

15th Annual International Pediatric Orthopaedic Symposium

2018

November 27 – December 1
Orlando, Florida



Loews Royal
Pacific Hotel
Orlando, Florida

Donald S. Bae, MD
Course Director



POSNA
PEDIATRIC ORTHOPAEDIC SOCIETY
OF NORTH AMERICA

AAOS
AMERICAN ACADEMY OF
ORTHOPAEDIC SURGEONS

Thank You

The Pediatric Orthopaedic Society of North America
and the American Academy of Orthopaedic
Surgeons gratefully acknowledges the following
for their generous support of the
2017 IPOS Meeting:

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Register Online Today at
ipos.posna.org

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Presented by



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Donald S. Bae, MD
Director

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.

Learning Objectives

At the conclusion of this course, learners should be able to:

- Effectively assess children with musculoskeletal conditions requiring care
- Compare and contrast surgical and non-operative treatment options for common pediatric orthopaedic conditions
- Apply alternative treatment techniques for selected pediatric orthopaedic conditions
- Identify, manage, and prevent complications of common pediatric orthopaedic conditions and treatments
- Implement evidence-based strategies for infection control, fracture care, and management of sports-related injuries.

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.

The American Academy of Orthopaedic Surgeons designates the 2018 IPOS Meeting for a maximum of **24.25 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in this live activity.

IPOS Vision

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.

IPOS Mission

To provide the highest quality pediatric orthopaedic education to learners and practitioners of all levels.

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 renown international faculty share their expertise in every subspecialty field of pediatric orthopaedics.

Craft your own IPOS Adventure with over 40 Breakout Sessions:

- Focused lectures and engaging case discussions
- Surgical skills demonstrations
- Hands-on technical workshops
- Industry-sponsored satellite sessions on cutting-edge techniques

It's Back!

One-Day Fundamentals in Pediatric Orthopaedics

This one-day intensive review course prepares you for the 2019 Practice-Profiled Recertification Exam in Pediatric Orthopaedic Surgery, and is a sound review of the essentials of pediatric orthopaedics. Review Course is included with full IPOS registration.

ePosters

Share your research with the large body of attendees by participating in the popular ePosters program.

The application deadline is September 4, 2018.

Scholarships Available

Recipients of a full tuition scholarship for the 15th Annual International Pediatric Orthopaedic Symposium (IPOS) must attend the program in its entirety. Interested candidates should complete the Scholarship Application form.

The application deadline is August 6, 2018.

Lunchtime Cases

During lunch, panels consisting of one to two faculty members present on prepared topics. IPOS attendees are encouraged to submit and present their own cases from their own practices; making the learning experienced more personalized and more relevant!

The application deadline is October 31, 2018.

Residents & Fellows Special Programming just for You:

- Career Planning and Professional Development
- Resident Case Competition
- Top Gun Surgical Simulation
- Mentoring Sessions

2018 IPOS Faculty

Stephen A Albanese, MD*
Lindsay Andras, MD
Jill Ariagno, MSN, RN*
Alexandre Arkader, MD
Donald S. Bae, MD*
Laurel C. Blakemore, MD
Michael T. Busch, MD
Michelle S. Caird, MD
Pablo Castaneda, MD*
Henry Chambers, MD
Jon R. Davids, MD*
Mark A. Erickson, MD
John M. Flynn, MD*
Steven L. Frick, MD
Theodore J. Ganley, MD*
Michael P. Glotzbecker, MD
Charles Goldfarb, MD
Martin Herman, MD*
Jose A. Herrera Soto, MD
John E. Herzenberg, MD
Christine Ho, MD
Lori A. Karol, MD
Robert Michael Kay, MD
Mininder S. Kocher, MD, MPH
Scott Kozin, MD
A. Noelle Larson, MD
William G. Mackenzie, MD*

James J. McCarthy, MD
Amy L. McIntosh, MD
Todd A. Milbrandt, MD*
Vincent S. Mosca, MD
Peter O. Newton, MD
Kenneth J. Noonan, MD*
Tom F. Novacheck, MD
Dror Paley, MD
Jonathan H. Phillips, MD
Wudbhav N. Sankar, MD
Jeffrey Sawyer, MD
Jonathan G. Schoenecker, MD*
Richard M. Schwend, MD
Suken A. Shah, MD*
Susan A. Scherl, MD
Kevin G. Shea, MD
Benjamin J. Shore, MD MPH*
Ernest L. Sink, MD*
David Lee Skaggs, MD
Brian G. Smith, MD
David A. Spiegel, MD
Paul D. Sponseller, MD
Anne Studemann
Daniel J. Sucato, MD, MS
Vishwas R. Talwalker, MD
Bryan J. Tompkins, MD*
Michael G. Vitale, MD, MPH*

Peter M. Waters, MD
Jennifer M. Weiss, MD
Ira Zaltz, MD

International Faculty

Haemish Crawford, MD
Alain Dimeglio, MD
Deborah Eastwood, FRCS
David Farrington, MD
David G. Little, MBBS, FRACS, PhD
James Hoi Po Hui, FRCSE
Kishore Mulpuri, MD
Christof Radler, MD
Matthew Varghese, MS
Thomas Wirth, MD, PhD
Muharrem Yazici, MD

Instructors

Nicholas Fletcher, MD
Derek Kelly, MD
Javier Masquijo, MD
Gerad Montgomery MSN, FNP-C
Reid Nichols, MD
Coleen S. Sabatini, MD
Jessica Staschak MSN, CRNP

*2018 IPOS Advisory Board

Language

English will be the official language of 2018 IPOS Meeting.

2018 IPOS Meeting Policies

Event Cancellation

Due to circumstances beyond our control, the Pediatric Orthopaedic Society of North America may elect to cancel the Annual Meeting. These circumstances may include but are not limited to disaster, severe weather, civil commotion or government laws or regulations. In the event of such cancellation, all IPOS Meeting 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.

No Smoking Policy

Smoking is not permitted during any meeting or event.

No Cameras or Video Cameras

Cameras or video cameras may not be used in any portion of the scientific session.

No Reproductions

No reproduction of any kind including audio tapes and videotapes may be made of the presentations at this meeting without the prior written permission of POSNA. POSNA reserves all of its rights to such material and commercial reproduction is specifically prohibited.

Photographs

Registration and attendance at, or participation in, POSNA activities constitutes an agreement by the registrant to allow POSNA to use and distribute (both now and in the future) the registrant's or attendee's image in POSNA member communications and promotional materials.

Disclaimer

The material presented at the 2018 IPOS Meeting 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 any and all liability for injury or other damages resulting to any individual attending the IPOS Meeting 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 the 2018 IPOS Meeting, 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 the 2018 IPOS Meeting arising from natural, political, social or economic events or other unforeseen incidents beyond its control. Registration of a participant implies acceptance of this condition.



FDA Statement (United States)

Some drugs or medical devices demonstrated at this IPOS Meeting may not have been cleared by the FDA or have been cleared by the FDA for specific purposes only. The FDA has stated that it is the responsibility of the physician to determine the FDA clearance status of each drug or medical device he or she wishes to use in clinical practice. 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 faculty member 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 and the Academy do 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.

Registration Hours

Tuesday, November 27	3:00 PM – 7:00 PM
Wednesday, November 28	6:30 AM – 6:00 PM
Thursday, November 29	6:30 AM – 4:30 PM
Friday, November 30	6:30 AM – 5:00 PM
Saturday, December 1	6:30 AM – 2:30 PM

Early Registration Fees

POSNA/AAOS Member	\$ 1,349
Orthopaedic Resident/Post Residency Fellow/ U.S. Military*/ POSNA/AAOS Emeritus	\$ 1,149
Nonmember	\$ 1,949
Delegates from Reduced Rate Countries Low Income (determined by World Bank)	\$ 999
Nurse/Allied Health/PA	\$ 849
Saturday One-Day Fundamentals in Pediatric Orthopaedics Review Course (included with full registration)	\$ 349

*For AAOS/POSNA members in active
U.S. military duty only

After October 8, 2018: Additional Fee \$50

Pre-registration closes November 5, 2018.

Refund Policy

Requests for refunds must be received in writing to the POSNA office (POSNA, 9400 West Higgins Road, Ste. 500, Rosemont, IL 60018) or email posna@aaos.org. A full refund will be granted if the written request is received before November 5, 2018. After November 5, 2018, a 20% administration fee will be taken from the refund. No refunds will be granted after November 23, 2018.

2018 IPOS Meeting App

Full Program can be Found in the
2018 IPOS Meeting App



Meeting App will be available in November 2018.

Schedules will NOT be provided at registration.

We encourage you to create your schedule in the app by bookmarking sessions, where you can download into your Outlook calendar.

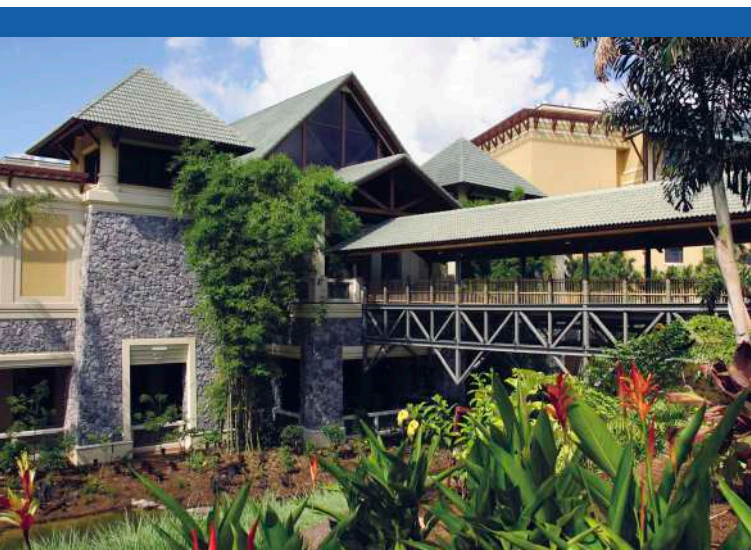


Dates to Remember

Early Registration Deadline
October 8, 2018

Pre-Registration Closes
November 5, 2018

After November 5, 2018,
Please register on-site.



