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
# TABLE OF CONTENTS

- Acknowledgments ................................................................. 4
- General Meeting Information
  - Faculty .................................................................................. 5
  - About POSNA ......................................................................... 6
  - Learning Objectives ................................................................. 6
  - Accreditation .......................................................................... 6
  - AMA Credit Designation ......................................................... 6
  - Safety Information .................................................................. 7
- Policies ..................................................................................... 9
- Schedule at a Glance ................................................................. 10
- Industry Spotlight Sessions ...................................................... 13
- IPOS® - Craft Your Own Adventure (Breakdown by Topic) .......... 14
- IPOS® by Postgraduate Year ....................................................... 16
- Meeting Information ................................................................. 17
- Registration and Housing ......................................................... 19
  - Registration Hours ................................................................. 19
  - Exhibit Hall Hours ................................................................. 19
  - Speaker Ready Room Hours ................................................. 19
- Meeting Schedule
  - Detailed Schedule (Tuesday) .................................................. 22
  - Detailed Schedule (Wednesday) ............................................. 23
  - Detailed Schedule (Thursday) ............................................... 29
  - Detailed Schedule (Friday) ................................................... 36
  - Detailed Schedule (Saturday) ................................................. 42
- Saturday, Fellowship Education Forum .................................... 46
- Floorplan .................................................................................. 47
- Exhibitors .................................................................................. 48
- ePosters .................................................................................... 53
- Things to do in Orlando ............................................................ 56
- POSNA Membership ................................................................. 58
The Pediatric Orthopaedic Society of North America gratefully acknowledges the following for their generous financial support in 2021.

**Double Diamond Level ($150,000 +)**
- Medtronic
- OrthoPedeircs
- Stryker
- Zimmer Biomet

**Diamond Level ($100,000-$149,999)**
- DePuy Synthes

**Platinum Level ($75,000-$99,000)**
- NuVasive
- Orthofix

**Gold Level ($50,000-$74,999)**
- Shriners Hospitals for Children

**Silver Level ($20,000-$49,999)**
- Arthrex, Inc.
- C-Pro Direct Ltd
- Globus Medical
- MD Orthopaedics
- Pacira BioSciences, Inc.
- Pega Medical

**Bronze Level ($1,000-$19,999)**
- 7D Surgical
- Biedermann Motech
- Children’s Healthcare of Atlanta
- Nemours Children’s Health
- New York-Presbyterian
- Stanford Children’s Health

*Provided an Educational Grant for IPOS®*
## 2021 IPOS® Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lindsay Andras, MD*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alexandre Arkader, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Donald Bae, MD*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laurel Blakemore, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michelle Caird, MD*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pablo Castañeda, MD*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Robert Cho, MD, FAAOS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jon Davids, MD*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dennis Devito, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Craig Ebersohn, MD*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eric Edmonds, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Henry Ellis, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nicholas Fletcher, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>John (Jack) Flynn, MD*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steven Frick, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Theodore Ganley, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jose Herrera-Soto, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>John Herzenberg, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Christine Ho, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Robert Kay, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Derek Kelly, MD*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mininder Kocher, MD, MPH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scott Kozin, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Noelle Larson, MD*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scott Luhmann, MD*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>William Mackenzie, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Todd Milbrandt, MD*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vincent Mosca, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peter Newton, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L. Reid Nichols, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kenneth Noonan, MD, MHCDS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eduardo Novais, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Matthew Oetgen, MD, MBA*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dror Paley, MD, FRCSC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jonathan Phillips, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>David Podeszwa, MD*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wudbhav (Woody) Sankar, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jeffrey Sawyer, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jonathan Schoenecker, MD, PhD*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suken Shah, MD*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kevin Shea, MD*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benjamin Shore, MD, MPH, FRCSC*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ernest Sink, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>David Skaggs, MD, MMM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daniel Sucato, MD, MS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vishwas Talwalkar, MD, FAAOS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bryan Tompkins, MD*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michael Vitale, MD, MPH*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peter Waters, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jennifer Weiss, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ira Zaltz, MD*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Erica Zepeda, MSN, APRN, CPNP*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maryse Bouchard, MD</td>
<td>INTERNATIONAL</td>
<td></td>
</tr>
<tr>
<td>Firoz Miyanji, MD, FRCSC</td>
<td>FACULTY</td>
<td></td>
</tr>
<tr>
<td>Kishore Mulpuri, MBBS, MHSc, FRCSC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stefan Parent, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Christof Radler, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thomas Wirth, MD, PhD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jennifer Beck, MD</td>
<td>INSTRUCTORS</td>
<td></td>
</tr>
<tr>
<td>Brian Brighton, MD, MPH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jeanne Franzoni, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sumeet Garg, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jennifer Laine, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Raymond Liu, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thomas McPartland, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wendy Moon, MS, APRN, PNP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valerie Parrish, PA-C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scott Rosenfeld, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Julie Samora, MD, PhD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M. Wade Shrader, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mauricio Silva, MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amanda Whitaker, MD</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*2021 IPOS® Advisory Board
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.

FDA Statement (United States)
Some drugs or medical devices demonstrated at IPOS® may not have been cleared by the FDA or have been cleared by the FDA for specific purposes only. The FDA has stated that it is the responsibility of the physician to determine the FDA clearance status of each drug or medical device he or she wishes to use in clinical practice. 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.

Safety Information
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 great imaging

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

Learn more at stryker.com/airo
No Smoking Policy
Smoking is not permitted during any meeting or event.

Privacy Policy – Use of Personal Information
IPOS® registration lists, including the registrant’s name and postal mailing address are provided to POSNA’s sponsors as a sponsor benefit. No financial or other personal identifying information is disclosed. POSNA takes reasonable steps to ensure that our sponsors protect your information on POSNA's behalf. Please see the POSNA website at https://posna.org/Resources/Privacy-Policy for further details regarding the Privacy Policy.

No Cameras or Video Cameras
No cameras or video recorders are allowed in any of the sessions or session rooms.

Reproduction Policy
POSNA reserves all rights to materials presented at IPOS®, including ePosters. Reproductions of any kind, by any person or entity, without prior written permission from POSNA, are strictly prohibited. Prohibited reproductions include, but are not limited to, audiotapes, videotape, and/or still photography. Cameras or video cameras may not be used in any portion of the scientific sessions. Persons violating this policy may have their badge confiscated and be escorted from the meeting. No unapproved surveys, handouts, or literature may be distributed at the meeting.

