Presenter:
Dror Paley, MD, FRCSC*

- 3:55 PM - 4:00 PM **Discussion**
*Presenters: L. Reid Nichols, MD
Jonathan Schoenecker, MD, PhD
Dror Paley, MD, FRCSC*

- 4:00 PM - 4:30 PM **Case Discussion**
*Panelists: Christof Radler, MD
David Podeszwa, MD
Raymond Liu, MD
L. Reid Nichols, MD
Jonathan Schoenecker, MD, PhD
Dror Paley, MD, FRCSC*

3:00 PM - 4:30 PM

Hand & Upper Extremity Flipped Classroom on Congenital Conditions



Enter our Flipped Classroom to discuss the treatment of common congenital upper limb conditions with our international faculty. Materials will be provided in advance to review for this session. Come prepared to make the most out of this collaborative learning experience!

Moderator: Donald Bae, MD

- 3:00 PM - 3:05 PM **Why Flip? An Introduction**
Presenter: Donald Bae, MD

- 3:06 PM - 3:09 PM **Case #1: Radial Longitudinal Dysplasia**
Presenter: Scott Kozin, MD

- 3:10 PM - 3:25 PM **Case #1: Small Group Discussion**
*Table Leaders: Donald Bae, MD
Scott Kozin, MD
Julie Samora, MD, PhD
Peter Waters, MD*

- 3:26 PM - 3:41 PM **Case #1: Group Debrief**
Presenter: Scott Kozin, MD

- 3:42 PM - 3:45 PM **Case #2: Sprengel**
Presenter: Peter Waters, MD

- 3:46 PM - 4:01 PM **Case #2: Small Group Discussion**
*Table Leaders: Donald Bae, MD
Scott Kozin, MD
Julie Samora, MD, PhD
Peter Waters, MD*

- 4:02 PM - 4:17 PM **Case #2: Group Debrief**
Presenter: Peter Waters, MD

- 4:18 PM - 4:27 PM **Take the Classroom Home**
Presenter: Donald Bae, MD

- 4:28 PM - 4:30 PM **Make Your Own CAST**
Presenter: Donald Bae, MD

3:00 PM - 4:30 PM

Pelvic Osteotomy II: Triple Innominate Osteotomy and PAO (Hands-On Workshop)



Overview of evolving technique and indications for rotational acetabular osteotomies via case and video.

Moderator: Ira Zaltz, MD

- 3:00 PM - 4:30 PM *Presenter: Wudbhav (Woody) Sankar, MD
Hands-On Faculty:
Pablo Castaneda, MD
Ernest Sink, MD
Eduardo Novais, MD
Scott Rosenfeld, MD
Ira Zaltz, MD
Thomas McPartland, MD
Daniel Sucato, MD, MS*

3:00 PM - 4:30 PM

Ponseti I (Hands-On Workshop)



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

Moderator: Derek Kelly, MD

- 3:00 PM - 3:05 PM **Clubfoot Ponseti Video**
Presenter: Derek Kelly, MD

- 3:06 PM - 3:11 PM **Alternate Casting Techniques and When to use Them**
Presenter: Vishwas Talwalkar, MD, FAAOS

- 3:12 PM - 3:17 PM **Never Do These Things When Casting Clubfeet**
Presenter: Maryse Bouchard, MD

- 3:18 PM - 3:23 PM **Bracing Compliance Tricks**
Presenter: Jennifer Laine, MD

CME Breakout 3 *continued*

- 3:24 PM - 3:29 PM **Managing the Casting Environment**
Presenter: Kenneth Noonan, MD, MHCDS
- 3:29 PM - 4:30 PM **Hands - On Instruction**
Hands-On Faculty: Derek Kelly, MD
Vishwas Talwalkar, MD, FAAOS
Maryse Bouchard, MD
Jennifer Laine, MD
Kenneth Noonan, MD, MHCDS

- 4:08 PM - 4:13 PM **Treatment of Painful Plica Band Syndrome**
Presenter: Henry Ellis, MD
- 4:14 PM - 4:19 PM **Surgical Treatment of Osgood Schlatter**
Presenter: Jennifer Weiss, MD
- 4:20 PM - 4:30 PM **Discussion/Case Presentation**
Panelists: Henry Ellis, MD
Theodore Ganley, MD
Jennifer Weiss, MD

3:00 PM - 4:30 PM

NOT the ACL - Meniscus Injuries and Other Common Knee Pain Diagnoses in the Teen



Update on the painful knee and surgical and biologic approaches to meniscus pathology

Moderator: Eric Edmonds, MD

- 3:00 PM - 3:05 PM **How/When I Fix a Bucket Handle Tear**
Presenter: Kevin Shea, MD
- 3:06 PM - 3:11 PM **How/When to Fix a Radial Tear**
Presenter: Mininder Kocher, MD, MPH
- 3:12 PM - 3:17 PM **How/When to Fix a Root Tear**
Presenter: Jennifer Beck, MD
- 3:18 PM - 3:23 PM **How/When to Fix a Ramp/Lesion Tear**
Presenter: Eric Edmonds, MD
- 3:24 PM - 3:34 PM **Discussion/Case Presentation**
Panelists: Kevin Shea, MD
Mininder Kocher, MD, MPH
Jennifer Beck, MD
Eric Edmonds, MD
- 3:35 PM - 3:40 PM **Options for Realignment - Osteotomies, Guided Growth**
Presenter: Henry Ellis, MD
- 3:41 PM - 3:46 PM **Meniscus Transplant**
Presenter: Mininder Kocher, MD, MPH
- 3:47 PM - 3:52 PM **Biologic Options to Enhance Meniscus Repair**
Presenter: Jennifer Weiss, MD
- 3:53 PM - 4:01 PM **Discussion/Case Presentation**
Panelists: Henry Ellis, MD
Mininder Kocher, MD, MPH
Jennifer Weiss, MD
- 4:02 PM - 4:07 PM **Treatment of Anterior Knee Pain Syndrome**
Presenter: Theodore Ganley, MD

3:00 PM - 4:30 PM

The Orthopaedic Escape Room



Participants will work as a team to solve a series of pediatric orthopaedic cases in the setting of an Emergency Room escape room. Upon completion of the timed escape rooms a debriefing will occur with the group covering the important key factors of each case study.

Moderator: Erica Zepeda, MSN, APRN, CPNP



KiddFoot



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Saturday, December 11, 2021

7:00 AM - 8:00 AM Breakfast

7:30 AM - 10:30 AM Registration

Concurrent Session 4

8:00 AM - 10:00 AM

Complex Complicated Crazy Clubfoot and Adolescent Foot: When You Fuse, When to Transfer



Foot: Fusing Joints, Moving Tendons, and Clubfoot Extreme Experts present on the variability and treatment of clubfoot when associated with arthrogryposis, amniotic band syndrome, foot drop, and late presentation. Experts then give the indications and tips for arthrodeses and tendon transfers in the child's foot.