Housing

Hotel

Loews Royal Pacific Resort
6300 Hollywood Way
Orlando, FL 32819

Hotel Reservations

Toll Free: 1.866.360.7395
Direct: 1.407.503.9276

Hotel Reservation Deadline

November 5, 2018
Group Rate: \$199.00 (plus applicable taxes & fees)

**Online booking link available
on the IPOS website.**

Exhibit Hall Hours

Wednesday, November 28	6:30 AM – 7:15 PM
Thursday, November 29	6:30 AM – 4:30 PM
Friday, November 30	6:30 AM – 4:00 PM

Speaker Ready Room Hours

Tuesday, November 27	3:00 PM – 7:00 PM
Wednesday, November 28	6:30 AM – 6:00 PM
Thursday, November 29	6:30 AM – 4:30 PM
Friday, November 30	6:30 AM – 5:00 PM
Saturday, December 1	6:30 AM – 2:30 PM

SAVE THE DATES

IPOS Meeting

**December 10 - 14, 2019
Lake Buena Vista, FL**

Future Annual Meetings

**May 15-18, 2019
Charlotte, North Carolina**

**May 13-16, 2020
San Diego, California**

**Register Online Today at
ipos.posna.org**

**Craft your own IPOS Adventure
by Topic:**



General Pediatric Orthopaedics/Trauma

- **Challenges & Controversies in Pediatric Trauma** (General Session 1 – Wednesday, 11/28, 7:30-10 AM)
- **Global Orthopaedics** (General Session 2 – Thursday, 11/29, 9-11:30 AM)
- **Medical Advances in Musculoskeletal Health and Disease** (CME Breakout – Thursday, 11/29, 12:30 PM-2 PM)
- **Authors' Preferred Techniques** (General Session 3 – Friday, 11/30, 12:30-2:50 PM)
- **Musculoskeletal Infections** (CME Breakout – Friday, 11/30, 3:30-5 PM)
- **Patient and Provider Wellness** (CME Breakout – Saturday, 12/1, 10-11:30 AM)



Hip

- **Cases and Complications in the Immature Hip** (CME Breakout – Wednesday, 11/28, 10:30 AM-12 PM)
- **Pelvic Osteotomies I: Salter, Dega, Pemberton** (CME Breakout – Thursday, 11/29, 12:30-2 PM)
- **Hip Conditions in the Older Child and Adolescent** (Concurrent Session 3 – Thursday, 11/29, 2:20-4:30 PM)
- **Pelvic Osteotomies II: Triple, PAO** (hands-on workshop) (CME Breakout – Friday, 11/30, 3:30-5 PM)



Hand & Upper Extremity

- **Congenital Conditions and Trauma of the Upper Limb** (Concurrent Session 2 – Wednesday, 11/28, 1:00-3:10 PM)



Spine

- **Adolescent Idiopathic and Early Onset Scoliosis** (Concurrent Session 4 – Friday, 11/30, 9-11:30 AM)
- **Spine: Spondylolysis and Spondylolisthesis** (CME Breakout – Friday, 11/30, 3:30-5 PM)



Sports

- **Hip and Elbow Conditions in the Young Athlete** (CME Breakout – Thursday, 11/29, 12:30 PM-2 PM)
- **Knee Injuries in the Young Athlete** (Concurrent Session 6 – Friday, 11/30, 9-11:30 AM)
- **Principles and Techniques in Pediatric Sports** (CME Breakout – Saturday, 12/1, 10-11:30 AM)



Neuromuscular & Cerebral Palsy

- **Case & Controversies in Neuromuscular Conditions of the Upper Limb** (CME Breakout – Wednesday, 11/28, 10:30 AM-12 PM)
- **Medical and Surgical Treatment of the Neuromuscular Patient** (Concurrent Session 1 – Wednesday, 11/28, 1:00 - 3:10 PM)
- **Gait I: Normal vs Pathological Gait** (CME Breakout – Friday, 11/30, 3:30-5 PM)
- **Gait II: Case-based Decision-Making in Gait, Analysis, from Beginner to Advanced** (CME Breakout – Saturday, 12/1, 10-11:30 AM)



Foot

- **Ponseti I** (hands-on workshop) (CME Breakout – Wednesday, 11/28, 10:30 AM-12 PM)
- **Ponseti I** (hands-on workshop) (CME Breakout – Thursday, 11/29, 12:30-2 PM)
- **Ponseti II** (CME Breakout – Friday, 11/30, 3:30-5 PM)
- **The Child's Foot** (General Session 4 – Saturday, 12/1, 7:30-9:40 AM)



Syndromes, Dysplasias & Genetic Conditions

- **Dysplasias and Syndromes** (CME Breakout – Wednesday, 11/28, 10:30 AM-12 PM)
- **Skeletal Deformity Correction in MHE and OI** (Concurrent Session 4 – Thursday, 11/29, 2:20-4:30 PM)



POPS

- **Non-OP POPS: Special Considerations** (CME Breakout – Wednesday, 11/28, 10:30 AM-12 PM)
- **POPS: Perioperative Management of the CP Patient** (CME Breakout – Thursday, 11/29, 12:30-2 PM)
- **POPS Presents: Pediatric Fracture Clinic: In the Trenches** (CME Breakout – Friday, 11/30, 3:30-5 PM)



Lower Extremity/Deformity

- **Six Axis Deformity Correction with Circular Fixator I** (hands-on workshop) (CME Breakout – Wednesday, 11/28, 10:30 AM-12 PM)
- **Fixator II** (hands-on workshop) (CME Breakout – Thursday, 11/29, 12:30-2 PM)
- **Fixator III** (hands-on workshop) (CME Breakout – Friday, 11/30, 3:30-5 PM)
- **Fixator IV** (hands-on workshop) (Saturday, 12/1, 10-11:30 AM)

Schedule At a Glance

Tuesday, November 27

Registration	3:00 PM - 7:00 PM
Resident Scholarship Recipient Case Presentations	4:00 PM - 5:15 PM
Career Planning and Professional Development for Residents and Fellows	5:15 PM - 6:30 PM
Industry-sponsored Pre-Course	6:45 PM - 8:00 PM
Industry-sponsored Pre-Course	6:45 PM - 8:00 PM
Industry-sponsored Cocktail Reception	8:00 PM - 8:45 PM

Wednesday, November 28

Registration	6:30 AM - 6:00 PM
Breakfast & Exhibits	6:30 AM - 7:30 AM
GENERAL SESSION 1– Challenges & Controversies in Pediatric Trauma	 7:30 AM - 10:00 AM
Director's Welcome	10:00 AM - 10:10 AM
Break & Exhibits	10:10 AM - 10:30 AM
CME Breakout– Ponseti I (hands-on workshop)	 10:30 AM - 12:00 PM
CME Breakout– Six Axis Deformity Correction with Circular Fixator I (hands-on workshop)	 10:30 AM - 12:00 PM
CME Breakout– Case & Controversies in Neuromuscular Conditions of the Upper Limb	 10:30 AM - 12:00 PM
CME Breakout– Cases and Complications in the Immature Hip	 10:30 AM - 12:00 PM
CME Breakout– Dysplasias and Syndromes	 10:30 AM - 12:00 PM
CME Breakout– Non-OP POPS: Special Considerations	 10:30 AM - 12:00 PM
Lunch & Exhibits	12:00 PM - 1:00 PM
Concurrent Session 1– Medical and Surgical Treatment of the Neuromuscular Patient	 1:00 PM - 3:10 PM
Concurrent Session 2– Congenital Conditions and Trauma of the Upper Limb	 1:00 PM - 3:10 PM
Break & Exhibits	3:10 PM - 3:30 PM
Industry Spotlight Sessions	3:30 PM - 4:40 PM
Industry Spotlight Sessions	4:50 PM - 6:00 PM
Course Directors' Welcome Reception	6:15 PM - 7:15 PM

Schedule Subject to Change

Thursday, November 29

Registration	6:30 AM - 4:30 PM
Breakfast & Exhibits	6:30 AM - 7:30 AM
Industry Spotlight Sessions	7:30 AM - 8:40 AM
Break & Exhibits	8:40 AM - 9:00 AM
GENERAL SESSION 2– Global Orthopaedics	 9:00 AM - 11:30 AM
Lunch & Exhibits	11:30 AM - 12:30 PM
Lunchtime Cases	11:45 AM - 12:30 PM
CME Breakout– Ponseti I (hands-on workshop)	 12:30 PM - 2:00 PM
CME Breakout– Six Axis Deformity Correction with Circular Fixator II: Tibia Fracture Management (hands-on workshop)	 12:30 PM - 2:00 PM
CME Breakout– Medical Advances in Musculoskeletal Health and Disease	 12:30 PM - 2:00 PM
CME Breakout– Pelvic Osteotomies I: Salter, Dega, Pemberton (hands-on workshop)	 12:30 PM - 2:00 PM
CME Breakout– Hip and Elbow Conditions in the Young Athlete	 12:30 PM - 2:00 PM
CME Breakout– POPS Session: Perioperative Management of the CP Patient	 12:30 PM - 2:00 PM
Break & Exhibits	2:00 PM - 2:20 PM
Concurrent Session 3– Hip Conditions In the Older Child and Adolescent	 2:20 PM - 4:30 PM
Concurrent Session 4– Skeletal Deformity Correction in MHE and OI	 2:20 PM - 4:30 PM
Top Gun Surgical Simulation Competition (by invitation only)	5:00 PM - 7:30 PM

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

Schedule At a Glance, continued

Friday, November 30

Registration	6:30 AM - 5:00 PM
Breakfast & Exhibits	6:30 AM - 7:30 AM
Industry Spotlight Sessions	7:30 AM - 8:40 AM
Break & Exhibits	8:40 AM - 9:00 AM
Concurrent Session 5– Adolescent Idiopathic and Early Onset Scoliosis	9:00 AM - 11:30 AM
Concurrent Session 6– Knee Injuries in the Young Athlete	9:00 AM - 11:30 AM
Lunch & Exhibits	11:30 AM - 12:30 AM
Lunchtime Cases	11:45 AM - 12:30 PM
GENERAL SESSION 3– Authors' Preferred Techniques	12:30 PM - 2:50 PM
Awards and Acknowledgements	2:50 PM - 3:05 PM
Break & Exhibits	3:10 PM - 3:40 PM
CME Breakout– Ponseti II	3:30 PM - 5:00 PM
CME Breakout– Six Axis Deformity Correction with Circular Fixator III: Blount's Disease (hands-on workshop)	3:30 PM - 5:00 PM
CME Breakout– Musculoskeletal Infections	3:30 PM - 5:00 PM
CME Breakout– Pelvic Osteomies II: Triple, PAO	3:30 PM - 5:00 PM
CME Breakout– Gait I: Normal vs Pathological Gait	3:30 PM - 5:00 PM
CME Breakout– POPS Presents: Pediatric Fracture Clinic: In the Trenches	3:30 PM - 5:00 PM
CME Breakout– Spine: Spondylolysis and Spondylolisthesis	3:30 PM - 5:00 PM

Saturday, December 1

Registration	6:30 AM - 2:30 PM
Breakfast	6:30 AM - 7:30 AM
GENERAL SESSION 4– The Child's Foot	7:30 AM - 9:40 AM
One-Day Fundamentals in Pediatric Orthopaedics Review Course	8:00 AM - 2:30 PM
Break	9:40 AM - 10:10 AM
CME Breakout– Six Axis Deformity Correction with Circular Fixator IV: Treatment of Ankle Equinus Contracture (hands-on workshop)	10:00 AM - 11:30 AM
CME Breakout– Principles and Techniques in Pediatric Sports	10:00 AM - 11:30 AM
CME Breakout– Patient and Provider Wellness	10:00 AM - 11:30 AM
CME Breakout– Gait II: Case-based Decision Making, from Beginner to Advanced	10:00 AM - 11:30 AM
Lunch	11:30 AM - 12:30 PM

Schedule Subject to Change



"This is one of the most well-run well-organized educational meetings with such a depth and breadth of topics in pediatric orthopedics. I always learn more and improve my practice after attending."