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

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

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration</td>
<td>3:00 PM - 7:00 PM</td>
<td>Oceana Grand 6-7</td>
</tr>
<tr>
<td>Resident Scholarship</td>
<td>4:00 PM - 5:20 PM</td>
<td>Oceana Grand 6-7</td>
</tr>
<tr>
<td>Recipient Case Presentations</td>
<td></td>
<td>Oceana Grand 6-7</td>
</tr>
<tr>
<td>Career Planning and Professional Development for Residents and Fellows</td>
<td>5:20 PM - 6:30 PM</td>
<td>Oceana Grand 6-7</td>
</tr>
<tr>
<td>Pre-Course Network Reception</td>
<td>6:30 PM - 6:45 PM</td>
<td>Oceana Foyer</td>
</tr>
<tr>
<td>Industry Sponsored Pre-Course Sponsored by Orthopediatrics</td>
<td>6:45 PM - 8:00 PM</td>
<td>Oceana Grand 1-2</td>
</tr>
<tr>
<td>Industry Sponsored Pre-Course Sponsored by Zimmer Biomet</td>
<td>6:45 PM - 8:00 PM</td>
<td>Oceana Grand 3-5</td>
</tr>
<tr>
<td>Industry Sponsored Cocktail Reception</td>
<td>8:00 PM - 9:00 PM</td>
<td>Oceana Grand 8-10</td>
</tr>
<tr>
<td>Concurrent Session 1 - Young Children with Scoliosis - Modern Techniques for Controlling the Curve</td>
<td>1:00 PM - 3:00 PM</td>
<td>Oceana Grand 6-7</td>
</tr>
<tr>
<td>Break &amp; Exhibits</td>
<td>3:00 PM - 3:20 PM</td>
<td>Coral Sea</td>
</tr>
<tr>
<td>Industry Spotlight Session 1: Arthrex Inc.</td>
<td>3:20 PM - 4:30 PM</td>
<td>Timor Sea</td>
</tr>
<tr>
<td>Industry Spotlight Session 1: DePuy Synthes</td>
<td>3:20 PM - 4:30 PM</td>
<td>Banda Sea</td>
</tr>
<tr>
<td>Industry Spotlight Session 1: NuVasive</td>
<td>3:20 PM - 4:30 PM</td>
<td>Pacifica 8-10</td>
</tr>
<tr>
<td>Industry Spotlight Session 1: Orthofix</td>
<td>3:20 PM - 4:30 PM</td>
<td>Java Sea</td>
</tr>
<tr>
<td>Industry Spotlight Session 2: OrthoPedicis</td>
<td>3:20 PM - 4:30 PM</td>
<td>Coral Sea</td>
</tr>
<tr>
<td>Industry Spotlight Session 2: POPS: Orthopaedic Pearls - Empowering the APP for Success</td>
<td>4:40 PM - 5:50 PM</td>
<td>Timor Sea</td>
</tr>
<tr>
<td>CME Breakout 1 - Essentials of Pediatric Orthopaedics I</td>
<td>10:30 AM - 12:00 PM</td>
<td>Pacifica 11-12</td>
</tr>
<tr>
<td>CME Breakout 1 - Gait 1: CP - Understanding Gait Analysis and Common Gait Pathologies (Flipped Classroom)</td>
<td>10:30 AM - 12:00 PM</td>
<td>Java Sea</td>
</tr>
<tr>
<td>CME Breakout 1 - Unlocking the Secrets of Managing Perthes Disease</td>
<td>10:30 AM - 12:00 PM</td>
<td>Pacifica 1-3</td>
</tr>
<tr>
<td>CME Breakout 1 - Paths to Wild Success in Pediatric Orthopaedics</td>
<td>10:30 AM - 12:00 PM</td>
<td>Oceana Grand 3-5</td>
</tr>
<tr>
<td>CME Breakout 1 - A Case-Based Exploration of the Management of Blount’s Disease (Flipped Classroom)</td>
<td>10:30 AM - 12:00 PM</td>
<td>Pacifica 8-10</td>
</tr>
<tr>
<td>CME Breakout 1 - POPS: Orthopaedic Pearls - Empowering the APP for Success</td>
<td>10:30 AM - 12:00 PM</td>
<td>Hibiscus</td>
</tr>
<tr>
<td>Lunch with IPOS® Directors</td>
<td>12:00 PM - 1:00 PM</td>
<td>IPOS Lounge</td>
</tr>
<tr>
<td>Lunch &amp; Exhibits</td>
<td>12:00 PM - 1:00 PM</td>
<td></td>
</tr>
<tr>
<td>Ponseti On The Go Sponsored by: MD Orthopaedics</td>
<td>1:00 PM - 2:00 PM</td>
<td>Philippine Sea</td>
</tr>
<tr>
<td>Concurrent Session 1 - From Head to Toes - A Case-Based Discussion of Skeletal Dysplasia</td>
<td>1:00 PM - 3:00 PM</td>
<td>Pacifica 1-3</td>
</tr>
</tbody>
</table>

## Wednesday, December 8

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration</td>
<td>7:00 AM - 5:00 PM</td>
<td></td>
</tr>
<tr>
<td>Breakfast &amp; Exhibits</td>
<td>7:00 AM - 8:00 AM</td>
<td></td>
</tr>
<tr>
<td>General Session 1 - The Four Questions of Trauma: It’s All About the Periosteum</td>
<td>8:00 AM - 10:00 AM</td>
<td>Oceana Grand 6-7</td>
</tr>
<tr>
<td>CME Breakout 1 - Essentials of Pediatric Orthopaedics I</td>
<td>10:10 AM - 10:30 AM</td>
<td>Pacifica 11-12</td>
</tr>
<tr>
<td>CME Breakout 1 - Gait 1: CP - Understanding Gait Analysis and Common Gait Pathologies (Flipped Classroom)</td>
<td>10:30 AM - 12:00 PM</td>
<td>Java Sea</td>
</tr>
<tr>
<td>CME Breakout 1 - Unlocking the Secrets of Managing Perthes Disease</td>
<td>10:30 AM - 12:00 PM</td>
<td>Pacifica 1-3</td>
</tr>
<tr>
<td>CME Breakout 1 - Paths to Wild Success in Pediatric Orthopaedics</td>
<td>10:30 AM - 12:00 PM</td>
<td>Oceana Grand 3-5</td>
</tr>
<tr>
<td>CME Breakout 1 - A Case-Based Exploration of the Management of Blount’s Disease (Flipped Classroom)</td>
<td>10:30 AM - 12:00 PM</td>
<td>Pacifica 8-10</td>
</tr>
<tr>
<td>CME Breakout 1 - POPS: Orthopaedic Pearls - Empowering the APP for Success</td>
<td>10:30 AM - 12:00 PM</td>
<td>Hibiscus</td>
</tr>
<tr>
<td>Lunch with IPOS® Directors</td>
<td>12:00 PM - 1:00 PM</td>
<td></td>
</tr>
<tr>
<td>Lunch &amp; Exhibits</td>
<td>12:00 PM - 1:00 PM</td>
<td></td>
</tr>
<tr>
<td>Break &amp; Exhibits</td>
<td>10:10 AM - 10:30 AM</td>
<td></td>
</tr>
<tr>
<td>General Session 2 - Improving Care through Quality Assessment</td>
<td>9:30 AM - 11:30 AM</td>
<td>Oceana Grand 6-7</td>
</tr>
<tr>
<td>Lunch with IPOS® Directors</td>
<td>12:00 PM - 12:30 PM</td>
<td></td>
</tr>
<tr>
<td>Lunch &amp; Exhibits</td>
<td>12:00 PM - 12:30 PM</td>
<td></td>
</tr>
</tbody>
</table>

## Thursday, December 9

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration</td>
<td>7:00 AM - 4:00 PM</td>
<td></td>
</tr>
<tr>
<td>Breakfast &amp; Exhibits</td>
<td>7:00 AM - 8:00 AM</td>
<td></td>
</tr>
<tr>
<td>Industry Spotlight Session 3: DePuy Synthes Spine</td>
<td>8:00 AM - 9:10 AM</td>
<td>Pacifica 8-10</td>
</tr>
<tr>
<td>Industry Spotlight Session 3: OrthoPedicis</td>
<td>8:00 AM - 9:10 AM</td>
<td>Java Sea</td>
</tr>
<tr>
<td>Industry Spotlight Session 3: Pacira BioSciences, Inc.</td>
<td>8:00 AM - 9:10 AM</td>
<td>Timor Sea</td>
</tr>
<tr>
<td>Industry Spotlight Session 3: Stryker</td>
<td>8:00 AM - 9:10 AM</td>
<td>Coral Sea</td>
</tr>
<tr>
<td>Industry Spotlight Session 3: Stryker</td>
<td>8:00 AM - 9:10 AM</td>
<td></td>
</tr>
<tr>
<td>Break &amp; Exhibits</td>
<td>9:10 AM - 9:30 AM</td>
<td></td>
</tr>
<tr>
<td>General Session 2 - Improving Care through Quality Assessment</td>
<td>9:30 AM - 11:30 AM</td>
<td></td>
</tr>
<tr>
<td>Lunch with IPOS® Directors</td>
<td>11:30 AM - 12:30 PM</td>
<td></td>
</tr>
<tr>
<td>Lunch &amp; Exhibits</td>
<td>11:30 AM - 12:30 PM</td>
<td></td>
</tr>
<tr>
<td>Lunchtime Learning (Non-CME)</td>
<td>12:00 PM - 12:30 PM</td>
<td></td>
</tr>
</tbody>
</table>
### SCHEDULE AT A GLANCE