Moderator: Derek Kelly, MD
eModerator: Jennifer Laine, MD

8:00 AM - 8:38 AM Clubfoot And...
Moderator: Derek Kelly, MD
eModerator: Jennifer Laine, MD

8:00 AM - 8:06 AM Clubfoot and Arthrogryposis: Spectrum of Disease and Variations in Treatment
Presenter: Steven Frick, MD

8:07 AM - 8:13 AM Clubfoot and Amniotic Band Syndrome: Working with Bands and Partial Amputations
Presenter: Vishwas Talwalkar, MD, FAAOS

8:14 AM - 8:20 AM Clubfoot and Neurologic Deficiency: Diagnosis and Strategies to Manage Recurrence
Presenter: Kenneth Noonan, MD, MHCDS

8:21 AM - 8:27 AM Clubfoot and Late Presentation: Is Ponseti Enough?
Presenter: Bryan Tompkins, MD

8:28 AM - 8:38 AM Discussion
Panelists: Steven Frick, MD
Vishwas Talwalkar, MD, FAAOS
Kenneth Noonan, MD, MHCDS
Bryan Tompkins, MD

8:39 AM - 9:17 AM Foot Arthrodeses
Moderator: Kenneth Noonan, MD, MHCDS
eModerator: Amanda Whitaker, MD

8:39 AM - 8:45 AM Neurologic Bunion: Cerebral Palsy, Spina Bifida, Charcot Marie Tooth
Presenter: Jennifer Laine, MD

8:46 AM - 8:52 AM Hindfoot Fusion in Cerebral Palsy: Cavovarus and Planovalgus: Strategies to Limit Complications
Presenter: M. Wade Shrader, MD

8:53 AM - 8:59 AM Hindfoot Fusion and Non-neurologic Etiologies: When is Fusion the Best Option?
Presenter: Derek Kelly, MD

9:00 AM - 9:06 AM Pediatric Foot Fusions: What Does the Future Hold?
Presenter: Maryse Bouchard, MD

9:07 AM - 9:17 AM Discussion
Panelists: Jennifer Laine, MD
M. Wade Shrader, MD
Derek Kelly, MD
Maryse Bouchard, MD

9:18 AM - 9:56 AM Tendon Transfers in the Child's Foot
Moderator: Maryse Bouchard, MD
eModerator: Derek Kelly, MD

9:18 AM - 9:24 AM Tibialis Anterior for Clubfoot: Avoiding Complications
Presenter: Kenneth Noonan, MD, MHCDS

9:25 AM - 9:31 AM Tendon Transfers in Cerebral Palsy: When is it Enough?
Presenter: Jon Davids, MD

9:32 AM - 9:38 AM Tibialis Posterior for Foot Drop: Tips for Success?
Presenter: Amanda Whitaker, MD

9:39 AM - 9:45 AM Tendon Transfers in Charcot Marie Tooth: The Hindfoot and the Forefoot
Presenter: Vincent Mosca, MD

9:46 AM - 9:56 AM Discussion
Panelists: Kenneth Noonan, MD, MHCDS
Jon Davids, MD
Amanda Whitaker, MD
Vincent Mosca, MD



Concurrent Session 4 continued

8:00 AM - 10:00 AM

The World of Adolescent Hip: Beyond FAI and Dysplasia



Forget PAOs and FAI! What all pediatric orthopaedic providers must diagnose and manage.

Moderator: Pablo Castaneda, MD

eModerator: Eduardo Novais, MD

- 8:00 AM - 8:06 AM Adolescence - A Time of Pain
Presenter: David Podeszwa, MD
- 8:07 AM - 8:13 AM Not everyone has FAI or DDH-Don't Miss These Diagnoses
Presenter: Ernest Sink, MD
- 8:14 AM - 8:20 AM Stressed Out by Stress Fractures?
Presenter: Jennifer Beck, MD
- 8:21 AM - 8:27 AM Fractures of the Upper Femur: How Has Management Changed in the Locking Plate and IM Nail Era?
Presenter: Jose Herrera-Soto, MD
- 8:28 AM - 8:38 AM Discussion
*Panelists: David Podeszwa, MD
Ernest Sink, MD
Jennifer Beck, MD
Jose Herrera-Soto, MD*
- 8:39 AM - 8:45 AM Pelvic Avulsions - Nothing to Worry About?
Presenter: Mininder Kocher, MD, MPH
- 8:46 AM - 8:52 AM Femoral Chondral Lesions in Adolescents- Diagnosis and Management
Presenter: Ira Zaltz, MD
- 8:53 AM - 8:59 AM Chondrolysis-Don't Miss the Chance for Early Treatment
Presenter: Wudbhav (Woody) Sankar, MD
- 9:00 AM - 9:06 AM Osteonecrosis-Management of Ficat Stage 0, 1
Presenter: Eduardo Novais, MD
- 9:07 AM - 9:13 AM Benign Tumors Around the Hip
Presenter: Alexandre Arkader, MD
- 9:14 AM - 9:24 AM Discussion
*Panelists: Mininder Kocher, MD, MPH
Ira Zaltz, MD
Wudbhav (Woody) Sankar, MD
Eduardo Novais, MD
Alexandre Arkader, MD*

- 9:25 AM - 9:31 AM SCFE: Predictors of Contralateral Slip in 2021
Presenter: Pablo Castaneda, MD
- 9:32 AM - 9:38 AM Septic Hip in 2021: Has Anything Changed in the Past Decade?
Presenter: Jonathon Schoenecker, MD, PhD
- 9:39 AM - 9:45 AM Sepsis in 2021: Managing the Sequelae
Presenter: Thomas Wirth, MD, PhD
- 9:46 AM - 9:56 AM Inflammatory Arthropathy and the Pediatric Orthopaedist: An Orthopaedic Primer
Presenter: Kishore Mulpri, MD
- 9:56 AM - 10:00 AM Discussion
*Panelists: Pablo Castaneda, MD
Jonathon Schoenecker, MD, PhD
Thomas Wirth, MD, PhD
Kishore Mulpri, MD*

10:00 AM - 10:15 AM Break

CME Breakout 4

10:15 AM - 11:45 AM

Essentials of Pediatric Orthopaedics IV



For learners and practitioners of all levels, join our esteemed faculty for a review of the essentials of pediatric orthopaedics.

Moderator: Pablo Castaneda, MD

- 10:15 AM - 10:35 AM Congenital UE overview
Presenter: Christine Ho, MD
- 10:36 AM - 10:46 AM CP: Gait
Presenter: Brian Brighton, MD, MPH
- 10:47 AM - 10:57 AM CP: LE
Presenter: Jeanne Franzone, MD
- 10:57 AM - 11:12 AM Discussion
*Panelists: Christine Ho, MD
Brian Brighton, MD, MPH
Jeanne Franzone, MD*
- 11:13 AM - 11:23 AM Trauma LE
Presenter: Mauricio Silva, MD
- 11:24 AM - 11:34 AM Best Team Strategies to Include Advanced Practice Providers
Presenter: Wendy Moon, MS, APRN, PNP
- 11:35 AM - 11:45 AM Discussion
*Panelists: Wendy Moon, MS, APRN, PNP
Mauricio Silva, MD*

CME Breakout 4 *continued*

10:15 AM - 11:45 AM

Gait 2: Cerebral Palsy Current Concepts: Surgical Dosing According to Gait Pathology (Flipped Classroom)



A case-based session outlining surgical management for common CP gait deviations.