–2016 IPOS Attendee

* **Industry Spotlight Sessions**
(Non-CME) WILL BE AVAILABLE IN OCTOBER

Register Online Today at
ipos.posna.org

Tuesday, November 27

3:00 PM–7:00 PM	REGISTRATION
4:00 PM–5:15 PM	Scholarship Recipient Case Presentations
5:15 PM–6:30 PM	Career and Professional Development for Residents and Fellows
6:45 PM–8:00 PM	CONCURRENT EVENTS (Non-CME) Industry Pre-Course Title and description will be available in October. Industry Pre-Course Title and description will be available in October.
8:00 PM–8:45 PM	Cocktail Reception Industry Sponsored

Wednesday, November 28

6:30 AM–6:00 PM	REGISTRATION
6:30 AM–7:30 AM	BREAKFAST and EXHIBITS
7:30 AM–10:00 AM	GENERAL SESSION 1- Challenges & Controversies in Pediatric Trauma Join our international faculty for brief presentations on challenging and controversial topics in pediatric trauma.
7:30 AM	Moderator: <i>Donald S. Bae, MD</i> eModerator: <i>Christine Ho, MD</i>
7:30 AM	Introduction – <i>Donald S. Bae, MD</i>
7:33 AM	Posterior SCJ Dislocations: When and How to Reduce <i>Donald S. Bae, MD</i>
7:39 AM	Proximal Humerus Fractures: Which Need Surgery? <i>Haemish Crawford, MD</i>
7:45 AM	Pulseless Supracondylar: Observe or Explore <i>Peter M. Waters, MD</i>
7:51 AM	Discussion Panelists: <i>Donald S. Bae, MD</i> <i>Haemish Crawford, MD</i> <i>Peter M. Waters, MD</i>
7:57 AM	Adolescent T-Condylar Fracture: Approach and Fixation Options <i>Martin Herman, MD</i>
8:03 AM	Monteggia Fracture-Dislocations: Cast or Surgery? <i>Jeffrey Sawyer, MD</i>
8:09 AM	Radial Neck Fracture: When to Open? <i>Todd A. Milbrandt, MD</i>
8:15 AM	Discussion Panelists: <i>Martin Herman, MD</i> <i>Jeffrey Sawyer, MD</i> <i>Todd A. Milbrandt, MD</i>

8:24 AM	Upper Extremity Cases Panelists: <i>Haemish Crawford, MD</i> <i>Peters M. Waters, MD</i> <i>Christine Ho, MD</i> <i>Todd A. Milbrandt, MD</i>
8:50 AM	Moderator: <i>John M. Flynn, MD</i> eModerator: <i>Derek Kelly, MD</i>
8:50 AM	Femoral Neck Fracture: Is It an Emergency? <i>Christof Radler, MD</i>
8:56 AM	4 Year Old with Femoral Shaft Fracture: Spica or Internal Fixation? <i>John M. Flynn, MD</i>
9:02 AM	Patellar Dislocation: Primary MPFL Repair? <i>James Hoi Po Hui, FRCSE</i>
9:08 AM	Discussion Panelists: <i>Christof Radler, MD</i> <i>John M. Flynn, MD</i> <i>James Hoi Po Hui, FRCSE</i>
9:17 AM	Tibial Spine Fracture: Reduce/Cast or Scope? <i>Kevin G. Shea, MD</i>
9:23 AM	Diaphyseal Tibia Fracture in the Teen with Open Physes: Best Fixation? <i>Susan A. Scherl, MD</i>
9:29 AM	Distal Tibia Growth Arrest: Open Reduction to Avoid Physeal Arrest? <i>Vishwas R. Talwalker, MD</i>
9:35 AM	Discussion Panelists: <i>Kevin G. Shea, MD</i> <i>Susan A. Scherl, MD</i> <i>Vishwas R. Talwalker, MD</i>
9:44 AM	Lower Extremity Cases Panelists: <i>John M. Flynn, MD</i> <i>Christof Radler, MD</i> <i>James Hoi Po Hui, FRCSE</i> <i>Susan A. Scherl, MD</i> <i>Vishwas R. Talwalker, MD</i>

10:00 AM **Director's Welcome**

10:10 AM Break & Exhibits

10:30 AM–12:00 PM **CME BREAKOUT SESSIONS**
(Advance Sign-up Encouraged for
Hands-on Workshops)

Ponseti I (hands-on workshop)



From the fundamental principles to technical pearls,
learn from our international experts the technique of
Ponseti casting for clubfoot.

Chair: *Ken Noonan, MD*

Faculty: *Jon R. Davids, MD*

Alain Dimeglio, MD

Derek Kelly, MD

Vincent S. Mosca, MD

Schedule Subject to Change

Wednesday, November 28, continued

**Six Axis Deformity Correction with
Circular Fixator I** (hands-on workshop)

 This hands-on workshop will guide you through six-axis deformity correction using circular external fixators. While each breakout session may be attended as a stand alone experience, registrants are encouraged to attend all four sessions to maximize their knowledge and skills. Join our international experts for this unique lab experience, complete with bone models, hexapod external fixators, and computer software programs to generate prescription for deformity correction.

Chair: *Christof Radler, MD*

Faculty: *John E. Herzenberg, MD*

Gerard Montgomery MSN, FNP-C

**Case & Controversies in Neuromuscular
Conditions of the Upper Limb**

 Case-based discussion of how to treat common upper limb deformities in children with cerebral palsy and arthrogryposis, including examination pearls and surgical techniques.

Moderator: *Peter M. Waters, MD*

Cerebral Palsy

- | | |
|----------|--|
| 10:30 AM | Introduction
<i>Peter M. Waters, MD</i> |
| 10:32 AM | Case Presentation
<i>Peter M. Waters, MD</i> |
| 10:36 AM | The Pronated Forearm
<i>Peter M. Waters, MD</i> |
| 10:44 AM | The Flexed Wrist
<i>Charles Goldfarb, MD</i> |
| 10:52 AM | The Thumb in Palm
<i>Scott Kozin, MD</i> |
| 11:00 AM | Q&A
Panelists: <i>Peter M. Waters, MD</i>
<i>Charles Goldfarb, MD</i>
<i>Scott Kozin, MD</i>
<i>Christine Ho, MD</i> |

Arthrogryposis

Moderator: *Scott Kozin, MD*

- | | |
|----------|---|
| 11:15 AM | Case Presentation
<i>Scott Kozin, MD</i> |
| 11:19 AM | Evaluation of the UE in AMC
<i>Christine Ho, MD</i> |
| 11:27 AM | Master Technique:
Restoring Elbow Motion
<i>Scott Kozin, MD</i> |
| 11:34 AM | Master Technique: Carpal Osteotomy
<i>Peter M. Waters, MD</i> |
| 11:41 AM | Master Technique: First Web Space
<i>Charles Goldfarb, MD</i> |
| 11:48 AM | Discussion
Panelists: <i>Peter M. Waters, MD</i>
<i>Charles Goldfarb, MD</i>
<i>Scott Kozin, MD</i>
<i>Christine Ho, MD</i> |

Cases and Complications in the Immature Hip

 Join our IPOS faculty for brief presentations, debates, and case-based discussions of the immature hip. Topics covered will include infant hip dysplasia as well as Perthes disease.

Moderator: *Ernest L. Sink, MD*

DDH in the Infant

- | | |
|----------|--|
| 10:30 AM | Mild Dysplasia: Pavlik Harness,
Abduction Bracing or Observation?
<i>Ernest L. Sink, MD</i>
Panelists: <i>Lori A. Karol, MD</i>
<i>Kishore Mulpuri, MD</i> |
| 10:37 AM | Closed Reduction:
What is Good Enough?
<i>Thomas Wirth, MD, PhD</i> |

Debates

- | | |
|----------|--|
| 10:44 AM | It is Best to Perform the Open Reduction
Before Walking Age
<i>Deborah Eastwood, FRCS</i> |
| 10:51 AM | It is Best to Wait Until 18 Months of Age
to Add a Acetabular Procedure
<i>Pablo Castaneda, MD</i> |
| 10:58 AM | Discussion/Case
<i>Ernest L. Sink, MD</i>
Panelists: <i>Deborah Eastwood, FRCS</i>
<i>Pablo Castaneda, MD</i> |
| 11:09 AM | Why Did this Open Reduction Fail?
<i>Ira Zaltz, MD</i>
Panelists: <i>Ernest L. Sink, MD</i>
<i>Deborah Eastwood, FRCS</i>
<i>Pablo Castaneda, MD</i> |
| 11:16 AM | Pelvic Osteotomies
<i>Jose A. Herrera Soto, MD</i> |

Perthes

- | | |
|----------|---|
| 11:23 AM | Assessment and Imaging in 2018
<i>Wudbhav N. Sankar, MD</i> |
| 11:29 AM | Nonoperative Treatment Works and
Here's Why
<i>Stephen A. Albanese, MD</i> |
| 11:35 AM | Early Surgical Containment is the Key
<i>David G. Little, MBBS, FRACS, PhD</i> |
| 11:41 AM | Salvage Procedures and Managing
Hinge Abduction
<i>Daniel J. Sucato, MD, MS</i> |
| 11:46 AM | Case Discussion
<i>Wudbhav N. Sankar, MD</i>
Panelists: <i>Stephen A. Albanese, MD</i>
<i>David G. Little, MBBS, FRACS, PhD</i>
<i>Daniel J. Sucato, MD, MS</i> |

**Register Online Today at
ipos.posna.org**

Wednesday, November 28, continued

10:30 AM–12:00 PM **CME BREAKOUT SESSIONS
continued**

Dysplasias and Syndromes

 This session focuses on the evaluation and treatment of skeletal dysplasias and syndromes. Included will be discussions of lower limb deformity and length discrepancies, spinal deformity in genetic disorders, and overgrowth syndromes of the upper limb.