**Friday, December 10**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM - 3:00 PM</td>
<td>Registration</td>
</tr>
<tr>
<td>7:00 AM - 8:00 AM</td>
<td>Breakfast &amp; Exhibits</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>Concurrent Session 3 - Cerebral Palsy Hip and Spine: Challenges in Concomitant Management for the Non-Ambulant Child</td>
</tr>
<tr>
<td>8:00 AM - 10:00 AM</td>
<td>Concurrent Session 3 - The Pediatric Orthopaedic Educators Symposium: The Journey from Curriculum Design to Feedback-For our Learners and Ourselves</td>
</tr>
<tr>
<td>9:00 AM - 10:00 AM</td>
<td>Ponseti On The Go Sponsored by: MD Orthopaedics</td>
</tr>
<tr>
<td>10:00 AM - 10:20 AM</td>
<td>Break &amp; Exhibits</td>
</tr>
<tr>
<td>10:20 AM - 11:30 AM</td>
<td>Lunch &amp; Exhibits</td>
</tr>
<tr>
<td>11:30 AM - 12:30 PM</td>
<td>Lunchtime Learning (Non-CME)</td>
</tr>
<tr>
<td>12:30 PM - 2:30 PM</td>
<td>CME Breakout 3 - Essentials of Pediatric Orthopaedics III</td>
</tr>
<tr>
<td>12:30 PM - 2:30 PM</td>
<td>CME Breakout 3 - Managing Tibia Bowing in Children</td>
</tr>
<tr>
<td>12:30 PM - 4:30 PM</td>
<td>CME Breakout 3 - Hand &amp; Upper Extremity Flipped Classroom on Congenital Conditions</td>
</tr>
<tr>
<td>12:30 PM - 4:30 PM</td>
<td>CME Breakout 3 - Pelvic Osteotomy II: Triple Innominata Osteotomy and Pao (Hands-On Workshop)</td>
</tr>
<tr>
<td>12:30 PM - 4:30 PM</td>
<td>CME Breakout 3 - NOT the ACL - Meniscus Injuries &amp; Other Common Knee Pain Diagnoses in the Teen Athlete</td>
</tr>
<tr>
<td>12:30 PM - 4:30 PM</td>
<td>CME Breakout 3 - POPS: The Orthopaedic Escape Room (Hands-On and Team Building)</td>
</tr>
</tbody>
</table>

---

**Schedule continued on next page**
### SCHEDULE AT A GLANCE

**Saturday, December 11**

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

*SCHEDULE SUBJECT TO CHANGE*
<table>
<thead>
<tr>
<th>Industry Spotlight Session #1</th>
<th>Industry Spotlight Session #2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wednesday, December 8</strong></td>
<td><strong>Wednesday, December 8</strong></td>
</tr>
<tr>
<td><strong>3:20 PM - 4:30 PM</strong></td>
<td><strong>4:40 PM - 5:50 PM</strong></td>
</tr>
<tr>
<td><strong>Arthrex, Inc. - Coral Sea</strong></td>
<td><strong>Arthrex, Inc. - Coral Sea</strong></td>
</tr>
<tr>
<td>Surgical Interventions for the Adolescent Knee</td>
<td>Managing Pediatric ACL Ruptures</td>
</tr>
<tr>
<td><strong>Presenters:</strong> Kevin Shea, MD; Theodore Ganley, MD; Eric Edmonds, MD</td>
<td><strong>Presenters:</strong> Kevin Shea, MD; Theodore Ganley, MD; Eric Edmonds, MD</td>
</tr>
<tr>
<td><strong>DePuy Synthes - Timor Sea</strong></td>
<td><strong>DePuy Synthes - Timor Sea</strong></td>
</tr>
<tr>
<td>Pitfalls and Pearls for Proximal Femoral Osteotomies</td>
<td>Pediatric Femur Fracture Management</td>
</tr>
<tr>
<td><strong>Presenters:</strong> Ernest Sink, MD</td>
<td><strong>Presenters:</strong> Martin Herman, MD, PhD; Walter Samora, MD</td>
</tr>
<tr>
<td><strong>NuVasive - Banda Sea</strong></td>
<td><strong>Medtronic - Pacifica 11-12</strong></td>
</tr>
<tr>
<td>From Idiopathic to Complex: Tips and tricks to achieve better three-dimensional correction</td>
<td>The Evolving Role of AI, Navigation and Robotics in Pediatric Deformity</td>
</tr>
<tr>
<td><strong>Presenters:</strong> Robert Cho, MD; Lindsay Andras, MD</td>
<td><strong>Presenters:</strong> Grant Hogue, MD; Mark Erickson, MD; Noelle Larson, MD</td>
</tr>
<tr>
<td><strong>Orthofix - Pacifica 8-10</strong></td>
<td><strong>Orthofix - Pacifica 8-10</strong></td>
</tr>
<tr>
<td>Computer-Assisted Pre-Operative Planning, Tips and Tricks</td>
<td>Limb Lengthening with Fitbone - Experience with Adolescent Patients</td>
</tr>
<tr>
<td><strong>Presenters:</strong> David Podeszwa, MD; David Frumberg, MD; Philip McClure, MD</td>
<td><strong>Presenters:</strong> David Frumberg, MD; David Podeszwa, MD; Jan Rölfing, MD</td>
</tr>
<tr>
<td><strong>OrthoPediatrics - Java Sea</strong></td>
<td><strong>OrthoPediatrics - Java Sea</strong></td>
</tr>
<tr>
<td>Challenges, Decision-Making, and Solutions in Treating Neuromuscular Scoliosis</td>
<td>A Non-Fusion Treatment for AIS: Clinical Experience and Hands-on Demonstration</td>
</tr>
<tr>
<td><strong>Presenters:</strong> Scott Luhmann, MD; Chris Hardesty, MD</td>
<td><strong>Presenters:</strong> Tim Oswald, MD; Kevin Neal, MD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Industry Spotlight Session #3</th>
<th>Industry Spotlight Session #4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thursday, December 9</strong></td>
<td><strong>Friday, December 10</strong></td>
</tr>
<tr>
<td><strong>8:00 AM - 9:10 AM</strong></td>
<td><strong>10:20 AM - 11:30 AM</strong></td>
</tr>
<tr>
<td><strong>DePuy Synthes Spine - Pacifica 8-10</strong></td>
<td><strong>DePuy Synthes Spine - Pacifica 8-10</strong></td>
</tr>
<tr>
<td>Neuromuscular Scoliosis: Principles of Management and Complication Prevention</td>
<td>Treatment of AIS: Beyond the Basics</td>
</tr>
<tr>
<td><strong>Presenters:</strong> Paul Sponseller, MD; Jeffrey Sawyer, MD; Robert Cho, MD</td>
<td><strong>Presenter:</strong> Robert Cho, MD; John M. Flynn, MD; Noelle Larson, MD; Paul Sponseller, MD</td>
</tr>
<tr>
<td><strong>OrthoPediatrics - Java Sea</strong></td>
<td><strong>Globus Medical - Coral Sea</strong></td>
</tr>
<tr>
<td>Adolescent Femoral Nailing: From Common to Uncommon Uses</td>
<td>Current Indications and Practical Tips for the Treatment of Anterior Scoliosis</td>
</tr>
<tr>
<td><strong>Presenters:</strong> Eric Gordon, MD; Scott Rosenfeld, MD; Sean Tabaei, MD</td>
<td><strong>Presenters:</strong> Peter Newton, MD</td>
</tr>
<tr>
<td><strong>Pacira BioSciences, Inc. - Timor Sea</strong></td>
<td><strong>OrthoPediatrics - Java Sea</strong></td>
</tr>
<tr>
<td>Postsurgical Pain Management in Children-Achieving Opioid Minimization</td>
<td>Blount’s Disease: From Early to Late Stage and Modern Treatment Techniques</td>
</tr>
<tr>
<td><strong>Presenters:</strong> Peter Newton, MD</td>
<td><strong>Presenters:</strong> Kellie Leitch, MD; Craig Robbins, MD; Sean Tabaei, MD</td>
</tr>
<tr>
<td><strong>Stryker - Coral Sea</strong></td>
<td><strong>Pega Medical - Timor Sea</strong></td>
</tr>
<tr>
<td>Navigating the Pediatric Spine: Optimizing Safety and Workflow Efficiency</td>
<td>Proximal Femoral Osteotomies using a Novel Modular Blade - Plate</td>
</tr>
<tr>
<td><strong>Presenters:</strong> Brad Culotta, MD; Stephen George, MD</td>
<td><strong>Presenters:</strong> Kishore Mulpuri, MBBS, MHSc, FRCSC; Shawn Standard, MD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Industry Spotlight Session #4</th>
<th>Industry Spotlight Session #4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Friday, December 10</strong></td>
<td><strong>Friday, December 10</strong></td>
</tr>
<tr>
<td><strong>10:20 AM - 11:30 AM</strong></td>
<td><strong>10:20 AM - 11:30 AM</strong></td>
</tr>
<tr>
<td><strong>DePuy Synthes Spine - Pacifica 8-10</strong></td>
<td><strong>DePuy Synthes Spine - Pacifica 8-10</strong></td>
</tr>
<tr>
<td><strong>Globus Medical - Coral Sea</strong></td>
<td><strong>Globus Medical - Coral Sea</strong></td>
</tr>
<tr>
<td><strong>OrthoPediatrics - Java Sea</strong></td>
<td><strong>OrthoPediatrics - Java Sea</strong></td>
</tr>
<tr>
<td><strong>Pega Medical - Timor Sea</strong></td>
<td><strong>Pega Medical - Timor Sea</strong></td>
</tr>
</tbody>
</table>
IPOS® BY TOPIC