Moderator: Benjamin Shore, MD, MPH, FRCSC

- 10:15 AM - 10:18 AM Introduction to Format
Moderator:
Benjamin Shore, MD, MPH, FRCSC
- 10:19 AM - 10:27 AM SEMLS - Optimizing Safety and Outcomes
Presenter: Robert Kay, MD
- 10:28 AM - 10:36 AM Surgical Management of Flexed Knee in CP - What is the Surgical Dose?
Presenter: Benjamin Shore, MD, MPH, FRCSC
- 10:37 AM - 10:45 AM Foot Deformity I - Equinus & Equinovarus
Presenter: Jon Davids, MD
- 10:46 AM - 10:55 AM Foot Deformity II - Equinoplanovalgus and Hallus Valgus
Presenter: M. Wade Shrader, MD
- 10:56 AM - 11:12 AM Case-Based Discussion - Jump
Small Groups:
Benjamin Shore, MD, MPH, FRCSC
Jon Davids, MD
Amanda Whitaker, MD
M. Wade Shrader, MD
Robert Kay, MD
Jennifer Laine, MD
Bryan Tompkins, MD
Kishore Mulpuri, MBBS, MHSc, FRCSC
- 11:13 AM - 11:28 AM Case-Based Discussion - Crouch
Small Groups:
Benjamin Shore, MD, MPH, FRCSC
Jon Davids, MD
Amanda Whitaker, MD
M. Wade Shrader, MD
Robert Kay, MD
Jennifer Laine, MD
Bryan Tompkins, MD
Kishore Mulpuri, MBBS, MHSc, FRCSC

- 11:29 AM - 11:45 AM Case-Based Discussion - Foot Deformity and Malalignment
Small Groups:
Benjamin Shore, MD, MPH, FRCSC
Jon Davids, MD
Amanda Whitaker, MD
M. Wade Shrader, MD
Robert Kay, MD
Jennifer Laine, MD
Bryan Tompkins, MD
Kishore Mulpuri, MBBS, MHSc, FRCSC

10:15 AM - 11:45 AM

Tackling the Most Challenging Neuromuscular Scoliosis in Your Clinic and Operating Room



This session will outline successful surgical treatment approaches for neuromuscular scoliosis.

Moderator: Laurel Blakemore, MD

- 10:15 AM - 10:20 AM Anterior Releases, Are They Still Needed?
Presenter: Firoz Miyajji, MD, FRCSC
- 10:21 AM - 10:26 AM Pelvic Fixation
Presenter: Suken Shah, MD
- 10:27 AM - 10:32 AM Leveling the Pelvis and Intraoperative Correction Strategies
Presenter: Lindsay Andras, MD
- 10:32 AM - 10:42 AM How Does Fusion Affect HRQLY in Neuromuscular Patients?
Presenter: Robert Cho, MD, FAAOS
- 10:43 AM - 10:53 AM Discussion
Presenters: Suken Shah, MD
Lindsay Andras, MD
Robert Cho, MD, FAAOS
- 10:53 AM - 10:58 AM Infection Prevention
Presenter: Craig Ebersson, MD
- 10:58 AM - 11:03 AM Blood Conservation – Preop and Intraop
Presenter: Nicholas Fletcher, MD
- 11:03 AM - 11:08 AM Neurologic Complications – How to Predict and Manage Problems
Presenter: Michael Vitale, MD, MPH
- 11:08 AM - 11:17 AM Discussion
Presenters: Craig Ebersson, MD
Nicholas Fletcher, MD
Michael Vitale, MD, MPH

CME Breakout 4 *continued*

- 11:17 AM - 11:22 AM **Marfan Syndrome and Connective Tissue Disease**
Presenter: William Mackenzie, MD
- 11:23 AM - 11:28 AM **Role of Halo Gravity Traction**
Presenter: Scott Luhmann, MD
- 11:29 AM - 11:34 AM **Temporary Distraction Rod**
Presenter: David Skaggs, MD, MMM
- 11:34 AM - 11:45 AM **Discussion**
*Presenters: Scott Luhmann, MD
David Skaggs, MD, MMM
Firoz Miyanji, MD, FRCSC*

10:15 AM - 11:45 AM



Ponseti II Complex Clubfoot

Tips and Tricks from the Experts on managing complex clubfoot problems including neurologic causes of clubfoot, arthrogryposis, spina bifida, recurrence, late presentation, overcorrection, and post surgical deformities.

Complex Clubfoot Cases

Moderator: Derek Kelly, MD

*Presenters: Derek Kelly, MD
Panelists: Vincent Mosca, MD
Maryse Bouchard, MD
Kenneth Noonan, MD, MHCDS
John Herzenberg, MD*

10:15 AM - 11:45 AM



Achieving Wellness Means Changing Healthcare

Building and maintaining a culture of wellness is an essential component of healthcare today. Exploring approaches to individual, team and organizational wellness is a fundamental pillar of POSNA. Collaborating with organizational leaders and advocating for structural approaches to healthy care teams is a vital function of the physician leader. This session will describe strategies for building a workplace that promotes compassionate care and replenishes our collective soul.

Moderator: Vishwas Talwalkar, MD, FAAOS

- 10:15 AM - 10:23 AM **Intro-Wellness, aka Moral Injury Prevention**
Presenter: Jennifer Weiss, MD
- 10:24 AM - 10:32 AM **In Crisis, How Do We Stay Well?**
Presenter: Peter Waters, MD
- 10:33 AM - 10:41 AM **Setting the Tempo for a Team of Caregivers**
Presenter: Ernest Sink, MD

- 10:41 AM - 10:49 AM **Work-Life Balance**
Presenter: Vishwas Talwalkar, MD, FAAOS
- 10:50 AM - 11:00 AM **Discussion**
*Panelists: Jennifer Weiss, MD
Peter Waters, MD
Ernest Sink, MD
Vishwas Talwalkar, MD, FAAOS
Peter Waters, MD*
- 11:01 AM - 11:09 AM **Modeling and Teaching for Life Long Wellness**
Presenter: Steven Frick, MD
- 11:10 AM - 11:18 AM **Balancing Leadership Responsibilities and Clinical Care**
Presenter: Michelle Caird, MD
- 11:19 AM - 11:30 AM **Getting What You Need from Administration**
Presenter: Peter Newton, MD
- 11:31 AM - 11:45 AM **Discussion**
*Panelists: Steven Frick, MD
Michelle Caird, MD
Peter Newton, MD*



Fellowship Education Forum

8:00 AM - 11:45 AM

2nd Annual IPOS® Fellowship Education Forum: Best Practices, Accreditation, and the Elephant in the Room

Designed for and open to all POSNA educators, especially fellowship program directors. Join this highly interactive discussion which will include best practices for fellowship education, potential improvements in POSNA fellowship accreditation, and the future of pediatric orthopaedic fellowship training. The “audience” of our peers will be an integral part of the program and the open discussion. 3.50 **AMA PRA Category 1 Credits™** applied. Advanced registration required; included with full IPOS® registration. \$150 fee for those not registered for IPOS®.