Moderator: *William G. Mackenzie, MD*

Skeletal Dysplasia

- 10:30 AM Introduction
William G. Mackenzie, MD
- 10:33 AM Genu Varum -
Assessment and Management
Michelle S. Caird, MD
- 10:40 AM Genu Valgum -
Assessment and Management
Haemish Crawford, MD
- 10:47 AM Limb Lengthening for Stature
Dror Paley, MD
- 10:54 AM Kyphosis: Achondroplasia vs MPS
Muharrem Yazici, MD
- 11:00 AM Discussion
Panelists: *Michelle S. Caird, MD*
Haemish Crawford, MD
Dror Paley, MD
Muharrem Yazici, MD

Neurofibromatosis

- 11:10 AM Neurofibromatosis Spinal Deformity:
Pearls and Pitfalls
David Farrington, MD
- 11:17 AM NF Ulnar Pseudarthrosis:
Brace or Operate?
Donald S. Bae, MD
- 11:23 AM NF Tibial Pseudarthrosis:
Evidence-Based Treatment
Lori Karol, MD
- 11:30 AM Discussion
Panelists: *David Farrington, MD*
Donald S. Bae, MD
Lori Karol, MD

Other Syndromes

- 11:40 AM Larsen's Syndrome: Management of Hip,
Knee and Foot Deformity
William G. Mackenzie, MD
- 11:47 AM MPS: Upper Extremity
Christine Ho, MD
- 11:54 AM Overgrowth Syndromes
Paul D. Sponseller, MD

Non-OP POPS

**POPS Presents: Special Considerations
for Early Onset Scoliosis**

Join faculty and members of the Pediatric Orthopaedic Practitioners Society for this update on the evaluation and treatment of early onset scoliosis.

Epidemiology
Clinical Evaluation
Radiographic Assessment
Non-operative Management: Risser casting
Non-operative Management: Bracing
Surgery for Distraction
Surgery for Guided Growth
Perioperative Management of the EOS Patient
Case Presentations and Panel Discussion

12:00 PM–1:00 PM **LUNCH and EXHIBITS**



Wednesday, November 28, continued

1:00 PM–3:10 PM



**CONCURRENT SESSION 1 –
Medical and Surgical Treatment
of the Neuromuscular Patient**

Join our IPOS faculty for discussion of tone management, neuromuscular hip dysplasia, and spinal deformity in patients with cerebral palsy.

1:00 PM Moderator: *Jon R. Davids, MD*
eModerator: *Benjamin J. Shore, MD MPH*

Tone Management Options for Non-ambulatory Patient

- 1:00 PM Introduction
Jon R. Davids, MD
- 1:02 PM Botox (Indications/Ideal Candidate)
Benjamin J. Shore, MD, MPH
- 1:08 PM Oral Baclofen
(Indications/Ideal Candidate)
David A. Spiegel, MD
- 1:14 PM Intrathecal Baclofen Pump
(Indications/Ideal Candidate)
James J. McCarthy, MD
- 1:19 PM Selective Dorsal Rhizotomy
(Indications/Ideal Candidate)
Tom F. Novacheck, MD
- 1:25 PM Discussion
Panelists: *Benjamin J. Shore, MD MPH*
David A. Spiegel, MD
James J. McCarthy, MD
Tom F. Novacheck, MD

Neuromuscular Hip Dysplasia

- 1:30 PM Pathophysiology / Pathoanatomy /
Natural History
Jon R. Davids, MD
- 1:36 PM Hip Surveillance: The Evidence /
The Guidelines / Challenges to
Implementation
Kishore Mulpuri, MD
- 1:42 PM Soft Tissue Surgery:
Indications / Technique / Pearls
Jonathan H. Phillips, MD
- 1:48 PM Skeletal Surgery: Femoral Osteotomy
Indications / Technique / Pearls
Benjamin J. Shore, MD MPH
- 1:54 PM Pelvic Osteotomy
Indications / Technique / Pearls
Robert Michael Kay, MD
- 2:00 PM Pelvic Osteotomy in Skeletally Mature
Indications/Technique/Pearls
Tom F. Novacheck, MD
- 2:06 PM Palliative Surgery:
Indications/Technique/Pearls
Jon R. Davids, MD

2:14 PM

Discussion

Panelists: *Jon R. Davids, MD*
Kishore Mulpuri, MD
Jonathan H. Phillips, MD
Benjamin J. Shore, MD, MPH,
Robert Michael Kay, MD
Tom F. Novacheck, MD

2:25 PM

Moderator: *Lindsay Andras, MD*
eModerator: *Nicholas Fletcher, MD*

Neuromuscular Spine Deformity

- 2:25 PM Pathophysiology, Natural History,
Surveillance and Assessment
Lindsay Andras, MD
- 2:33 PM Nonsurgical Management
David A. Spiegel, MD
- 2:39 PM Preoperative Traction & Staged Releases
Michael P. Glotzbecker, MD
- 2:45 PM Surgical Management:
Indications / Technique / Pearls
Suken A. Shah, MD
- 2:53 PM Concomitant Spine/Hip Disease:
Pathophysiology / Treatment Options
Mark A. Erickson, MD
- 2:58 PM Discussion
Panelists: *Lindsay Andras, MD*
David A. Spiegel, MD
Michael P. Glotzbecker, MD
Suken A. Shah, MD
Mark A. Erickson, MD

1:00 PM–3:10 PM



**CONCURRENT SESSION 2 –
Congenital Conditions and Trauma
of the Upper Limb**

When faced with late-presenting conditions or complications of upper limb fractures, often we ask whether it's better to observe or intervene. Join our IPOS faculty in exploring treatment options for complications of upper extremity trauma.

Moderator: *Donald S. Bae, MD*
eModerator: *Martin Herman, MD*

Complications of UE Trauma: Observe or Operate?

- 1:00 PM Introduction
Donald S. Bae, MD
- 1:02 PM Late Presenting Posterior SCJ
Peter M. Waters, MD
- 1:08 PM Lateral Condyle Nonunion
Haemish Crawford, MD
- 1:14 PM Chronic Monteggia
Scott Kozin, MD
- 1:20 PM Discussion
Panelists: *Peter M. Waters, MD*
Haemish Crawford, MD
Scott Kozin, MD

Wednesday, November 28, continued

1:00 PM–3:10 PM	CONCURRENT SESSION 2 continued
1:35 PM	Radial Neck Malunion <i>Charles Goldfarb, MD</i>
1:41 PM	Forearm Malunion <i>Martin Herman, MD</i>
1:47 PM	DRF Growth Arrest <i>Donald Bae, MD</i>
1:52 PM	Discussion Panelists: <i>Charles Goldfarb, MD</i> <i>Martin Herman, MD</i> <i>Christine Ho, MD</i>

Controversies in Common Congenital Conditions

Our expert faculty in congenital hand and upper limb differences explore current controversies in the treatment of syndactyly, radial longitudinal dysplasia, and radioulnar synostosis in this case-based session.

Moderator: *Peter M. Waters, MD*
eModerator: *Christine Ho, MD*

2:00 PM	Case Presentation: Syndactyly <i>Donald S. Bae, MD</i>
2:03 PM	Release It with Skin Graft <i>Scott Kozin, MD</i>
2:09 PM	Graftless and/or Matrix is Better <i>Charles Goldfarb, MD</i>
2:14 PM	Discussion Panelist: <i>Peter M. Waters, MD</i> <i>Scott Kozin, MD</i> <i>Charles Goldfarb, MD</i>

RLD: Observe vs Centralize vs Mobilize

2:20 PM	Case Presentation: RLD <i>Scott Kozin, MD</i>
2:23 PM	Centralization is Tried Tested and True <i>Charles Goldfarb, MD</i>
2:29 PM	Centralization not Enough: Need to Ulnarize! <i>Dror Paley, MD</i>
2:35 PM	Motion Preserving Procedures are Better! <i>Peter M. Waters, MD</i>
2:40 PM	Discussion Panelists: <i>Charles Goldfarb, MD</i> <i>Dror Paley, MD</i> <i>Peter M. Waters, MD</i>

RUS: Gradual or Acute

2:50 PM	Case Presentation on RUS <i>Donald S. Bae, MD</i>
2:53 PM	Single-stage Correction: Set It and Forget It <i>Peter M. Waters, MD</i>
2:59 PM	Gradual Correction: Safer and more Powerful <i>Christine Ho, MD</i>
3:04 PM	Discussion Panelists: <i>Peter M. Waters, MD</i> <i>Christine Ho, MD</i> <i>Scott Kozin, MD</i>

3:09 PM	Break & Exhibits
3:30 PM–4:40 PM	Industry Spotlight Sessions* (Non-CME)
4:40 PM–6:00 PM	Industry Spotlight Sessions* (Non-CME)



Thursday, November 29

6:30 AM–4:30 PM	REGISTRATION
6:30 AM–7:30 AM	BREAKFAST and EXHIBITS
7:30 AM–8:40 AM	Industry Spotlight Sessions*
8:40 AM	Break & Exhibits

9:00 AM–11:30 AM	GENERAL SESSION 2- Global Orthopaedics  Whether you are interested in international work or want to learn how global practices can improve your local care, don't miss this forum on global pediatric orthopaedics! Our international experts will describe the burden of musculoskeletal disease worldwide, provide lessons learned from treating late-presenting conditions, and share stories of individual and programmatic success worldwide. Moderator: <i>David A. Spiegel, MD</i> eModerator: <i>Coleen S. Sabatini, MD</i>
	Burden of Disease
9:00 AM	Introduction: Musculoskeletal Disease Worldwide <i>David A. Spiegel, MD</i>
9:06 AM	Burden of Disease: Clubfoot <i>Matthew Varghese, MS</i>
9:13 AM	Burden of Disease: Infection <i>Richard M. Schwend, MD</i>
9:20 AM	Discussion Panelists: <i>David A. Spiegel, MD</i> <i>Matthew Varghese, MS</i> <i>Richard M. Schwend, MD</i>