**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

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 Innominat 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

### 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
<table>
<thead>
<tr>
<th>Residents Postgraduate Years 1 – 4</th>
</tr>
</thead>
</table>
| **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 |

| 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 |

<table>
<thead>
<tr>
<th>Residents Postgraduate Years 1 – 5 and Fellows</th>
</tr>
</thead>
</table>
| **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 |

<table>
<thead>
<tr>
<th>Postgraduate Years 4 – 5 and Fellows</th>
</tr>
</thead>
</table>
| **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 to 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 |
Residents!
Special programming just for you, including:

- **Career Planning and Professional Development** – Perspectives and advice on handling the stuff you do not find in textbooks.

- **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.

**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.

Craft your own IPOS® adventure with over 40 breakout sessions featuring:
- Focused lectures and engaging case discussions
- Surgical skills demonstrations
- Hands-on technical workshops
- Industry-sponsored satellite sessions on cutting-edge techniques
- Flipped Classroom with small group discussions of cases
- Educators Session on how to teach and learn Pediatric Orthopaedic Surgery

**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.
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

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

**SHOW HOURS**

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday, December 7</td>
<td>3:00 PM – 7:00 PM</td>
</tr>
<tr>
<td>Wednesday, December 8</td>
<td>7:00 AM – 5:00 PM</td>
</tr>
<tr>
<td>Thursday, December 9</td>
<td>7:00 AM – 4:00 PM</td>
</tr>
<tr>
<td>Friday, December 10</td>
<td>7:00 AM – 3:00 PM</td>
</tr>
<tr>
<td>Saturday, December 11</td>
<td>7:30 AM – 10:30 AM</td>
</tr>
</tbody>
</table>

**Registration**
Sponsored by: Zimmer Biomet

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday, December 8</td>
<td>7:00 AM – 7:00 PM</td>
</tr>
<tr>
<td>Thursday, December 9</td>
<td>7:00 AM – 4:30 PM</td>
</tr>
<tr>
<td>Friday, December 10</td>
<td>7:00 AM – 3:00 PM</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday, December 8</td>
<td>7:00 AM – 7:00 PM</td>
</tr>
<tr>
<td>Thursday, December 9</td>
<td>7:00 AM – 4:30 PM</td>
</tr>
<tr>
<td>Friday, December 10</td>
<td>7:00 AM – 3:00 PM</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday, December 7</td>
<td>3:00 PM – 8:00 PM</td>
</tr>
<tr>
<td>Wednesday, December 8</td>
<td>7:00 AM – 6:00 PM</td>
</tr>
<tr>
<td>Thursday, December 9</td>
<td>7:00 AM – 4:30 PM</td>
</tr>
<tr>
<td>Friday, December 10</td>
<td>7:00 AM – 4:30 PM</td>
</tr>
<tr>
<td>Saturday, December 11</td>
<td>7:00 AM – 11:45 AM</td>
</tr>
</tbody>
</table>

**WiFi Information:**
IPOS® Conference WiFi: IPOS2021
Password: orlando2021

Remember to share your IPOS® experience by posting to social media using #IPOS2021.
Pre-planning with OrthoNext™ Software allows a virtual deformity analysis, providing physicians with a prospective view.

Discover the complete

JuniOrtho™
Pediatrics Solutions Portfolio
The intuitive and user friendly web-based TL-HEX Software is empowering all surgeons who want comprehensive support throughout pre/intra/post operative phases.

Visit us at Booth #14 and join our Industrial Symposia on December 8 at 3:20pm and 4:40pm.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM - 7:00 PM</td>
<td>Registration</td>
</tr>
<tr>
<td>4:00 PM - 5:20 PM</td>
<td>Resident Scholarship Recipient Case Presentations</td>
</tr>
<tr>
<td>5:20 PM - 6:30 PM</td>
<td><strong>Career Planning and Professional Development for Residents and Fellows</strong></td>
</tr>
<tr>
<td>5:20 PM – 5:55 PM</td>
<td>Habits for a Successful Pediatric Orthopaedic Career</td>
</tr>
<tr>
<td></td>
<td><strong>Introduction and Welcome</strong></td>
</tr>
<tr>
<td></td>
<td>Moderator: Michelle Caird, MD</td>
</tr>
<tr>
<td></td>
<td>How Do I Keep Getting Better as a Surgeon?</td>
</tr>
<tr>
<td></td>
<td>Presenter: Kevin Shea, MD</td>
</tr>
<tr>
<td></td>
<td>How Do I Teach in The Operating Room and Clinics?</td>
</tr>
<tr>
<td></td>
<td>Presenter: Craig Eberson, MD</td>
</tr>
<tr>
<td></td>
<td>How Can I Contribute to Discovery in Pediatric Orthopaedics?</td>
</tr>
<tr>
<td></td>
<td>Presenter: Jonathan Schoenecker, MD, PhD</td>
</tr>
<tr>
<td></td>
<td>How Do I Grow in Leadership Skills?</td>
</tr>
<tr>
<td></td>
<td>Presenter: Jeff Sawyer, MD</td>
</tr>
<tr>
<td>5:55 PM – 6:00 PM</td>
<td>Break</td>
</tr>
<tr>
<td>6:00 PM – 6:30 PM</td>
<td>Questions and Answers</td>
</tr>
<tr>
<td>6:30 PM - 6:45 PM</td>
<td>Pre-Course Networking Reception</td>
</tr>
</tbody>
</table>