Moderator: Jeffrey Sawyer, MD

- 7:30 AM - 8:30 AM Breakfast
- 8:00 AM - 8:02 AM Introduction
Wudbhav (Woody) Sankar, MD
- 8:03 AM - 8:10 AM How We Practically Use Surgical “Simulation”: “What If” Role Playing
Benjamin Shore, MD, MPH, FRCSC
- 8:11 AM - 8:25 AM Wisdom of the Crowd: How Others Use Surgical Simulation
Audience
- 8:26 AM - 8:33 AM How We Run Fellows Conferences
Daniel Sucato, MD, MS
- 8:34 AM - 8:48 AM Wisdom of the Crowd: How Others Run Conferences
Audience
- 8:49 AM - 8:56 AM How We Do Evaluations
Marcella Woiczik, MD
- 8:57 AM - 9:11 AM Wisdom of the Crowd: How Others Do Fellow Evals
Audience

9:12 AM - 10:39 AM

POSNA Accreditation - How can this be improved for all?

Moderator: Marcella Woiczik, MD

- 9:12 AM - 9:21 AM Accreditation for the Canadian Programs: How to Improve the Fit?
Firoz Miyanji, MD, FRCSC
- 9:22 AM - 9:37 AM Towards a Standard Curriculum: Do We Need to Reinvent the Wheel?
Scott Rosenfeld, MD
- 9:38 AM - 9:58 AM Break
- 9:59 AM - 10:08 AM First Steps Down the Competency Pathway: Where Do We Begin?
Benjamin A. Alman, MD, FRCSC
- 10:09 AM - 10:18 AM Accreditation for the Smaller Program: How Can POSNA Help Me More
John Lovejoy, MD
- 10:19 AM - 10:39 AM Open Discussion
*Firoz Miyanji, MD, FRCSC
John Lovejoy, MD*

10:40 AM - 11:45 AM

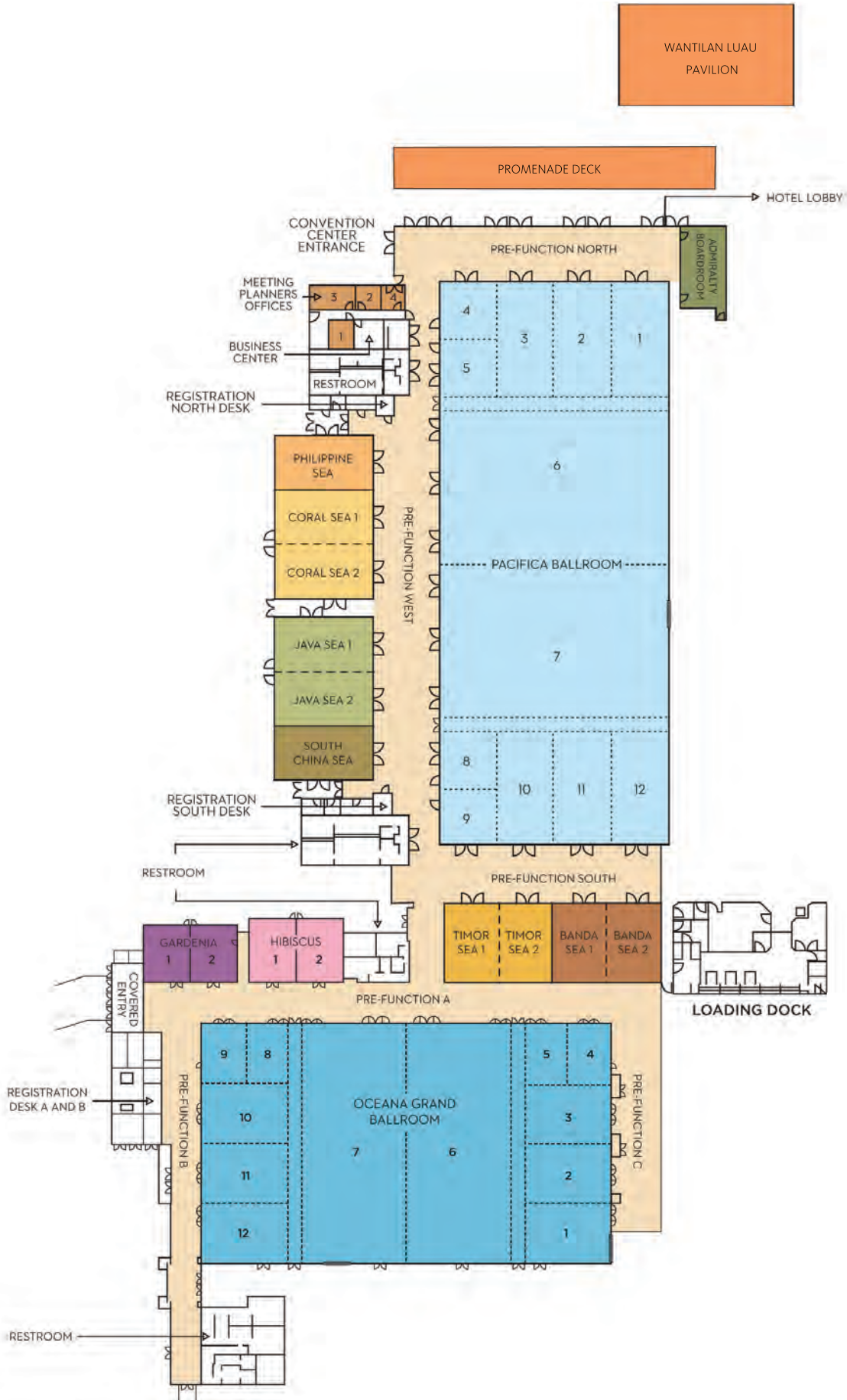
Pediatric Orthopaedic Fellowships—The Big Picture

Moderator: Jeffrey Sawyer, MD

- 10:40 AM - 10:49 AM Peds Ortho Fellowship Trends Over The Past 9 Years
Presenter: Wudbhav (Woody) Sankar, MD
- 10:50 AM - 11:04 AM Lessons from the Last Workforce Analysis: How Many Pedi Pods Do We Really Need?
Presenter: Jeffrey Sawyer, MD
- 11:05 AM - 11:19 AM Are We Training Too Many Fellows?
*Panelists: Jeffrey Sawyer, MD
Wudbhav (Woody) Sankar, MD
John (Jack) Flynn, MD
Marcella Woiczik, MD
Peter Waters, MD
Daniel Sucato, MD, MS*
- 11:20 AM - 11:44 AM Open Discussion
*Panelists: Jeffrey Sawyer, MD
Wudbhav (Woody) Sankar, MD
John (Jack) Flynn, MD
Marcella Woiczik, MD
Peter Waters, MD
Daniel Sucato, MD, MS*

11:45 AM - 12:30 PM Lunch







AquaCast Liner

Now more than ever with COVID-19, AquaCast® Liner's waterproof & breathable cast padding is trusted by leading pediatric hospitals and clinics as a proven option to improve hygiene and reduce unscheduled visits to your facility for costly recasts. Our innovative solutions are easy to use and enable patients to wash their hands, shower, swim and exercise. Our remodeled Hipster® pantaloons, used for DDH, femur fractures and other body casts, make application quicker and easier, reducing skin excoriation, and improving patient satisfaction— while simultaneously lowering overall costs. AquaCast is the standard of care in modern casting.