Thursday, November 29, continued

**9:00 AM–11:30 AM GENERAL SESSION 2
continued**

Global Lessons for Local Care

Moderator: *Jon R. Davids, MD*

- 9:30 AM Clubfoot:
Late Release and Arthrodeses
Jon R. Davids, MD
- 9:38 AM Infection: Chronic Osteomyelitis
David A. Spiegel, MD
- 9:46 AM Polio and Acute Flaccid Myelitis (AFM)
Matthew Varghese, MS
- 9:54 AM Discussion
Panelists: *Jon R. Davids, MD*
David A. Spiegel, MD
Matthew Varghese, MS
- 10:00 AM CP: Late Treatment
(Braces, Reconstruction)
Tom F. Novacheck, MD
- 10:08 AM Untreated DDH/Perthes
Kishore Mulpuri, MD
- 10:16 AM Congenital UE:
Novel Solutions with Limited Resources
Charles Goldfarb, MD
- 10:24 AM Burn Contractures
Scott Kozin, MD
- 10:31 AM Discussion
Panelists: *Tom F. Novacheck, MD*
Kishore Mulpuri, MD
Charles Goldfarb, MD

Personal Stories, Successful Programs

Moderator: *Kenneth J. Noonan, MD*

- 10:40 AM Grassroot Efforts that Work
Kenneth J. Noonan, MD
- 10:46 AM Society Efforts that Work (THP)
Scott Kozin, MD
- 10:52 AM NGO Efforts that Work
Matthew Varghese, MS
- 10:58 AM QSVI: Home and Away
Coleen S. Sabatini, MD
- 11:04 AM Registries and Research: Best Practices
Pablo Castaneda, MD
- 11:10 AM Get Involved: COUR
Coleen S. Sabatini, MD
- 11:15 AM Discussion
Panelists: *Kenneth J. Noonan, MD*
Scott Kozin, MD
Matthew Varghese, MS
Coleen S. Sabatini, MD
Pablo Castaneda, MD

11:30 AM–12:30 PM LUNCH and EXHIBITS

12:30 PM–2:00 PM CME BREAKOUT SESSIONS
(Advance Sign-up Encouraged for
Hands-on Workshops)

Ponseti I (hands-on workshop)



From the fundamental principles to technical pearls, learn from our international experts the technique of Ponseti casting for clubfoot.

Chair: *Kenneth J. Noonan, MD*

Faculty: *Jon R. Davids, MD*
Alain Dimeglio, MD
Derek Kelly, MD
Vincent S. Mosca, MD

**Six Axis Deformity Correction with
Circular Fixator I II: Tibia Fracture Management**



(hands-on workshop)

This hands-on workshop will guide you through six-axis deformity correction using circular external fixators. While each breakout session may be attended as a stand alone experience, registrants are encouraged to attend all four sessions to maximize their knowledge and skills. Join our international experts for this unique lab experience, complete with bone models, hexapod external fixators, and computer software programs to generate prescription for deformity correction.

Chair: *Christof Radler, MD*

Faculty: *John E. Herzenberg, MD*
Reid Nichols, MD
Deborah Eastwood, FRCS

**Medical Advances in Musculoskeletal Health
and Disease**



We are all stewards of musculoskeletal health in children! Join us in this interactive session, covering topics ranging from calcium and vitamin D deficiency to novel medical therapies for orthopaedic conditions.

Moderator: *Michelle S. Caird, MD*

Vitamin D and Ca

- 12:30 PM Introduction
Michelle S. Caird, MD
- 12:33 PM Just the Basics:
A Primer on Bone Metabolism
Michelle S. Caird, MD
- 12:41 PM Recurrent Fractures:
When to Get a Blood Test and Treat?
Susan A. Scherl, MD
- 12:49 PM Rickets: How to Recognize and Treat
David Farrington, MD
- 12:57 PM The Female Triad:
Approach to Management
Jennifer M. Weiss, MD
- 1:05 PM Discussion
Panelists: *Michelle S. Caird, MD*
Susan A. Scherl, MD
David Farrington, MD
Jennifer M. Weiss, MD

Thursday, November 29, continued

**12:30 PM–2:00 PM CME BREAKOUT SESSIONS
continued**

Cutting Edge Treatment

- 1:20 PM Biphosphonates:
Current Uses in Pediatric Orthopaedics
David G. Little, MBBS, FRACS, PhD
- 1:26 PM Paloveratene for MHE
Dror Paley, MD
- 1:32 PM Medical Therapies for Vascular
Malformations & Overgrowth
Syndromes
Scott Kozin, MD
- 1:38 PM Steroids/Adjuvants for UBC
Alexandre Arkader, MD
- 1:43 PM Discussion
Panelists: *David G. Little, MBBS, FRACS, PhD*
Dror Paley, MD
Scott Kozin, MD

Pelvic Osteotomies I: Salter, Dega, Pemberton



(hands-on workshop)

Join our international experts for a unique hands-on workshop in the techniques of pelvic osteotomies.

Faculty: *Ernest L Sink, MD*
Wudbhav N Sankar, MD
Jose A. Herrera Soto, MD
Stephen A Albanese, MD
Thomas Wirth, MD, PhD

Hip and Elbow Conditions in the Young Athlete



Care of the pediatric athlete's hip and elbow will be covered in this sports session. Highlights will include evaluation and treatment of labral pathology in the young athlete's hip, as well as a case-based approach to injuries of the elbow in throwing and overhead athletes.

Moderator: *Mininder S. Kocher, MD, MPH*

The Painful Hip

- 12:30 PM Intro Case Presentation
Mininder S. Kocher, MD, MPH
- 12:33 PM Labral Tears: Why Do They Happen?
Ira Zaltz, MD
- 12:39 PM High Yield History, Exam, and Imaging
Michael T. Busch, MD
- 12:46 PM Labral Tear: Repair or Debride?
Mininder S. Kocher, MD, MPH
- 12:55 PM Don't Treat the Symptoms,
Treat the Cause: Cut the Pelvis!
Ira Zaltz, MD
- 1:00 PM Q&A and Cases
Mininder S. Kocher, MD, MPH
Panelists: *Michael T. Busch, MD*
Ira Zaltz, MD

Thrower's Elbow: Case-based Discussion

Moderator: *Donald S. Bae, MD*
Panelists: *Theodore J. Ganley, MD*
Michael T. Busch, MD
Charles Goldfarb, MD
Kevin Shea, MD
Jennifer Weiss, MD

- 1:15 PM Introduction
Donald S. Bae, MD
- 1:17 PM Medial Epicondyle Fracture
Donald S. Bae, MD
- 1:30 PM Osteochondritis Dissecans of the Elbow
Donald S. Bae, MD
- 1:45 PM Ulnar Collateral Ligament Tear
Donald S. Bae, MD



POPS: Perioperative Management of the CP Patient



Join our IPOS and POPS faculty as we discuss the optimal perioperative management of patients with neuromuscular disease. Topics will include perioperative pain control, post-surgical tone management, and strategies to prevent postoperative complications.

Moderator: *TBD*

Faculty: *TBD*

- 12:30 PM Introduction
- 12:35 PM Preoperative Risk Assessment
- 12:44 PM Inpatient Care
- 12:53 PM Post-surgical Spasticity Management
- 1:02 PM Rehabilitation: Wheelchairs, Braces, and PT
- 1:10 PM Discussion
- 1:20 PM Common Post-operative Complications:
Prevention / Management
James J. McCarthy, MD
- 1:28 PM HRQL in Nonambulatory Children with CP-
Are We Making a Difference with Hip
and Spine Surgery?
Benjamin J. Shore, MD MPH
- 1:36 PM QSVI: Small Measures, Big Impact
Daniel J. Sucato, MD, MS
- 1:44 PM Discussion

2:00 PM

Break & Exhibits

Thursday, November 29, continued

2:20 PM–4:30 PM



**CONCURRENT SESSION 3 –
Hip Conditions in the Older Child
and Adolescent**

Treatment of SCFE and hip dysplasia in the older child/adolescent will be covered in this dynamic interactive session, highlighted by master technique presentations and case-based discussions about the treatment of complications.

SCFE

Moderator: *Steven L. Frick, MD*
eModerator: *Ernest L. Sink, MD*

- 2:20 PM What Defines a Stable and Unstable SCFE?
Kishore Mulpuri, MD
- 2:26 PM Stable SCFE Standards of Care
Todd A. Milbrandt, MD
- 2:31 PM Acute Unstable: What Should We Do?
Daniel J. Sucato, MD, MS
- 2:37 PM Master Technique: Perfusion Monitoring for Pinning
Jonathan G. Schoenecker, MD
- 2:43 PM Master Technique: Modified Dunn
Wudbhav N. Sankar, MD
- 2:49 PM Modified Dunn Outcomes in 2018: Risk, Rewards and Limits
Ira Zaltz, MD
- 2:55 PM AVN: How to Diagnose and What to Do?
Steven L. Frick, MD
- 3:00 PM Cases and Complications
Steven L. Frick, MD
Panelists: *Kishore Mulpuri, MD*
Noelle Larson, MD
Daniel J. Sucato, MD, MS
Wudbhav N. Sankar, MD
Ira Zaltz, MD
Jonathan G. Schoenecker, MD

DDH in Older Child/Adolescent

Moderator: *Ira Zaltz, MD*
eModerator: *Wudbhav N. Sankar, MD*

- 3:17 PM Imaging: Standard of Care and Cutting Edge
Wudbhav N. Sankar, MD
- 3:23 PM Hip Arthroscopy: What Does the Data Show?
Ernest L. Sink, MD
- 3:29 PM Master Technique: Hip Arthroscopic Osteoplasty and Labral Repair
Mininder S. Kocher, MD, MPH
- 3:35 PM Pelvic Osteotomies: When and Why
Deborah Eastwood, FRCS
- 3:41 PM Master Technique: PAO
Ernest L. Sink, MD

3:47 PM

Complications of PAO
Ira Zaltz, MD

3:53 PM

Discussion
Panelists: *Wudbhav N. Sankar, MD*
Ernest L. Sink, MD
Mininder S. Kocher, MD, MPH
Deborah Eastwood, FRCS
Ira Zaltz, MD

Case-based Discussions

Moderator: *David G. Little, MBBS, FRACS, PhD*
eModerator: *Ira Zaltz, MD*

- 4:00 PM Traumatic Hip Dislocations in Adolescents
Thomas Wirth, MD, PhD
- 4:09 PM AVN After Femoral Neck Fracture
David G. Little, MBBS, FRACS, PhD
- 4:19 PM Down Syndrome Hips: How Are They Different and What Do We Do?
Wudbhav N. Sankar, MD
- 4:20 PM Discussion
Panelists: *Thomas Wirth, MD, PhD*
David G. Little, MBBS, FRACS, PhD
Wudbhav N. Sankar, MD
Kishore Mulpuri, MD

2:20 PM–4:30 PM



**CONCURRENT SESSION 4 –
Skeletal Deformity Correction in
MHE and OI**

A comprehensive discussion of the treatment of skeletal deformity in patients with multiple hereditary exostoses (MHE) and osteogenesis imperfecta (OI).