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**
### General Session 1

**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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 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 | Update 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 1
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 1: 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, MBBS, MHSc, FRCSC

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*

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

#### 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*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30 AM - 10:34 AM</td>
<td>“Fake it ’Till You Make it”: Wild Success in the First 5 Years</td>
<td>Lindsay Andras, MD</td>
</tr>
<tr>
<td>10:35 AM - 10:39 AM</td>
<td>Finding Your Niche: Success in our Sub-Specialized World</td>
<td>Mininder Kocher, MD, MPH</td>
</tr>
<tr>
<td>10:40 AM - 10:44 AM</td>
<td>“Don’t Wait to be Noticed”</td>
<td>Eric Edmonds, MD</td>
</tr>
<tr>
<td>10:44 AM - 10:47 AM</td>
<td>Discussion</td>
<td></td>
</tr>
<tr>
<td>10:48 AM - 10:52 AM</td>
<td>Research Group Collaboration</td>
<td>Theodore Ganley, MD</td>
</tr>
<tr>
<td>10:53 AM - 10:57 AM</td>
<td>Moving to Become Chief</td>
<td>Todd Milbrandt, MD</td>
</tr>
<tr>
<td>10:58 AM - 11:02 AM</td>
<td>Getting a Degree</td>
<td>Peter Waters, MD</td>
</tr>
<tr>
<td>11:03 AM - 11:07 AM</td>
<td>Self-Study</td>
<td>John (Jack) Flynn, MD</td>
</tr>
<tr>
<td>11:07 AM - 11:11 AM</td>
<td>Discussion</td>
<td></td>
</tr>
</tbody>
</table>
CME Breakout Session 1 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

11:40 AM - 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  A Case-based Exploration of the Management of Blount’s Disease (Flipped Classroom)  
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

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

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 - 10:36 AM  Introduction and Case Presentation  
Moderator: Erica Zepeda, MSN, APRN, CPNP

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 1  
**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**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 PM - 1:20 PM</td>
<td>Debate: 4 year old 50 degree curve</td>
</tr>
<tr>
<td>1:00 PM - 1:05 PM</td>
<td>Nonoperative Strategies for Success: Casting and Bracing</td>
</tr>
<tr>
<td></td>
<td>Presenter: Bryan Tompkins, MD</td>
</tr>
<tr>
<td>1:06 PM - 1:11 PM</td>
<td>Start with Spine- or Rib-Based Growing Rods</td>
</tr>
<tr>
<td></td>
<td>Presenter: Laurel Blakemore, MD</td>
</tr>
<tr>
<td>1:12 PM - 1:17 PM</td>
<td>Sliding Screw Technique</td>
</tr>
<tr>
<td></td>
<td>Presenter: Scott Luhman, MD</td>
</tr>
<tr>
<td>1:18 PM - 1:23 PM</td>
<td>Brace First, Grow Modulation Later</td>
</tr>
<tr>
<td></td>
<td>Presenter: Stefan Parent, MD</td>
</tr>
<tr>
<td>1:23 PM - 1:33 PM</td>
<td>Discussion</td>
</tr>
<tr>
<td></td>
<td>Panelists: Bryan Tompkins, MD, Laurel Blakemore, MD, Scott Luhman, MD</td>
</tr>
<tr>
<td>1:34 PM - 1:49 PM</td>
<td>Preop Evaluation for Early Onset Scoliosis</td>
</tr>
<tr>
<td>1:34 PM - 1:39 PM</td>
<td>How to Optimize Medical Status</td>
</tr>
<tr>
<td></td>
<td>Presenter: Dennis Devito, MD</td>
</tr>
<tr>
<td>1:40 PM - 1:45 PM</td>
<td>Preoperative Imaging - What Studies Should be Ordered and How Do You Interpret Them?</td>
</tr>
<tr>
<td></td>
<td>Presenter: Sumeet Garg, MD</td>
</tr>
<tr>
<td>1:46 PM - 1:51 PM</td>
<td>Gadgets in EOS Imaging and Surgery: What do you need to know?</td>
</tr>
<tr>
<td></td>
<td>Presenter: David Skaggs, MD, MMM</td>
</tr>
<tr>
<td>1:51 PM - 2:00 PM</td>
<td>Discussion</td>
</tr>
<tr>
<td></td>
<td>Panelists: Dennis Devito, MD, Sumeet Garg, David Skaggs, MD</td>
</tr>
<tr>
<td>2:01 PM - 2:28 PM</td>
<td>MCGR: A User’s Guide</td>
</tr>
<tr>
<td>2:01 PM - 2:06 PM</td>
<td>Indications for Placing MCGR: Is There Any Role for Traditional Growing Rods?</td>
</tr>
<tr>
<td></td>
<td>Presenter: John (Jack) Flynn, MD</td>
</tr>
<tr>
<td>2:07 PM - 2:12 PM</td>
<td>How I Lengthen</td>
</tr>
<tr>
<td></td>
<td>Presenter: Robert Cho, MD, FAAOS</td>
</tr>
<tr>
<td>2:13 PM - 2:18 PM</td>
<td>When to Stop Lengthening and How to Successfully Perform ‘Final’ Fusion</td>
</tr>
<tr>
<td></td>
<td>Presenter: Suken Shah, MD</td>
</tr>
<tr>
<td>2:18 PM - 2:28 PM</td>
<td>Cases and Discussion</td>
</tr>
<tr>
<td></td>
<td>Panelists: John (Jack) Flynn, MD, Robert Cho, Suken Shah, MD</td>
</tr>
<tr>
<td>2:29 PM - 3:00 PM</td>
<td>Case-Based Approach to Congenital Scoliosis</td>
</tr>
<tr>
<td>2:29 PM - 2:33 PM</td>
<td>When and Why to Proceed with Hemivertebra Excision, Cases for Observation vs. Early Treatment</td>
</tr>
<tr>
<td></td>
<td>Presenter: Suken Shah, MD</td>
</tr>
<tr>
<td>2:34 PM - 2:38 PM</td>
<td>Case Example: How to Do a Hemivertebra Excision</td>
</tr>
<tr>
<td></td>
<td>Presenter: Suken Shah, MD</td>
</tr>
<tr>
<td>2:39 PM - 2:43 PM</td>
<td>Case-Based Approach to Congenital Kyphosis</td>
</tr>
<tr>
<td></td>
<td>Presenter: Jeffery Sawyer, MD</td>
</tr>
<tr>
<td>2:44 PM - 2:48 PM</td>
<td>How To Treat a Jumbled Spine</td>
</tr>
<tr>
<td></td>
<td>Presenter: Michael Vitale, MD, MPH</td>
</tr>
<tr>
<td>2:49 PM - 2:53 PM</td>
<td>Oblique Takeoff and Deformity at the Cervicothoracic Junction:</td>
</tr>
<tr>
<td></td>
<td>Case Examples</td>
</tr>
<tr>
<td></td>
<td>Presenter: Daniel Sucato, MD, MS</td>
</tr>
<tr>
<td>2:54 PM - 3:00 PM</td>
<td>Discussion</td>
</tr>
<tr>
<td></td>
<td>Moderator: A. Noelle Larson, MD</td>
</tr>
<tr>
<td>3:00 PM - 3:20 PM</td>
<td>Break and Exhibits</td>
</tr>
<tr>
<td>3:20 PM - 4:30 PM</td>
<td>Industry Spotlight Sessions- see Page 16 for details</td>
</tr>
<tr>
<td>4:40 PM - 5:50 PM</td>
<td>Industry Spotlight Sessions- see Page 16 for details</td>
</tr>
<tr>
<td>6:00 PM - 7:00 PM</td>
<td>Directors’ Welcome Reception</td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------------------------------------------</td>
</tr>
<tr>
<td>7:00 AM - 4:00 PM</td>
<td>Registration</td>
</tr>
<tr>
<td>7:00 AM - 8:00 AM</td>
<td>Breakfast and Exhibits</td>
</tr>
<tr>
<td>8:00 AM - 9:10 AM</td>
<td>Industry Spotlight Sessions-see Page 16 for details</td>
</tr>
<tr>
<td>9:10 AM - 9:30 AM</td>
<td>Break and Exhibits</td>
</tr>
</tbody>
</table>