Axial3D

Axial3D is a multi-award winning medical imaging technology company with a mission to transform the accuracy and speed of pre-operative planning, diagnosis and treatment for all patients around the world. We do this through developing artificial intelligence-based software solutions that automatically turn hard-to-understand 2D medical scans of patient anatomy into incredibly precise and data-rich 3D visualizations.



Biedermann Motech

Since 1916, Biedermann has been working with world-class surgeons to solve clinical challenges through the development of next-generation technology. As the inventors of the first ever polyaxial pedicle screw, Biedermann Motech has changed the way spinal surgery has been treated for the last 30 years. Today, the company has over 100 employees in the US and in Europe focused on innovation, research and development, manufacturing, and sales in the spine industry.
www.BIEDERMANN.COM



C-Pro Direct

C-Pro Direct exists to support medical professionals, parents and children affected by paediatric orthopaedic conditions of the lower limbs.

C-Pro Direct designs, manufactures and sells various products to help parents and children better manage a variety of conditions affecting the lower limbs, particularly conditions which affect the ability of the foot to abduct and dorsiflex.



CURE International

CURE International is a non-profit organization that operates a global network of eight charitable children's hospitals that provide life-changing surgical care and intentional spiritual care for children living with disabilities. CURE brings healing to underserved areas where medical care is often most needed and least available. Our 8 hospitals offer a wide variety of care through specializing in areas such as orthopedics, neurosurgery, and reconstructive surgery.



DePuy Synthes

DePuy Synthes, part of the Johnson & Johnson Medical Devices Companies, provides one of the most comprehensive orthopaedics portfolios in the world. DePuy Synthes solutions, in specialties including joint reconstruction, trauma, craniomaxillofacial, spinal surgery and sports medicine, are designed to advance patient care while delivering clinical and economic value to health care systems worldwide. For more information, visit www.depuysynthes.com.



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Elsevier is a world-leading provider of information solutions that enhance the performance of science, health, and technology professionals, empowering them to make better decisions, and deliver better care.



Gillette Children's Specialty Healthcare

Gillette Children's Specialty Healthcare, located in St. Paul, Minnesota, specializes in treating children who have complex conditions, rare disorders, and traumatic injuries. Our expertise makes us a resource and partner for health systems across Minnesota, nationally, and internationally. Gillette's skilled team of health care professionals work proactively with families to help children achieve their goals and realize their potential. Gillette has one of the nation's largest concentrations of pediatric orthopedic surgeons and board-certified pediatric rehabilitation medicine specialists. As a result, our surgeons can focus on specific areas of the body and on highly complex procedures. Our team is composed of world-leading experts who've chosen to specialize in the unique needs of children, teens and adults who have conditions such as cerebral palsy, neuromuscular conditions, epilepsy, spina bifida, lower extremity conditions, hip and spine conditions and upper-extremity conditions.

Whether our patients need long-term treatment for a chronic condition or disability, or short-term care to help them through an immediate health issue, Gillette can help.



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 orthopedics therapies to imaging, navigation and robotics. Founded in 2003, Globus has become one of the fastest growing companies in the history of orthopedics. Globus is driven to utilize superior engineering and technology to achieve pain free, active lives for all patients with musculoskeletal disorders.



International Hip Dysplasia Institute

Established in 2008, the International Hip Dysplasia Institute (IHDI) is a not-for-profit collaborative effort to improve the health and quality of life of those affected by hip dysplasia. The International Hip Dysplasia Institute is supported by the Arnold Palmer Medical Center Foundation in Orlando, Florida with major sponsorship from Dan Whitney ("Larry the Cable Guy"), and his wife, Cara. With this combined effort, we have joined forces with several noted medical centers around the World to promote prevention, diagnosis, and treatment of hip dysplasia, in addition to providing education and advocacy.



MD Orthopaedics

MD Orthopaedics, based in Wayland, Iowa, is an orthopedic device company focused on design, manufacture, assembly and distribution of Ponseti Method clubfoot products. Founded in 2004 by John Mitchell, MD Orthopaedics is advancing footwear devices for non-surgical clubfoot treatment and is an industry leader in the production of ankle and foot orthotics in North America. MD Orthopaedics works closely with the orthopedic and prosthetic community and aspires to be continually innovative to offer the best possible products for the teaching, training, and implementation of the Ponseti Method of Clubfoot Treatment.

Medtronic

Medtronic

Medtronic Cranial and Spinal Technologies (CST), the market leader in spinal implants, robotics, and navigation is redefining cranial and spinal procedures to reduce variability and improve outcomes with the goal of restoring long-term quality of life for more patients. Medtronic is the first company to offer an integrated solution that includes artificial intelligence-driven surgical planning, personalized spinal implants, and robotic-assisted surgical delivery to make patient care more customized.

As a global leader in medical technology, we improve the lives and health of millions of people each year— with our innovative therapies, services, and solutions. Learn how we're taking healthcare Further, Together at medtronic.com.



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.



NuVasive

NuVasive (NASDAQ: NUVA) is the leader in spine technology innovation, with a mission to transform surgery, advance care, and change lives. The Company's less-invasive, procedurally integrated surgical solutions are designed to deliver reproducible and clinically proven outcomes. The Company's comprehensive procedural portfolio includes surgical access instruments, spinal implants, fixation systems, biologics, software for surgical planning, navigation and imaging solutions, magnetically adjustable implant systems for spine and orthopedics, and intraoperative neuromonitoring technology and service offerings. With more than \$1 billion in net sales, NuVasive has approximately 2,700 employees and operates in more than 50 countries serving surgeons, hospitals, and patients. For more information, please visit www.nuvasive.com.



nView Medical

nView medical, based in Salt Lake City, UT, is a startup whose mission is to make surgery safer, faster, and consistently accurate. nView develops imaging systems, bringing breakthrough AI solutions for image creation, image processing, and image visualization to surgery. nView medical backers include; the National Science Foundation (NSF), the National Institutes of Health (NIH), the State Of Utah, the National Consortium for Pediatric Device Innovation, MedTech Innovator, Dr. Kevin Foley, MD, and Fusion Fund.