Multiple Hereditary Exostoses

Moderator: *William G. Mackenzie, MD*
eModerator: *Coleen S. Sabatini, MD*

- 2:20 PM Introduction
William G. Mackenzie, MD
- 2:23 PM MHE- Introduction and Medical Management
Dror Paley, MD
- 2:30 PM Neurological Problems in MHE
Reid Nichols, MD
- 2:37 PM Natural History of MHE in Forearm- Does It Matter?
Charles Goldfarb, MD
- 2:44 PM Early vs Late Surgery for the Forearm
Scott Kozin, MD
- 2:51 PM Discussion
Panelists: *Dror Paley, MD*
Reid Nichols, MD
Charles Goldfarb, MD
Scott Kozin, MD

Thursday, November 29, continued

2:20 PM–4:30 PM	CONCURRENT SESSION 4 continued
3:00 PM	MHE- About the Hip <i>Nicholas Fletcher, MD</i>
3:07 PM	MHE - Management of LLD and Progressive Malalignment <i>Christof Radler, MD</i>
3:14 PM	Master Technique: 6-Axis Deformity Correction <i>John E. Herzenberg, MD</i>
3:20 PM	Cases & Discussion <i>William G. Mackenzie, MD</i>
	Osteogenesis Imperfecta
	Moderator: <i>Michelle S. Caird, MD</i> eModerator: <i>Coleen S. Sabatini, MD</i>
3:40 PM	Genetics and Classification for the Orthopedist in 2018 <i>Reid Nichols, MD</i>
3:47 PM	Medical Therapy: When, Why, and How <i>Michelle S. Caird, MD</i>
3:54 PM	Spinal Deformity in OI <i>Suken A. Shah, MD</i>
4:01 PM	The Upper Limb in OI: When to Intervene? <i>Scott Kozin, MD</i>
4:08 PM	The Lower Limb in OI - Hip and Long Bone Deformity <i>David Farrington, MD</i>
4:15 PM	Master Technique: Telescoping Rod Insertion <i>Michelle S. Caird, MD</i>
4:22 PM	Discussion Panelists: <i>Reid Nichols, MD</i> <i>Michelle S. Caird, MD</i> <i>Suken A. Shah, MD</i> <i>Scott Kozin, MD</i> <i>David Farrington, MD</i>

5:00 PM–7:30 PM **Top Gun:
Surgical Simulation
Competition**
(By Invitation Only)

Friday, November 30

6:30 AM–5:00 PM	REGISTRATION
6:30 AM–7:30 AM	BREAKFAST and EXHIBITS
7:30 AM–8:40 AM	Industry Spotlight Sessions*
8:40 AM	Break & Exhibits
9:00 AM–11:30 AM	CONCURRENT SESSION 5 – Adolescent Idiopathic and Early Onset Scoliosis Join our international experts for this session on adolescent idiopathic and early onset scoliosis. From bracing strategies, to preoperative planning, to master surgical techniques, learn cutting-edge and evidence-based treatment of spinal deformity. Moderator: <i>Michael G. Vitale, MD, MPH</i> eModerator: <i>Michael P. Glotzbecker, MD</i>
	AIS
9:00 AM	Introduction <i>Michael G. Vitale, MD, MPH</i>
	Before the Incision
9:02 AM	Bracing: How Can We Do Better? <i>Michael G. Vitale, MD, MPH</i>
9:11 AM	Choosing Levels: My Three Rules for Leveling the Shoulders <i>Lindsay Andras, MD</i>
9:16 AM	Choosing Levels: My Three Rules for Choosing Lowest Instrumented Vertebra <i>Laurel C. Blakemore, MD</i>
9:21 AM	Choosing Levels: My Three Rules for Selective Thoracic Fusion <i>Suken A. Shah, MD</i>
9:26 AM	Discussion
9:35 AM	Cases for the Panel: Difficult Decisions in Level Selection <i>Brian G. Smith, MD</i> Panelists: <i>Laurel C. Blakemore, MD</i> <i>Steven Albanese, MD</i> <i>Muharrem Yacizi, MD</i>
	Optimizing Technical Execution: Master Tips and Trick
9:50 AM	Power Screw Insertion <i>David Lee Skaggs, MD</i>
9:56 AM	Apical Derotation <i>Muharrem Yacizi, MD</i>
10:02 AM	Restoring Kyphosis <i>Peter O. Newton, MD</i>
10:08 AM	Discussion

Friday, November 30, continued

2:20 PM–4:30 PM

**CONCURRENT SESSION 5
continued**

**Good Judgment Comes from Bad Experience:
Panel Discussion**

10:19 AM Case for Panel:
Shoulders not Level Postop
David Lee Skaggs, MD
Panelists: *David Lee Skaggs, MD*
Muharrem Yazici, MD
Peter Newton, MD
Michael G. Vitale, MD, MPH

10:27 AM Case for Panel: STF Looks Bad
Muharrem Yazici, MD
Panelists: *David Lee Skaggs, MD*
Muharrem Yazici, MD
Peter Newton, MD
Michael G. Vitale, MD, MPH

Quality, Safety, Value in Spinal Surgery

10:36 AM Make YOUR OR Function More Efficiently
John M. Flynn, MD

10:42 AM Preventing Infection in the High Risk Child
Richard M. Schwend, MD

10:48 AM Postop Pathways that Make Care Better
Nicholas Fletcher, MD

10:54 AM Discussion

EOS and Nonidiopathic Scoliosis

11:00 AM Evidence-based Update on MAGEC
Michael P. Glotzbecker, MD

11:06 AM Evidence-based Update on Tethering
Peter O. Newton, MD

11:12 AM Debate:
When to Fuse to Pelvis in GMFCS 4/5
Suken A. Shah, MD
and *Mark Erickson, MD*

11:20 AM Debate:
Early Fusion vs. "Growth Friendly"
Strategies
Paul A. Sponseller, MD
and *David Farrington, MD*

11:28 AM Discussion

9:00 AM–11:30 AM



**CONCURRENT SESSION 6 –
Knee Injuries in the Young Athlete**

Learn contemporary perspectives and master techniques in the care of ACL injuries and patellofemoral instability. Brief presentations will be followed by case-based discussions of common complications and challenging conditions.
Moderator: *Theodore J. Ganley, MD*
eModerator: *Javier Masquijo, MD*

ACL

9:00 AM Introduction
Theodore J. Ganley, MD

Preoperative Care

9:04 AM Prehab/Prevention/Risk Factors
Jennifer M. Weiss, MD

9:10 AM Is There a Role for Bracing?
Theodore J. Ganley, MD

Surgical Techniques

9:16 AM Technique:
Physcal Sparing All Epiphseal
Kevin G. Shea, MD

9:23 AM Technique:
Physcal Sparing ITB
Michael T. Busch, MD

9:30 AM Technique:
Anterolateral Ligament Reconstruction
James Hoi Po Hui, FRCSE

9:37 AM BEAR, Biologics, and the Future
Mininder S. Kocher, MD, MPH

9:43 AM Q&A
Theodore J. Ganley, MD

ACL Cases

9:50 AM Case Discussions
Theodore J. Ganley, MD
Panelists: *Michael T. Busch, MD*
James Hoi Po Hui, FRCSE
Mininder S. Kocher, MD, MPH
Jennifer M. Weiss, MD
Kevin G. Shea, MD

Patellofemoral Instability

Moderator: *Michael T. Busch, MD*
eModerator: *Jennifer M. Weiss, MD*

10:15 AM Intro Case Presentation
Michael T. Busch, MD

10:18 AM My Top 5 Physical Examination Pearls
in PF Instability
Javier Masquijo, MD

10:24 AM My Top 5 Radiographic Evaluation Pearls
in PF Instability
Jennifer M. Weiss, MD

10:30 AM How to Optimize Non-operative Care
Michael T. Busch, MD

10:38 AM Q&A
Michael T. Busch, MD
Panelists: *Theodore J. Ganley, MD*
Jennifer M. Weiss, MD



Friday, November 30, continued

10:45 AM	MPFL Reconstruction Technique: Quad <i>Mininder S. Kocher, MD, MPH</i>
10:53 AM	MPFL Reconstruction Technique: Hamstring <i>Kevin G. Shea, MD</i>
11:01 AM	Tibial Tubercleplasty: Indications and Techniques <i>James Hoi Po Hui, FRCSE</i>
11:09 AM	Questions and Cases <i>Michael T. Busch, MD</i> Panelists: <i>Theodore J. Ganley, MD</i> <i>Jennifer M. Weiss, MD</i> <i>Mininder S. Kocher, MD, MPH</i> <i>James Hoi Po Hui, FRCSE</i> <i>Kevin G. Shea, MD</i>

11:30 AM–12:30 PM LUNCH and EXHIBITS

12:30 PM–2:50 PM	GENERAL SESSION 3- Authors' Preferred Techniques  An IPOS signature session! Join our international faculty as they share mastersurgical techniques in short, video-based presentations. Moderator: <i>John M. Flynn, MD</i> eModerator: <i>A. Noelle Larson, MD</i>
12:30 PM	Introduction <i>John M. Flynn, MD</i>
12:33 PM	MPFL Reconstruction for Patellar Instability <i>Mininder S. Kocher, MD, MPH</i>
12:39 PM	Talar OCD Drilling and Fixation <i>Michael T. Busch, MD</i>
12:45 PM	Arthroscopic Assisted TFCC Repair <i>Donald S. Bae, MD</i>
12:51 PM	Discussion
12:56 PM	Subtalar Coalition Excision with Navigation <i>Kenneth J. Noonan, MD</i>
1:02 PM	Plantar Medial Release for Cavovarus Foot Deformity <i>Vincent S. Mosca, MD</i>
1:08 PM	Graftless Syndactyly Release with Local Flaps and/or HA Matrix <i>Charles Goldfarb, MD</i>
1:14 PM	Discussion
1:19 PM	Femoral Neck Fx with Capsular Decompression <i>Steven L. Frick, MD</i>
1:25 PM	Late Monteggia Reconstruction <i>Peter M. Waters, MD</i>
1:31 PM	ORIF of Tibial Tubercle Fracture <i>Jeffrey Sawyer, MD</i>