### 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*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter(S)</th>
</tr>
</thead>
</table>
| 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 Spine Care Teams                                           |
| 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: Julie Samora, MD, PhD                                             |
| 11:30 AM - 12:30 PM | Lunch and Exhibits                                                   |                                                                             |
| 11:45 AM - 12:30 PM | Lunchtime 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 Eberson, MD**

1:51 PM - 2:00 PM

How to Manage a Busy Fracture Clinic

**Presenter: Mauricio Silva, 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

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

Welcome/Introduction

**Moderator: L. Reid Nichols, MD**

12:30 PM - 12:35 PM

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

Does Patient Specific Rod Contouring and Planning Software Improve Surgical Outcomes?

**Presenter: Robert Cho, MD, FAAOS**

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  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
Panelist: 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 - 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

Moderator: 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: Kevin Shea, 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*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:20 PM - 2:22 PM</td>
<td>Introduction</td>
<td>Donald Bae, MD</td>
</tr>
<tr>
<td>2:23 PM - 2:25 PM</td>
<td>Forearm Malunion Case</td>
<td>Christine Ho, MD</td>
</tr>
<tr>
<td>2:26 PM - 2:35 PM</td>
<td>Forearm Malunion Discussion</td>
<td>Christine Ho, MD, MD</td>
</tr>
<tr>
<td>2:36 PM - 2:40 PM</td>
<td>Forearm Malunion</td>
<td>Christine Ho, MD</td>
</tr>
<tr>
<td>2:41 PM - 2:43 PM</td>
<td>Chronic Monteggia Case</td>
<td>Scott Kozin, MD</td>
</tr>
<tr>
<td>2:44 PM - 2:53 PM</td>
<td>Chronic Monteggia Discussion</td>
<td>Scott Kozin, MD, MD</td>
</tr>
<tr>
<td>2:54 PM - 2:58 PM</td>
<td>Chronic Monteggia Technique</td>
<td>Scott Kozin, MD</td>
</tr>
<tr>
<td>2:59 PM - 3:01 PM</td>
<td>Lateral Condyle Malunion Case</td>
<td>Donald Bae, MD</td>
</tr>
<tr>
<td>3:02 PM - 3:11 PM</td>
<td>Lateral Condyle Malunion Discussion</td>
<td>Donald Bae, MD, MD</td>
</tr>
<tr>
<td>3:12 PM - 3:16 PM</td>
<td>Lateral Condyle Malunion Technique</td>
<td>Donald Bae, MD</td>
</tr>
<tr>
<td>3:16 PM - 3:20 PM</td>
<td>Summary &amp; Take Home Points</td>
<td>Donald Bae, MD</td>
</tr>
<tr>
<td>3:20 PM - 3:22 PM</td>
<td>Introduction to Neuromuscular Conditions</td>
<td>Julie Samora, MD, PhD</td>
</tr>
<tr>
<td>3:23 PM - 3:25 PM</td>
<td>Arthrogryposis Elbow Case</td>
<td>Scott Kozin, MD</td>
</tr>
<tr>
<td>3:26 PM - 3:35 PM</td>
<td>Arthrogryposis Elbow Discussion</td>
<td>Scott Kozin, MD, MD</td>
</tr>
<tr>
<td>3:36 PM - 3:40 PM</td>
<td>Arthrogryposis Technique</td>
<td>Scott Kozin, MD</td>
</tr>
<tr>
<td>3:41 PM - 3:43 PM</td>
<td>CP Wrist Case</td>
<td>Julie Samora, MD, PhD</td>
</tr>
<tr>
<td>3:44 PM - 3:53 PM</td>
<td>CP Wrist Discussion</td>
<td>Julie Samora, MD, MD</td>
</tr>
<tr>
<td>3:54 PM - 3:58 PM</td>
<td>CP Wrist Technique</td>
<td>Julie Samora, MD, PhD</td>
</tr>
<tr>
<td>3:59 PM - 4:01 PM</td>
<td>BPBP Shoulder Case</td>
<td>Peter Waters, MD</td>
</tr>
<tr>
<td>4:02 PM - 4:11 PM</td>
<td>BPBP Discussion</td>
<td>Peter Waters, MD, MD</td>
</tr>
<tr>
<td>4:12 PM - 4:16 PM</td>
<td>BPBP Technique</td>
<td>Peter Waters, MD</td>
</tr>
<tr>
<td>4:16 PM - 4:20 PM</td>
<td>Summary &amp; Take Home Points</td>
<td>Julie Samora, MD, PhD</td>
</tr>
<tr>
<td>5:00 PM - 7:30 PM</td>
<td>Top Gun Surgical Skills Competition (by invitation only)</td>
<td></td>
</tr>
</tbody>
</table>
$JPOSNA^\textregistered$ Call for Content

We are looking for content for future editions of $JPOSNA^\textregistered$

- 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: noonan@ortho.wisc.edu

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.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM - 3:00 PM</td>
<td>Registration</td>
</tr>
<tr>
<td>7:00 AM - 8:00 AM</td>
<td>Break and Exhibits</td>
</tr>
</tbody>
</table>
| 8:00 AM - 10:00 AM | Concurrent Session 3  
**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 |
**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
Emeritus Moderator: Thomas McPartland, MD

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

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
Emeritus Moderator: Steven Frick, MD

12:30 PM - 12:32 PM
Introduction
Moderator: A. Noelle Larson, MD
Emeritus Moderator: Steven Frick, 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
Emeritus Moderator: 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

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

### CME Breakout 3

**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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM - 3:20 PM</td>
<td>Congenital LE overview</td>
<td>Amanda Whitaker, MD</td>
</tr>
<tr>
<td>3:21 PM - 3:40 PM</td>
<td>Trauma UE</td>
<td>Mauricio Silva, MD</td>
</tr>
<tr>
<td>3:41 PM - 3:45 PM</td>
<td>Discussion</td>
<td>Amanda Whitaker, MD, Mauricio Silva, MD</td>
</tr>
<tr>
<td>3:46 PM - 4:05 PM</td>
<td>Sports: Knee Ankle</td>
<td>Bryan Tompkins, MD</td>
</tr>
<tr>
<td>4:06 PM - 4:20 PM</td>
<td>Sports: Shoulder Elbow</td>
<td>Brian Brighton, MD, MPH</td>
</tr>
<tr>
<td>4:21 PM - 4:30 PM</td>
<td>Tumor: The Good, The Bad, and The Ugly</td>
<td>Alexandre Arkader, MD</td>
</tr>
</tbody>
</table>