NYRC Brace™

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. The NYRC Brace™ is a highly customized brace manufactured with the most advanced CAD/CAM technologies that helps scoliosis patients in ways that other devices cannot. It has been developed to provide, for each case, the most reliable and effective results during the conservative treatment of idiopathic scoliosis.



OrthoPediatrics Corp.

Founded in 2006, OrthoPediatrics is an orthopedic company focused exclusively on advancing the field of pediatric orthopedics. As such it has developed the most comprehensive product offering to the pediatric orthopedic market to improve the lives of children with orthopedic conditions. OrthoPediatrics currently markets 35 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. OrthoPediatrics' global sales organization is focused exclusively on pediatric orthopedics and distributes its products in the United States and 44 countries outside the United States. For more information, please visit www.orthopediatrics.com.



Orthofix Medical Inc.

Orthofix Medical Inc. is a global medical device and biologics company with a spine and orthopaedics focus. The Company's mission is to deliver innovative, quality-driven solutions as we partner with health care professionals to improve patients' lives.



Pacira BioSciences, Inc.

Pacira BioSciences, Inc. (Nasdaq: PCRX) is the industry leader in its commitment to non-opioid pain management and regenerative health solutions to improve patients' journeys along the neural pain pathway. The company's long-acting local analgesic, EXPAREL® (bupivacaine liposome injectable suspension) was commercially launched in the United States in April 2012. EXPAREL utilizes DepoFoam®, a unique and proprietary delivery technology that encapsulates drugs without altering their molecular structure and releases them over time. In April 2019, Pacira acquired the iovera® system, a handheld cryoanalgesia device that delivers precise, extreme cold to targeted nerves. To learn more about Pacira, visit www.pacira.com.



Paragon 28®

Paragon 28® was established in 2010 to address unmet and under-served needs of the foot and ankle community. We are dedicated to creating tailored solutions and tools to improve the treatment of even the most difficult foot and ankle conditions. Paragon 28® operates under the following principles: inclusion and respect of individual surgeon's preferences, creative innovation, high-quality, cost-effective implants, and a strong belief that through research and innovation, we can create new and improved solutions to the challenges faced by foot and ankle specialists.



Pediatric Orthopaedic Practitioners Society POPS

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. The 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 developed in collaboration with orthopedic surgeons from around the world.



Setting Scoliosis Straight

The Surgeon Performance Program (SPP) Quality Improvement initiative is a free registry program that offers surgeons the ability to track and assess cases to optimize performance and improve patient care through dashboard reporting. Participants easily enter standardized, minimal datasets collected during routine care in a web-based system in order to receive dashboard reports, which reflect the individual's position among a comparative cohort in various practice areas in any/all optional modules, including: Idiopathic Scoliosis, Neuromuscular Scoliosis, Spondylolisthesis and Anterior Tethering. SPP is featured in US News & World Report's survey for ranking hospitals and individuals are eligible to receive 10 SAE credits toward ABOS MOC requirements for each year of participation in SPP. We would love to help you get involved and invite you to visit us or email mlee@ssshsg.org for more information!



Stryker

We are a global leader of complex spine and minimally invasive solutions focused on achieving three-dimensional Total Body Balance.

Our spine business unit offers one of the most comprehensive and diverse product portfolios, including our leading 3D-printed technologies, enabling surgeons to provide their patients with treatment options.

Our products include implants, instruments, and biologic solutions for the cervical, thoracic and lumbar spine.



WishBone Medical

WishBone Medical is a global pediatric orthopedic company committed to providing anatomically appropriate implants and instruments in single-use, sterile-packed procedure kits that are designed to prevent infection, reduce overall costs for customers, and achieve the best outcomes for children everywhere. Offering a comprehensive "head-to-toe" product portfolio, WishBone works to raise industry standards by equipping surgeons with proper solutions to safely treat their patients who are still growing... Because kids are not just little adults.



Zimmer Biomet

Zimmer Biomet Spine is a leader in restoring mobility, alleviating pain, and improving the quality of life for patients around the world by delivering surgeons a comprehensive portfolio of quality spine technologies and procedural innovation, best-in-class training, and unparalleled service via a network of responsive team members and sales professionals.

ePoster #1

Open Hip Reduction with Simultaneous Ligamentum Teres Reconstruction: Short-term Results of a Novel Technique in the Management of Developmental Hip Dysplasia.

*Matthew Glazier, MD; Kevin Klingele, MD; Craig Smith, MD
Nationwide Children's Hospital*

ePoster #2

Discordance in Current Procedural Terminology Coding for Pediatric Orthopaedic Surgeries Between Residents and Attending Surgeons

*George Wolf, MD; Erin Bushong, RN; Ryan O'Leary, BA; Nicholas Tranchitella, BS; Charles Johnson, MD; Sara Van Nortwick, MD; Matthew Dow, MD; Robert Murphy, MD
Medical University of South Carolina*

ePoster #3

Can Preoperative Labs Predict Perioperative Morbidity and Mortality in Adolescent Idiopathic Scoliosis?

*John Stelzer, MD, MS; Cam Kia, MD; Ian Wellington, MD; Mark Lee, MD
Connecticut Children's Medical Center*

ePoster #4

Is There a Relationship Between the Age Of Initiation of Treatment For Hip Dysplasia With Pavlik Harness and The Presence of Residual Dysplasia?

*Francesca Moller, MD; Ismael Cañete Campos, MD; María Jesús Figueroa Gatica, MD; Renato , MD; Catalina Vidal Olate, PT; María Angélica Ibañez Leon, MD; Felipe Hodgson Ovalle, MD
Pontificia Universidad Catolica de Chile*

ePoster #5

Too Hot to Handle: How Does Blade Type or Wear Effect Blade Temperature?

*Michael Stevens, MD; Brandon Collofello, MD; Zeeshan Akhtar, MD; Vincent Prusick, MD
University of Kentucky*

ePoster #6

Magnetic Resonance Imaging Findings in Patients with Presumed Adolescent Idiopathic Scoliosis Scheduled for Posterior Spine Fusion Surgery

*Sumeet Garg, MD; Hannah Darland, BA; Brenda Sanchez, BS; Patrick Carry, MS
Children's Hospital Colorado*

ePoster #7

The Effect of the COVID-19 Pandemic on Body Mass Index (BMI) Among Pediatric Patients Seeking Musculoskeletal Care

*Hayley Sacks, MD; Utkarsh Anil, MD; Charles Lin, MD; Cordelia Carter, MD
NYU Langone*

ePoster #8

Tibial Spine Fracture vs Anterior Cruciate Ligament: Dynamic Risk Factors

*Kathleen Maguire, MD; Patrick England, BA; Joseph Yellin, MD; Michael Carter, BS; Ryan Guzek, BS
Children's Hospital of Philadelphia*

ePoster #9

Prevalence and Clinical Features of Bilateral Osteochondritis Dissecans (OCD) of the Knee in Pediatric and Adolescent Patients Presenting with Unilateral Symptoms