1:37 PM	Discussion
1:42 PM	Proximal Femoral Osteotomy after Prior SCFE in situ Pinning <i>Daniel J. Sucato, MD, MS</i>
1:48 PM	Femoral Head Reduction in Perthes <i>Dror Paley, MD</i>
1:54 PM	Internal Lengthening Nail for the Femur <i>John E. Herzenberg, MD</i>
2:00 PM	Discussion
2:05 PM	MAGEC Insertion vs Serial Lengthenings <i>Michael G. Vitale, MD, MPH</i>
2:11 PM	Ponte Osteotomies <i>Paul D. Sponseller, MD</i>
2:17 PM	VDRO in Dislocated CP Hip <i>Benjamin J. Shore, MD MPH</i>
2:23 PM	Discussion
2:28 PM	FCU or ECU to ECRB Transfer <i>Scott Kozin, MD</i>
2:34 PM	McFarland Bypass Grafting for Tibial Pseudarthrosis <i>Lori A. Karol, MD</i>
2:40 PM	Telescoping Nail for Osteogenesis Imperfecta <i>Michelle S. Caird, MD</i>
2:46 PM	Discussion

2:50 PM–3:05 PM **Awards and Acknowledgments**

3:05 PM Break & Exhibits



Friday, November 30, continued

3:30 PM–5:00 PM CME BREAKOUT SESSIONS

(Advance Sign-up Encouraged for
Hands-on Workshops)

Ponseti II: Case-based Discussions



From the fundamental principles to technical pearls,
learn from our international experts the technique of
Ponseti casting for clubfoot.

Chair: *Vincent S. Mosca, MD*

Faculty: *Alain Dimeglio, MD*

Steven L. Frick, MD

Derek Kelly, MD

Kenneth J. Noonan, MD

**Six Axis Deformity Correction with
Circular Fixator III: Blout's Disease**



(hands-on workshop)

This hands-on workshop will guide you through six-axis
deformity correction using circular external fixators. While each
breakout session may be attended as a stand alone experience,
registrants are encouraged to attend all four sessions to maxi-
mize their knowledge and skills. Join our international experts
for this unique lab experience, complete with bone models,
hexapod external fixators, and computer software programs to
generate prescription for deformity correction.

Chair: *Christof Radler, MD*

Faculty: *John E. Herzenberg, MD*

Deborah Eastwood, FRCS

Reid Nichols, MD

Musculoskeletal Infections



A live simulcast webinar for all orthopaedic providers!

This session will cover a broad spectrum of topics,
including antibiotic resistant organisms, treatment of
necrotizing fasciitis, surgical options for late presenting osteo-
myelitis, and contemporary strategies for spinal infection.

Moderator: *Jonathan G. Schoenecker, MD*

Musculoskeletal Infection for the Orthopaedic Surgeon

3:30 PM Introduction
Jonathan G. Schoenecker, MD

3:33 PM Antibiotic Stewardship:
When to Use Perioperative Antibiotics?
Bryan J. Tompkins, MD

3:39 PM MRSA and Resistant Organisms:
Where, When, and How to Treat?
Alexandre Arkader, MD

3:45 PM Imaging for Infection in 2018:
Best Practices
Amy L. McIntosh, MD

3:50 PM Discussion

3:56 PM Diagnosing Septic Arthritis of the Hip:
Kocher Criteria and Beyond
Brian G. Smith, MD

4:02 PM Necrotizing Fasciitis:
An Orthopaedic Emergency?
Jonathan G. Schoenecker, MD

4:08 PM Strategies for Chronic Osteomyelitis
Matthew Varghese, MS

4:14 PM Salvages for AVN after Septic Hip
Arthritis
Jose A. Herrera Soto, MD

4:20 PM Infected Long-bone Nonunion:
Resect? Span? Fix? Transport?
Haemish Crawford, MD

4:26 PM Discussion

Global Perspectives on Spinal Infection: Cases

4:32 PM Global Perspectives on Spinal Infection:
A Case-Based Discussion

Moderator: *Michael G. Vitale, MD, MPH*

Panelists: *Mark A. Erickson, MD*

Michael P. Glotzbecker, MD

Vishwas R. Talwalker, MD

Muharrem Yacizi, MD

Pelvic Osteomies II: Triple, PAO



(hands-on workshop)

Join our international experts for a unique hands-on
workshop in the techniques of pelvic osteotomies.

Faculty: *Ernest L Sink, MD*

Stephen A Albanese, MD

Thomas Wirth, MD, PhD

Wudbhav N Sankar, MD

Ira Zaltz, MD

Gait I: Normal vs Pathological Gait



First of two sessions on observational and qualitative
gait analysis, with specific focus on gait disturbances
in cerebral palsy.

Moderator: *Benjamin J. Shore, MD, MPH*

3:30 PM Introduction
Tom F. Novacheck, MD

3:33 PM Observational Gait Analysis
Robert Michael Kay, MD

3:49 PM Qualitative Gait Analysis:
Using the Gait Lab to Get the Data
Tom F. Novacheck, MD

4:05 PM Gait Disruption in Children with CP
James J. McCarthy, MD

4:21 PM Common Gait Deviations in CP
Benjamin J. Shore, MD MPH

4:37 PM Case Discussion
Robert Michael Kay, MD

Friday, November 30, continued

3:30 PM–5:00 PM

**CME BREAKOUT SESSIONS
continued**

POPS Presents:

Pediatric Fracture Clinic: In the Trenches

POPS Join faculty and members of the Pediatric Orthopaedic Practitioners Society for this interactive and practical session focused on front-line fracture care. Participants will rotate among three different focus areas, discussing physical examination pearls, radiographic assessment tips, and treatment insights.

Station A: Common Pediatric Upper Extremity Fractures

Physical examination
(demonstration and participation)
Radiographic interpretation
Treatment
(demonstration and participation for
splinting and casting)
Interactive Case Presentations

Station B: Common Pediatric Lower Extremity Fractures

Physical examination
(demonstration and participation)
Radiographic interpretation
Treatment
(demonstration and participation for
splinting and casting)
Interactive Case Presentations

Station A: Common Pediatric Knee Injuries

Physical examination
(demonstration and participation)
Radiographic interpretation
Treatment
(demonstration and participation for
splinting and casting)
Interactive Case Presentations

Spine: Spondylolysis and Spondylolisthesis

 From spondylolisthesis to kyphosis to tumors, our IPOS faculty will discuss contemporary evaluation and treatment of challenging pediatric spinal conditions.

Moderator: *Daniel J. Sucato, MD, MS*

Spondylolysis and Spondylolisthesis

3:30 PM	Introduction <i>Daniel J. Sucato, MD, MS</i>
3:33 PM	Clinical Evaluation & Imaging: How to Make the Diagnosis Every Time with Minimal Radiation <i>A. Noelle Larson, MD</i>
3:39 PM	Bracing: Does It Work? <i>David Lee Skaggs, MD</i>
3:45 PM	Discussion
3:51 PM	Surgical Treatment of Spondylolysis <i>David Farrington, MD</i>
3:58 PM	Surgical Treatment of High Grade Slip <i>Daniel J. Sucato, MD, MS</i>
4:05 PM	Discussion
Scheuermann's	
4:10 PM	What Is It? <i>Michael P. Glotzbecker, MD</i>
4:15 PM	Indications for Bracing... and What Brace to Use? <i>Laurel C. Blakemore, MD</i>
4:20 PM	Surgical Indications and Technique <i>A. Noelle Larson, MD</i>
4:25 PM	Discussion
Spinal Tumors (LCH, Bone Cysts, OCE, etc.)	
4:31 PM	LCH <i>Alexandre Arkader, MD</i>
4:37 PM	Cysts <i>Michael G. Vitale, MD, MPH</i>
4:43 PM	Discussion <i>Daniel J. Sucato, MD, MS</i>



**Register Online Today at
ipos.posna.org**

Saturday, December 1

6:30 AM–2:30 PM	REGISTRATION
6:30 AM–7:30 AM	BREAKFAST and EXHIBITS
7:30 AM–9:40 AM	GENERAL SESSION 4- The Child's Foot  An IPOS signature session! Our expert faculty will provide a comprehensive review of pediatric foot conditions. From clubfoot to vertical talus to common outpatient complaints, join us for this fast-paced, evidence-based program! Moderator: <i>Vincent S. Mosca, MD</i> eModerator: <i>Amy L. McIntosh, MD</i>
7:30 AM	Introduction <i>Vincent S. Mosca, MD</i>
'5 in 5'	
7:33 AM	5 Most Important Things to Know About Foot Biomechanics <i>Vincent S. Mosca, MD</i>
7:39 AM	5 Fundamental Principles in Pediatric Foot Assessment <i>Derek Kelly, MD</i>
7:45 AM	5 Most Common "Mistakes" in Pediatric Foot Surgery <i>Alain Dimeglio, MD</i>
7:50 AM	Discussion Panelists: <i>Vincent S. Mosca, MD</i> <i>Derek Kelly, MD</i> <i>Alain Dimeglio, MD</i>
Clubfoot	
7:55 AM	TEV: Ponseti Best Practices <i>Derek Kelly, MD</i>
8:01 AM	Heelcord Tenotomy in the Clinic: How I Do It <i>Lori A. Karol, MD</i>
8:07 AM	Bracing: How and for How Long <i>Alain Dimeglio, MD</i>
8:13 AM	Extensive Release for Recalcitrant or Late-presenting Clubfoot <i>Kenneth J. Noonan, MD</i>
8:18 AM	Discussion Panelists: <i>Derek Kelly, MD</i> <i>Lori A. Karol, MD</i> <i>Alain Dimeglio, MD</i> <i>Kenneth J. Noonan, MD</i>
Vertical Talus	
	Moderator: <i>Kenneth J. Noonan, MD</i> eModerator: <i>Derek Kelly, MD</i>
8:30 AM	Casting: How Much Correction Can We Get? <i>Lori A. Karol, MD</i>
8:36 AM	Dobbs Method for CVT: Pearls and Pitfalls <i>Kenneth J. Noonan, MD</i>