### Managing Tibia Bowing in Children

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

**Moderator:** John Herzenberg, MD

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM - 3:02 PM</td>
<td>Welcome/Introduction</td>
<td>John Herzenberg, MD</td>
</tr>
<tr>
<td>3:03 PM - 3:08 PM</td>
<td>When to Worry and When Not to</td>
<td>Christof Radler, MD</td>
</tr>
<tr>
<td>3:09 PM - 3:14 PM</td>
<td>Posteromedial Bow: What Do I Tell the Family?</td>
<td>David Podeszwa, MD</td>
</tr>
<tr>
<td>3:15 PM - 3:22 PM</td>
<td>Tips, Tricks, and Pearls of Tibial Lengthening</td>
<td>Raymond Liu, MD</td>
</tr>
</tbody>
</table>
### CME Breakout 3 continued

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:22 PM - 3:29 PM</td>
<td>Discussion</td>
<td>Christof Radler, MD, David Podeszwa, MD, Raymond Liu, MD</td>
</tr>
<tr>
<td>3:30 PM - 3:35 PM</td>
<td>Pathoanatomy of Anterolateral Bowing</td>
<td>L. Reid Nichols, MD</td>
</tr>
<tr>
<td>3:36 PM - 3:41 PM</td>
<td>Biologic Treatment of CPT: Where Are We?</td>
<td>Jonathan Schoenecker, MD, PhD</td>
</tr>
<tr>
<td>3:42 PM - 3:45 PM</td>
<td>Paley Cross-Union Technique for CPT</td>
<td>Dror Paley, MD, FRCSC</td>
</tr>
<tr>
<td>3:55 PM - 4:00 PM</td>
<td>Discussion</td>
<td>L. Reid Nichols, MD, Jonathan Schoenecker, MD, PhD, Dror Paley, MD</td>
</tr>
<tr>
<td>4:00 PM - 4:30 PM</td>
<td>Case Discussion</td>
<td>Christof Radler, MD, David Podeszwa, MD, Raymond Liu, MD, L. Reid Nichols, MD, Jonathan Schoenecker, MD, PhD, Dror Paley, MD</td>
</tr>
</tbody>
</table>

### 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**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM - 3:05 PM</td>
<td>Why Flip? An Introduction</td>
<td>Donald Bae, MD</td>
</tr>
<tr>
<td>3:06 PM - 3:09 PM</td>
<td>Case #1: Radial Longitudinal Dysplasia</td>
<td>Scott Kozin, MD</td>
</tr>
<tr>
<td>3:10 PM - 3:25 PM</td>
<td>Case #1: Small Group Discussion</td>
<td>Donald Bae, MD, Scott Kozin, MD, Julie Samora, MD, PhD, Peter Waters, MD</td>
</tr>
<tr>
<td>3:26 PM - 3:41 PM</td>
<td>Case #1: Group Debrief</td>
<td>Scott Kozin, MD</td>
</tr>
<tr>
<td>3:42 PM - 3:45 PM</td>
<td>Case #2: Sprengel</td>
<td>Peter Waters, MD</td>
</tr>
</tbody>
</table>

### 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**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM - 3:05 PM</td>
<td>Clubfoot Ponseti Video</td>
<td>Derek Kelly, MD</td>
</tr>
<tr>
<td>3:06 PM - 3:11 PM</td>
<td>Alternate Casting Techniques and When to use Them</td>
<td>Vishwas Talwalkar, MD, FAAOS</td>
</tr>
<tr>
<td>3:12 PM - 3:17 PM</td>
<td>Never Do These Things When Casting Clubfeet</td>
<td>Maryse Bouchard, MD</td>
</tr>
<tr>
<td>3:18 PM - 3:23 PM</td>
<td>Bracing Compliance Tricks</td>
<td>Jennifer Laine, MD</td>
</tr>
</tbody>
</table>
CME Breakout 3  

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

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

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  
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
C-Pro Direct are proud to announce

The ADM Modular Brace System is now available

in America from

KiddFoot

salesforce@kiddfoot.com
### 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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
</tr>
</thead>
</table>
| 8:00 AM - 8:38 AM | Clubfoot And…  
**Moderator:** Derek Kelly, MD  
**eModerator:** Jennifer Laine, MD |  
**Moderator:** Jennifer Laine, MD  
**eModerator:** Steven Frick, MD |
| 8:00 AM - 8:06 AM | Clubfoot and Arthrogryosis: Spectrum of Disease and Variations in Treatment  
Presenter: Steven Frick, MD |  
**Moderator:** Jennifer Laine, MD  
**eModerator:** 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 |  
**Moderator:** Jennifer Laine, MD  
**eModerator:** 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 |  
**Moderator:** Jennifer Laine, MD  
**eModerator:** Kenneth Noonan, MD, MHCDS |
| 8:21 AM - 8:27 AM | Clubfoot and Late Presentation: Is Ponseti Enough?  
Presenter: Bryan Tompkins, MD |  
**Moderator:** Jennifer Laine, MD  
**eModerator:** 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 |  
**Moderator:** Jennifer Laine, MD  
**eModerator:** 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 |  
**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 |  
**Moderator:** Jennifer Laine, MD  
**eModerator:** 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 |  
**Moderator:** Jennifer Laine, MD  
**eModerator:** 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 |  
**Moderator:** Jennifer Laine, MD  
**eModerator:** Derek Kelly, MD |
| 9:00 AM - 9:06 AM | Pediatric Foot Fusions: What Does the Future Hold?  
Presenter: Maryse Bouchard, MD |  
**Moderator:** Jennifer Laine, MD  
**eModerator:** Maryse Bouchard, MD |
| 9:07 AM - 9:17 AM | Discussion  
Panelists: Jennifer Laine, MD  
M. Wade Shrader, MD  
Derek Kelly, MD  
Maryse Bouchard, MD |  
**Moderator:** Jennifer Laine, MD  
**eModerator:** 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 |  
**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 |  
**Moderator:** Maryse Bouchard, MD  
**eModerator:** Kenneth Noonan, MD, MHCDS |
| 9:25 AM - 9:31 AM | Tendon Transfers in Cerebral Palsy: When is it Enough?  
Presenter: Jon Davids, MD |  
**Moderator:** Maryse Bouchard, MD  
**eModerator:** Jon Davids, MD |
| 9:32 AM - 9:38 AM | Tibialis Posterior for Foot Drop: Tips for Success?  
Presenter: Amanda Whitaker, MD |  
**Moderator:** Maryse Bouchard, MD  
**eModerator:** Amanda Whitaker, MD |
| 9:39 AM - 9:45 AM | Tendon Transfers in Charcot Marie Tooth: The Hindfoot and the Forefoot  
Presenter: Vincent Mosca, MD |  
**Moderator:** Maryse Bouchard, MD  
**eModerator:** Vincent Mosca, MD |
| 9:46 AM - 9:56 AM | Discussion  
Panelists: Kenneth Noonan, MD, MHCDS  
Jon Davids, MD  
Amanda Whitaker, MD  
Vincent Mosca, MD |  
**Moderator:** Maryse Bouchard, MD  
**eModerator:** Kenneth Noonan, MD, MHCDS  
Jon Davids, MD  
Amanda Whitaker, MD  
Vincent Mosca, MD |
## Concurrent Session 4