*Joseph Yellin, MD; Robert Tysklind, MD; Zaamin Hussain, MD; Evan Zheng, MD; Benton Heyworth, MD; Mininder Kocher, MD, MPH
Boston Children's Hospital*

ePoster #10

Pediatric Olecranon Fractures: Uncommon but Noteworthy Injuries

*Chunho Chen, MD; Todd Milbrandt, MD; Noelle Larson, MD
Mayo Clinic*

ePoster #11

Clinical Utility of a Skeletal Dysplasia Gene Panel Testing Program for the Identification and Management of Diseases Requiring Orthopedic Management

*Guillermo Seratti, MD; William Mackenzie, MD; Cathleen Raggio, MD; Klane White, MD; Tiffany Yar Pang, MS; Sarah Poll, PhD; Heather McLaughlin, MD
BioMarin Pharmaceutical, INC*

ePoster #12

Trends in Pediatric ACL Reconstruction: The Impact of COVID-19

*Theodore Ganley, MD; Sara Kiani, BA; Divya Talwar, PhD, MPH; Nathan Houlihan, BS
Children's Hospital of Philadelphia*

ePoster #13

Minimizing Risk of Vascular Injury: Anatomical Study of the Popliteal Artery in the Pediatric Knee

Frederick Mun; Sukrit Suresh, MBBS; Majd Marrache, MD; Kishna Suresh, BS; Ijezie Ikwuezunma, BS, BA; Jay Lee, MD

Johns Hopkins University

ePoster #14

Vascular Safe Zone During Distal Femur Percutaneous Pinning

Gabrielle Allred; Jenna Feldman, MD; Marty Herman, MD, Dustin Greenhill, MD

Drexel University College of Medicine

ePoster #15

Prevalence of Over-the-Counter Pain Medication Use Among High School Volleyball Players

Grant Quilling, MD; Pam Lang, MD; Kenneth Lee, MD

University of Wisconsin School of Medicine and Public Health

ePoster #16

Intervertebral Disc Health Following Vertebral Body Tethering for Adolescent Idiopathic Scoliosis

Taylor Jackson, MD; Smitha Mathew, MBBS; Todd Milbrandt, MD; A. Noelle Larson, MD

Mayo clinic

ePoster #17

Cost-Effectiveness of Intertrochanteric Osteotomy Versus Total Hip Arthroplasty in Children with Severe Slipped Capital Femoral Epiphysis

Olivia de Araujo, BS; Chinmay Paranjape, MS; Daniel Bracey, MD; Anna Vergun, MD

UNC School of Medicine

ePoster #18

Vitamin D Supplementation Amongst Pediatric Trauma & Orthopaedic Patients

Lara McMillan, MBBCh, BSc (Hons), PgDip; Clare Carpenter, MD, FRCS (Tr&Orth)

Cardiff & Vale University Health Board

ePoster #19

Pre-operative Psychosocial Assessment in Pediatric Patients with Cerebral Palsy Improves Hospital Quality Metrics

Denver Burton, MD; Tolulope Banjo, BS; Carolyn Sewell Roberts, BS; Josedejesus Salazar-Torres, BS; Nancy Lennon, DPT; Elizabeth Gillooly, BS; Michael Wade Shrader, MD

MedStar Georgetown Department of Orthopaedics

ePoster #20

Vertebral Body Tethering Versus Posterior Spinal Fusion Surgery for Skeletally Immature Patients: A Matched Case Control Study at 2 Year Follow-up

Smitha Matthew, MBBS; John Hargiss, BS; Todd Milbrandt, MD; Anthony Stans, MD; William Shaughnessy, MD; A. Noelle Larson, MD

Mayo Clinic

ePoster #21

Prevalence and Epidemiological Description of Clubfoot at King Saud Medical City Riyadh, Saudi Arabia

Jameel Fakeeha, FACHARZT; Abdullah Alessa, MD; Musaad Alkhalidi, MBBS; Mohammed Alshathri, MBBS; Abdulaziz Althunayyan, MBBS

King Saud Medical City

ePoster #22

A Novel Technique in the Treatment of Pediatric Distal Radius-Ulna Metaphyseal Fractures

Richard Biama, MD; Harjot Uppal, MBA

Albany Medical College

ePoster #23

Kapandji Technique for the Treatment of Pediatric Distal Radius Fractures

Daniel Badin, MD; R Jay Lee, MD

Johns Hopkins University

ePoster #24

Minimizing Risk of Neurovascular Injury: Anatomical Study of Hunter's Canal in the Pediatric Knee

Sukrit Suresh, MBBS; Frederick Mun, MD; Caleb Gottlich, MD; Heath Gould, MD; Erin Honcharuk, MD; R. Jay Lee, MD

Johns Hopkins Hospital

ePoster #25

Stacked 1/3 Tubular Plates for Fixation of Pediatric Forearm Fractures: A Biomechanical Study

Benjamin Cooper, MD, MS; Alexander Wendling, MD; Sharon Isaacs-Pullins, ME; Joel White, MS; Steven Hollenbeck, MD, MPT
University of Kansas - Wichita, Orthopaedic Surgery Residency Program

ePoster #26

The Atypical Clubfoot: Is It Doomed from The Start?

Rob Farley, BS; Katherine Rosenwasser, MD; Nickolas Nahm, MD; John Herzenberg, MD
Sinai Hospital of Baltimore

ePoster #27

Was There a Drop in the Incidence of Osteomyelitis and Septic Arthritis During the COVID-19 Pandemic?

Karim Masrouha; Peter Principe, BS; Cordelia Carter, MD
NYU Langone Health

ePoster #28

Clinically Relevant Variations in Surgical Screw Properties

Nathan Chaclas; Keith Grega; Mark Seeley, MD; Benjamin Wheatley, PhD; Maxwell Vogel, MD; Alexander Mayers, MD
Geisinger Health System

ePoster #29

Decreasing Radiation Exposure After Operative Supracondylar Humerus Fractures

Matthew Bauer, MD; Michael Flood, BS; Matthew Sullivan, MD
SUNY Upstate

ePoster #30

Treatment of Adolescent Clavicle Fractures: A Prospective, Observational Study

Erin Pichiotino, MD, MPH; Christopher Bray, MD; David Lazarus, MD; Michael Beckish, MD; Stephanie Tanner, MS; Rebecca Snider, BS; Kayla Pham, BS
Prisma Health Upstate

ePoster #31

Pediatric Hip Ultrasound, The Posterior Lip View Revisited
Football Vs Basketball View

Jeffrey Farber, MD; Joel Farber, BS; Devon Gurnett, MSOM, LAT, ATC
Iowa Orthopedics

ePoster #32

Lower Trapezius Tendon Transfer for Brachial Plexus Birth Palsy

Courtney Baker, MD; William Shaughnessy, MD; Alexander Shin, MD; Kyle Robinson, BS
Mayo Clinic

ePoster #33

Assessment of Clinical and Functional Outcomes of Treating Clinically Diagnosed Plica Syndrome in a Pediatric Population

John Holbert, MD; Mark Seeley, MD; Brad Garcia, BS
Geisinger Health System

ePoster #34

Evaluating Postoperative Immobilization Following Hip Reconstruction in Children with Neuromuscular Conditions