8:42 AM	Master Technique: Surgical Correction for Neglected CVT <i>Vincent S. Mosca, MD</i>
8:47 AM	Discussion Panelists: <i>Lori A. Karol, MD</i> <i>Kenneth J. Noonan, MD</i> <i>Vincent S. Mosca, MD</i>
Common Clinical Conundrums	
8:55 AM	The Symptomatic Flatfoot in the Teenager: What to Do? <i>Matthew Varghese, MS</i>
9:01 AM	Calcaneonavicular Coalition <i>Amy L. McIntosh, MD</i>
9:07 AM	Talocalcaneal Coalition <i>Reid Nichols, MD</i>
9:13 AM	Os Trigonum: When and How to Treat? <i>Javier Masquijo, MD</i>
9:18 AM	Discussion Panelists: <i>Matthew Varghese, MS</i> <i>Amy L. McIntosh, MD</i> <i>Reid Nichols, MD</i> <i>Javier Masquijo, MD</i>
Cases and Complications	
	Moderator: <i>Vincent S. Mosca, MD</i> eModerator: <i>Derek Kelly, MD</i>
9:25 AM	Discussion <i>Kenneth J. Noonan, MD</i> Panelists: <i>Alain Dimeglio, MD</i> <i>Matthew Varghese, MS</i> <i>Vincent S. Mosca, MD</i> <i>Lori A. Karol, MD</i>

9:40 AM Break & Exhibits

10:00 AM–11:30 AM **CME BREAKOUT SESSIONS**
(Advance Sign-up Encouraged for Hands-on Workshops)

Six Axis Deformity Correction with Circular Fixator IV: Treatment of Ankle Equinus Contracture



(hands-on workshop)

This hands-on workshop will guide you through six-axis deformity correction using circular external fixators. While each breakout session may be attended as a stand alone experience, registrants are encouraged to attend all four sessions to maximize their knowledge and skills. Join our international experts for this unique lab experience, complete with bone models, hexapod external fixators, and computer software programs to generate prescription for deformity correction.

Chair: *Christof Radler, MD*

Faculty: *John E. Herzenberg, MD*

Deborah Eastwood, FRCS

Saturday, December 1, continued

**10:00 AM–11:30 AM CME BREAKOUT SESSIONS
continued**

Principles and Techniques in Pediatric Sports



Join us for this live simulcast international webinar on care of the pediatric and adolescent athlete! Topics covered will include treatment of shoulder instability, ACL tears in the skeletally immature, and osteochondritis dissecans of the knee.

Moderator: *Mininder S. Kocher, MD, MPH*

- 10:00 AM Introduction
Mininder S. Kocher, MD, MPH
- 10:05 AM Shoulder Instability:
Should We Do Primary Repair?
Michael T. Busch, MD
- 10:14 AM Technique: Latarjet Reconstruction
Donald S. Bae, MD
- 10:23 AM ACL in the Skeletally Immature Patient
Javier Masquijo, MD
- 10:32 AM Technique: Physeal Sparing ACL
Reconstruction
Mininder S. Kocher, MD, MPH
- 10:40 AM Discussion
Panelists: *Mininder S. Kocher, MD, MPH*
Michael T. Busch, MD
Donald S. Bae, MD
Javier Masquijo, MD

Moderator: *Kevin G. Shea, MD*

- 10:50 AM PF Instability: Evaluation
Michael T. Busch, MD
- 10:59 AM Technique: MPFL Reconstruction
James Hoi Po Hui, FRCSE
- 11:08 AM Knee OCD: Contemporary Perspectives
Kevin G. Shea, MD
- 11:17 AM Technique of Drilling +/- Fixation of
Knee OCD
Theodore J. Ganley, MD
- 11:25 AM Discussion
Panelists: *Michael T. Busch, MD*
James Hoi Po Hui, FRCSE
Theodore J. Ganley, MD

Patient and Provider Wellness



Improving and sustaining the health of our care delivery teams is critically important. Join us for this breakout session focusing on wellness. Learn about burnout, team dynamics, strategies to improve provider health, as well as the new POSNA wellness initiative.

Moderator: *Vishwas R. Talwalker, MD*

- 10:00 AM Introduction
Vishwas R. Talwalker, MD
- 10:03 AM The Problem
Henry Chambers, MD

- 10:09 AM Who Me?
Jennifer M. Weiss, MD
- 10:15 AM Patient Wellness
Reid Nichols, MD
- 10:21 AM What About the team?
Anne Studemann
- 10:26 AM Discussion

Moderator: *Jennifer M. Weiss, MD*

- 10:35 AM Tools for My Toolbox
Jennifer M. Weiss, MD
- 10:43 AM Wellness in International Work
Richard M. Schwend, MD
- 10:49 AM POSNA WTF
Vishwas R. Talwalker, MD
- 10:55 AM QSVI
Daniel J. Sucato, MD, MS
- 11:00 AM Discussion
- 11:10 AM Change Behavior
Donald S. Bae, MD
- 11:20 AM Write Yourself Well

Gait II: Case-based Decision-Making in Gait, Analysis, from Beginner to Advanced



Second of two breakout sessions on gait analysis. Join our panel of international experts as they discuss case-based evaluation and treatment of crouched gait, jump type gait, and "miserable malalignment."

Moderator: *Tom F. Novacheck, MD*

- 10:00 AM Introduction
Tom F. Novacheck, MD
- 10:03 AM Case 1: Jump Type Gait
Tom F. Novacheck, MD
- 10:14 AM Discussion
Panelists: *James J. McCarthy, MD*
Robert Michael Kay, MD
Benjamin J. Shore, MD MPH
- 10:24 AM Case 2: Miserable Malalignment
Tom F. Novacheck, MD
- 10:35 AM Discussion
Panelists: *James J. McCarthy, MD*
Robert Michael Kay, MD
Benjamin J. Shore, MD MPH
- 10:45 AM Case 3: Crouch Gait
Tom F. Novacheck, MD
- 10:56 AM Discussion
Panelists: *James J. McCarthy, MD*
Robert Michael Kay, MD
Benjamin J. Shore, MD MPH
- 11:06 AM Case 4: HWG IV
Tom F. Novacheck, MD

Saturday, December 1, continued

10:00 AM–11:30 AM	CME BREAKOUT SESSIONS continued
11:17 AM	Discussion <i>Panelists: James J. McCarthy, MD Robert Michael Kay, MD Benjamin J. Shore, MD MPH</i>
11:25 AM	Wrap-up



Review Course 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.

The American Academy of Orthopaedic Surgeons designates the One Day Fundamentals in Pediatric Orthopaedics MOC Review Course for a maximum of **5.5 AMA PRA Category 1 Credits™**, for those attending only the live Saturday MOC Review Course. Physicians should claim only the credit commensurate with the extent of their participation in this live activity.

8:00 AM–2:30 PM

Saturday, One-Day Fundamentals in in Pediatric Orthopaedics Review Course

For pediatric orthopaedic learners of all levels, our IPOS faculty will provide high-yield presentations on pediatric orthopaedic knowledge needed for in-training and board examinations, as well as maintenance-of-certification (MOC) test requirements! Just the facts, and just what you need to know! *Included with Full IPOS Registration.*

Moderator: *Jeffrey Sawyer, MD*

8:00 AM	Introduction <i>Jeffrey Sawyer, MD</i>
8:10 AM	How to Review and Take the MOC <i>Henry Chambers, MD</i>
8:20 AM	Sports <i>Jennifer M. Weiss, MD</i>
8:45 AM	Hip (Nontrauma) <i>Wuddhav N Sankar, MD</i>
9:10 AM	Neuromuscular <i>Henry Chambers, MD</i>
9:35 AM	Tumor <i>Alexandre Arkader, MD</i>
9:50 AM	BREAK
10:15 AM	Genetics/Endocrine <i>Michelle S. Caird, MD</i>
10:40 AM	Upper Extremity Fractures <i>Susan A. Scherl, MD</i>
11:05 AM	Spine <i>Todd Milbrandt, MD</i>
11:30 AM	LUNCH

Moderator: *Henry Chambers, MD*

12:10 PM	Lower Extremity Fracture <i>Jeffrey Sawyer, MD</i>
12:40 PM	Upper Extremity Congenital <i>Christine Ho, MD</i>
1:00 PM	Foot <i>Derek Kelly, MD</i>
1:20 PM	Lower Extremity Deformity <i>Amy L. McIntosh, MD</i>
1:45 PM	Infection <i>Martin Herman, MD</i>
2:05 PM	High Yield Images <i>Jeffrey Sawyer, MD</i>
2:25 PM	Wrap up

Register Online Today at
ipos.posna.org

For More Information

For more information please visit these sites:
<https://www.visitorlando.com/>
<https://www.citywalkhollywood.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. Or discover a modern, big-city nightlife scene in downtown Orlando that includes dozens of dance clubs, bars, restaurants, and live music venues.



Unforgettable Attendee Experiences

With over 100+ attractions across the city and seven of the world's top theme parks, Orlando is unlike any other destination full of unforgettable experiences waiting for you to explore. After walking the tradeshow floor, escape to a world of imagination and fantasy that will leave you feeling refreshed and inspired. Whether seeking to reconnect with childhood nostalgia or experience leading-edge innovations in ride technology to testing your sense of adventure with endless outdoor activities, Orlando attractions truly are one-of-a-kind.



Distinctive Shopping

When it comes to distinctive shopping, Orlando has something for all budgets. While the destination can certainly bring out the glitz, it also knows a great deal when we see one. Our mix of sophisticated malls like The Mall at Millenia, quaint boutiques on Park Avenue in Winter Park, and value-driven outlet centers serve up internationally known brands and unique local finds. And the close proximity to the convention center district - within a 15-mile radius - makes for a stress-free shopping spree.

Golf Legends

With more than 170 golf courses, over 20 golf academies and some of the world's most prestigious tournaments, Orlando is a true golfer's paradise. Take it from the professionals: In addition to being home to more pro golfers than any other city in the world, Orlando was voted the "North American Golf Destination of the Year" by the International Association of Golf Tour Operators. And with a multitude of stunning courses designed by the likes of Nicklaus, Dye, and Fazio, Orlando offers attendees an exclusive golfing experience not found anywhere else.



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