### 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*

*E-Moderator: Eduardo Novais, MD*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM - 8:06 AM</td>
<td>Adolescence - A Time of Pain</td>
<td>David Podeszwa, MD</td>
</tr>
<tr>
<td>8:07 AM - 8:13 AM</td>
<td>Not everyone has FAI or DDH-Don’t Miss These Diagnoses</td>
<td>Ernest Sink, MD</td>
</tr>
<tr>
<td>8:14 AM - 8:20 AM</td>
<td>Stressed Out by Stress Fractures?</td>
<td>Jennifer Beck, MD</td>
</tr>
<tr>
<td>8:21 AM - 8:27 AM</td>
<td>Fractures of the Upper Femur: How Has Management Changed in the Locking Plate and IM Nail Era?</td>
<td>Jose Herrera-Soto, MD</td>
</tr>
<tr>
<td>8:28 AM - 8:38 AM</td>
<td>Discussion</td>
<td>David Podeszwa, MD, Ernest Sink, MD, Jennifer Beck, MD, Jose Herrera-Soto, MD</td>
</tr>
<tr>
<td>8:39 AM - 8:45 AM</td>
<td>Pelvic Avulsions - Nothing to Worry About?</td>
<td>Mininder Kocher, MD, MPH</td>
</tr>
<tr>
<td>8:46 AM - 8:52 AM</td>
<td>Femoral Chondral Lesions in Adolescents- Diagnosis and Management</td>
<td>Ira Zaltz, MD</td>
</tr>
<tr>
<td>8:53 AM - 8:59 AM</td>
<td>Chondrolysis-Don’t Miss the Chance for Early Treatment</td>
<td>Wudbhav (Woody) Sankar, MD</td>
</tr>
<tr>
<td>9:00 AM - 9:06 AM</td>
<td>Osteonecrosis-Management of Ficat Stage 0, 1</td>
<td>Eduardo Novais, MD</td>
</tr>
<tr>
<td>9:07 AM - 9:13 AM</td>
<td>Benign Tumors Around the Hip</td>
<td>Alexandre Arkader, MD</td>
</tr>
<tr>
<td>9:14 AM - 9:24 AM</td>
<td>Discussion</td>
<td>Mininder Kocher, MD, Ira Zaltz, MD, Wudbhav (Woody) Sankar, MD, Eduardo Novais, MD, Alexandre Arkader, MD</td>
</tr>
<tr>
<td>9:25 AM - 9:31 AM</td>
<td>SCFE: Predictors of Contralateral Slip in 2021</td>
<td>Pablo Castaneda, MD</td>
</tr>
<tr>
<td>9:32 AM - 9:38 AM</td>
<td>Septic Hip in 2021: Has Anything Changed in the Past Decade?</td>
<td>Jonathan Schoenecker, MD, PhD</td>
</tr>
<tr>
<td>9:39 AM - 9:45 AM</td>
<td>Sepsis in 2021: Managing the Sequelae</td>
<td>Thomas Wirth, MD, PhD</td>
</tr>
<tr>
<td>9:46 AM - 9:56 AM</td>
<td>Inflammatory Arthropathy and the Pediatric Orthopaedist: An Orthopaedic Primer</td>
<td>Kishore Mulpri, MD</td>
</tr>
<tr>
<td>9:56 AM - 10:00 AM</td>
<td>Discussion</td>
<td>Pablo Castaneda, MD, Jonathan Schoenecker, MD, Thomas Wirth, MD, Kishore Mulpri, MD</td>
</tr>
</tbody>
</table>

### 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*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:15 AM - 10:35 AM</td>
<td>Congenital UE overview</td>
<td>Christine Ho, MD</td>
</tr>
<tr>
<td>10:36 AM - 10:46 AM</td>
<td>CP: Gait</td>
<td>Brian Brighton, MD, MPH</td>
</tr>
<tr>
<td>10:47 AM - 10:57 AM</td>
<td>CP: LE</td>
<td>Jeanne Franzone, MD</td>
</tr>
<tr>
<td>10:57 AM - 11:12 AM</td>
<td>Discussion</td>
<td>Christine Ho, MD, Brian Brighton, MD, Jeanne Franzone, MD</td>
</tr>
<tr>
<td>11:13 AM - 11:23 AM</td>
<td>Trauma LE</td>
<td>Mauricio Silva, MD</td>
</tr>
<tr>
<td>11:24 AM - 11:34 AM</td>
<td>Best Team Strategies to Include Advanced Practice Providers</td>
<td>Wendy Moon, MS, APRN, PNP</td>
</tr>
<tr>
<td>11:35 AM - 11:45 AM</td>
<td>Discussion</td>
<td>Wendy Moon, MS, APRN, PNP</td>
</tr>
</tbody>
</table>

---

43
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 & Equinovarovalus  
**Presenter:** Jon Davids, MD

10:46 AM - 10:55 AM  
Foot Deformity II - Equinoplenovalus 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 Miyani, 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 HRQoL 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 Eberson, 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 Eberson, MD  
Nicholas Fletcher, MD  
Michael Vitale, MD, MPH
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

10:41 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
10:19 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.
Elsevier

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.
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.

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.
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 cryoanalgnesia 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; 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
Pontifica 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
Guillero 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 Alred; 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, MBChB, 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; Joseph dejesus 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 Mathew, 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 Alkhaldi, 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
Children’s National Hospital

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
8102 International Drive Orlando, FL 32819
Open Daily: 8 AM - 9 PM
Phone: (407) 363-5872
E-mail: info@visitorlando.com

Dining & Entertainment Districts
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
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.

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.

Early Park Admission† to the Wizarding World of Harry Potter™
Enjoy Early Park Admission† to The Wizarding World of Harry Potter™ and Universal’s Volcano Bay™ one hour before the theme park opens to the public when you stay at this on-site hotel. Valid theme park admission required.

Fun, Free and Easy Transportation
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.

Need Child Care during IPOS®?
http://kidsniteout.com/
Visit Kids Night Out for more information.

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).

For more information visit these sites:
https://www.visitorlando.com/
https://www.citywalkhollywood.com/
THINGS TO DO IN FLORIDA

DINING & ENTERTAINMENT COMPLEXES
- Pointe Orlando
- I-Drive 360
- Universal CityWalk
- Disney Springs

- State Road
- Toll Road
- U.S. Highway
- Interstate

DISTRICT 1
- Epcot Center Dr.
- World Drive
- Disney's Hollywood Studios
- Disney Springs

DISTRICT 2
- "Restaurant Row"
- Samoan Court
- Jamaican Court
- Austrian Court

DISTRICT 3
- International Drive
- Pointe Orlando
- Universal CityWalk
- Convention Way

DISTRICT 4
- Magic Kingdom
- Disney Springs
- Epcot Center

DISTRICT 5
- Universal Blvd.
- Orlando International Airport
- Disney's Hollywood Studios

DISTRICT 6
- Water Park Village
- New England Ave.
- Comstock Ave.
- Palm Parkway

DOWNTOWN ORLANDO & WINTER PARK
- I-Drive 360
- Universal CityWalk
- Disney Springs

CVB7286 Dining Districts Map Brochure 2018 Rev 3.indd   5
12/15/17   2:06 PM

17th Annual
IPOS
MEMBERSHIP INFORMATION

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 Symposium (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

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

Follow us!

POSNA posna_org POSNA posna_ortho

Apply Today at posna.org
Join over 1,500+ members in one of the most diverse orthopaedic subspecialty societies!
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.