Kevin Cho; Aribah Shah, BS; Evan Sheppard, MD; Sean Tabaie, MD
Children's National Hospital

ePoster #35

Barriers to Access Faced by Non-English-Speaking Families of Children with Cerebral Palsy

Christina Herrero, MD; Eduardo Del Rosario, Mara Karamitopoulos, MD; David Bloom, MD
NYU Langone Health

Orlando Visitor Center

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Dining & Entertainment Districts

<https://www.visitorlando.com/en/things-to-do/restaurants>

Orlando is a culinary hot spot with new award-winning restaurants and celebrity chefs, such as Wolfgang Puck, Todd English and Emeril Lagasse and now Chef Morimoto, that cater to visitors from across the globe. With over 5,000 restaurants you'll find an extensive menu from fine dining and international eateries to casual cafes and chic wine bars, there's something for every taste or budget. The destination has six distinctive dining districts including the Convention District (I-Drive), Restaurant Row, Universal CityWalk®, Disney Springs™, Downtown Orlando, and charming Winter Park.

Vibrant Nightlife

<https://www.visitorlando.com/en/things-to-do/nightlife-and-entertainment>

From casually sipping wine and enjoying a leisurely cigar at a trendy outdoor lounge, to dancing at a high-energy club and checking out a rock band at a live venue, Orlando provides attendees with nearly unlimited nighttime opportunities. You can see live music performances at the House of Blues at Disney Springs™ (formally Downtown Disney®) and Hard Rock Live at Universal CityWalk®. Experience mind-bending entertainment with the La Nouba™ by Cirque du Soleil® or the Blue Man Group. Discover a modern, big-city nightlife scene in downtown Orlando that includes dozens of dance clubs, bars, restaurants, and live music venues.

Transportation

Taxis, shuttle vans, private car pick-ups and ride-share services such as Uber and Lyft are available just outside the door on the baggage claim level at both Orlando International Airport (MCO) and Orlando Sanford International Airport (SFB).



Loews Hotel Guest Benefits

Get More Rides, More Often

When you stay at Loews Royal Pacific Resort, you'll receive free* Universal Express Unlimited™ to skip the regular lines at most popular rides and attractions at Universal Studios Florida™ and Universal's Islands of Adventure™, including The Amazing Adventures of Spider-Man®, Despicable Me Minion Mayhem™ and now The Wizarding World of Harry Potter™. That's a value of \$129.99 per person, per day. Valid theme park admission required.

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Waterways, roads and walking paths connect this Preferred resort hotel to Universal Studios Florida™, Universal's Islands of Adventure™ and Universal CityWalk™. Guests of Premier and Preferred on-site hotels can get around easily with complimentary water taxis and shuttle services. Universal's Volcano Bay™ is accessible only by complimentary shuttle.

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<https://www.visitorlando.com/>

<https://www.citywalkhollywood.com/>



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- Universal CityWalk**
- Disney Springs**

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

Vision: A world with optimal musculoskeletal health for all children.

POSNA Membership Benefits

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

- Reduced registration fees for POSNA Annual Meeting and International Pediatric Orthopaedic Symposia (IPOS®)
- Opportunity to serve as faculty and present at POSNA Annual Meeting, Pre-Course, and IPOS®
- Access to the POSNA Job Board
- Ability to participate in the POSNA Traveling Fellowship in conjunction with the European Paediatric Orthopaedic Society (EPOS), the Asia Pacific Pediatric Orthopaedic Society (APPOS), and the Sociedad Latin America Ortopedia y Traumatologia Infantil (SLAOTI). For more information, please visit posna.org/Resources/Traveling-Fellowship
- Access to the POSNA member directory
- Leadership opportunities: Have a voice in over 40 POSNA committees including Education, Advocacy, Quality, Safety and Value Initiative, Mentorship and more. Additionally, members are eligible to be elected to serve on the POSNA Board of Directors
- Complimentary online access to all current and past issues of the Journal of Pediatric Orthopaedics (JPO), the source for the best research and up-to-date treatments of musculoskeletal problems in children.
- Access to JPOSNA (the Journal of the Pediatric Orthopaedic Society of North America): an open access online journal focusing on pediatric orthopaedic conditions, treatment, and technology
- Resources on issues such as health equity, culturally competent care, mentorship, and unconscious bias to equip our members with skills and knowledge needed to deliver the highest quality care to our diverse patient populations

Apply Today at posna.org

Join over 1,500+ members in one of the most diverse orthopaedic subspecialty societies!

POSNA Education & Resources

- POSNA Annual Meeting
- IPOS® (International Pediatric Orthopaedic Symposium)
- *JPOSNA (Journal of the Pediatric Orthopaedic Society of North America)*
- POSNA Mentorship Program
- POSNAcademy - Peer Reviewed Pediatric Orthopaedic Video Learning
 - Webinars/Tutorials
 - Industry Education Channel
 - Podcasts
- OrthoKids – A website dedicated to kids and parents to learn about pediatric orthopaedic conditions
- Opportunity for Global Outreach

POSNA Research

- POSNA funded Research Grants
- Industry funded Research Grants
- Foundation funded Awards

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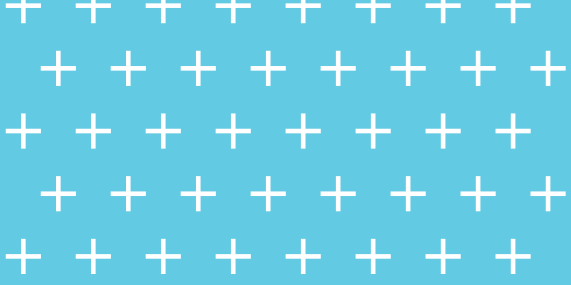
orthoKids

PEDIATRIC ORTHOPAEDIC SOCIETY
OF NORTH AMERICA

OrthoKids is the website for kids and parents to learn about pediatric orthopaedic conditions, injury prevention, and treatment. Everything on OrthoKids is provided by members of the Pediatric Orthopaedic Society of North America (POSNA), so parents and kids know that this is information that they can trust!



orthokids.org



Save the Date

Future POSNA Annual Meetings

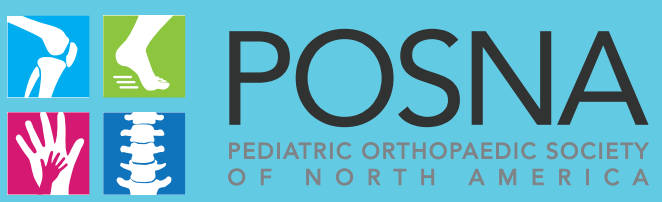
May 11–14, 2022
Vancouver, BC, Canada
April 26–29, 2023
Nashville, TN

Future IPOS® Meetings

December 6–10, 2022
Orlando, FL
December 5–9, 2023
Orlando, FL

EPOSNA (Combined POSNA and EPOS Meeting)

May 7–11, 2024
Washington, D.C.



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