

## PRELIMINARY PROGRAM

# POSNA

## 2014 POSNA ANNUAL MEETING

APRIL 30 – MAY 3, 2014

LOEWS HOLLYWOOD HOTEL  
HOLLYWOOD, CA



### **Pre-Course**

**Quality, Safety, Value:  
From Theory to Practice Management**

April 30, 2014

Loews Hollywood Hotel

Program Chair: Mininder S. Kocher, MD

### **Annual Meeting**

April 30 – May 3, 2014

Loews Hollywood Hotel

Program Chair: Todd A. Milbrandt, MD

Local Host: David L. Skaggs, MD

### **Subspecialty Day**

May 2, 2014

Program Chair: Ernest L. Sink, MD



The Pediatric Orthopaedic Society  
of North America

# 2013 POSNA CORPORATE PARTNERS

POSNA is pleased to acknowledge the companies who have provided financial support throughout the past year. We sincerely appreciate each of these companies for helping POSNA fulfill its goals of providing education and fostering research.

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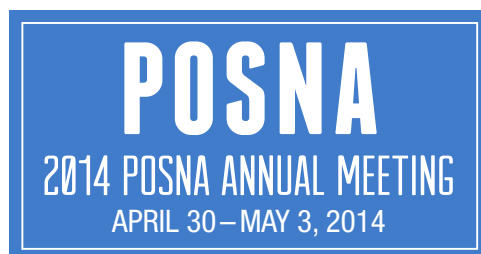
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THANK YOU



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## Dates to Remember

|                                        |                |
|----------------------------------------|----------------|
| Early Registration Deadline . . . . .  | March 5, 2014  |
| Registration Closes . . . . .          | March 31, 2014 |
| Housing Reservation Deadline . . . . . | April 7, 2014  |

## Future Annual Meetings

April 29– May 2, 2015  
Atlanta, Georgia

April 27– 30, 2016  
Indianapolis, Indiana

2017–Date: TBD  
Barcelona, Spain

May 9–12, 2018  
Austin, Texas



The Pediatric Orthopaedic Society  
of North America

REGISTER ONLINE TODAY AT [WWW.POSNA.ORG](http://WWW.POSNA.ORG).

# YOU'RE INVITED...

January 2014

Dear Colleagues,

On behalf of POSNA President John (Jack) Flynn, MD and the 2014 Program Committee (Todd Milbrandt, MD; Ernie Sink, MD; Susan Scherl, MD; R. Tracy Ballock, MD) it is my great pleasure to invite you to attend the 2014 Annual Meeting of the Pediatric Orthopaedic Society of North America to be held in Hollywood, California, April 30–May 3, 2014. Once again we have experienced a record number of submitted abstracts to the Annual Meeting. Several new features have been added to the program this year to accomplish the goal of increasing the number of podium presentations:

- The pre-meeting will begin Wednesday morning with a Pre-Course on “Quality, Safety, Value: From Theory to Practice Management,” led by Mininder S. Kocher, MD.
- The first scientific session will begin on Wednesday afternoon and will be followed by the Opening Ceremony Wednesday evening, during which the Kuo, Huene, St. Giles and Humanitarian Awards will be presented.
- Friday afternoon will be devoted to five concurrent subspecialty sessions covering advanced topics in Spine, Hip, Sports, Upper Extremity and Neuromuscular care.

This year's local host, David Skaggs, MD (Valerie Ulene) has also organized an exceptional social and activities program that will showcase many cultural and recreational opportunities offered by the great cosmopolitan city of Los Angeles.

The POSNA Annual Meeting has become the premier venue for pediatric orthopaedic research and education around the world, presented in a uniquely collegial and social atmosphere. We sincerely hope you will plan to join us for what promises to be an exciting event.

I look forward to seeing you in Hollywood.

Sincerely,



Todd A. Milbrandt, MS, MD  
2014 POSNA Program Chair

# GENERAL MEETING INFORMATION

## LEARNING OBJECTIVES

Upon completion of this program, participants should be able to:

- Objective 1: Discuss 3 new developments in pediatric orthopaedic surgery.
- Objective 2: Implement 2 new techniques in the participants' practice of pediatric orthopaedic surgery.
- Objective 3: Describe the impact of advances in basic molecular and biomechanical sciences and discuss their likely impact upon the practice of pediatric orthopaedic surgery.
- Objective 4: Demonstrate an understanding of current megatrends in medical practice, such as the move from volume to value, and gain insights into improving the quality, safety and value of care delivered in their practice.

## ACCREDITATION

This Annual Meeting of the Pediatric Orthopaedic Society of North America has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the American Academy of Orthopaedic Surgeons and POSNA.

The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

## CONTINUING MEDICAL EDUCATION

The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of **20.5 AMA PRA Category 1 Credits™**. Physicians should claim credit commensurate with the extent of their participation in the activity.

## FDA STATEMENT (UNITED STATES)

Some drugs or medical devices demonstrated at this Annual 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.

- ◆ Indicates those faculty presentations in which the FDA has not cleared the drug and/or medical device for the use described (i.e., the drug or medical device is being discussed for an "off label" use).

## DISCLAIMER

The material presented at the Annual 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 Annual 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.

## DISCLOSURE

Presenting authors are printed in **boldface**.

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.

## LANGUAGE

English will be the official language of the POSNA Pre-Course and Annual Meeting.

## 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 reproductions 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.

## INTERNATIONAL CALLING / DATA

Please make sure to contact your wireless provider before the meeting to avoid incurring roaming charges.

# WELCOME

Celebrating our 30th anniversary, POSNA is pleased to host the 2014 Annual Meeting in sunny California. The meeting will take place April 30–May 3, 2014 at the Loews Hollywood Hotel, located in the very center of Hollywood on Sunset Boulevard.

The meeting will start off Wednesday with the Pre-Course titled, “Quality, Safety, Value: From Theory to Practice Management” and the opening ceremony in the evening. The Program Committee has selected an impressive scientific program consisting of paper presentations, e-posters, paper posters, and a symposia program. The clinical award papers section has been allowed a longer time for discussion on the best studies, and Friday afternoon will feature our Subspecialty Day sessions including hand, sports, spine, neuromuscular/lower extremity, and hip sections. On Friday evening the closing ceremony will be a glamorous Hollywood-themed party filled with food, bars, music and a photo booth.

We encourage you to take Thursday afternoon to enjoy the greater Los Angeles area with your colleagues, family, and friends. Just outside the hotel you can see the brass stars with celebrity names embedded in the sidewalk and actors dressed up as superheroes walking down Hollywood Boulevard. Connected to the hotel are many shops and restaurants, and the famous Chinese Theatre can be viewed directly across the street, where celebrities go to attend their movie premieres. Hike to Runyon Canyon, visit Universal Studios or Beverly Hills, or enjoy the beaches of California.

Our 30th anniversary will surely be a wonderful educational experience – we wish you a very successful and enjoyable meeting.

# HOTEL INFORMATION

## LOEWS HOLLYWOOD HOTEL

The 2014 POSNA Annual Meeting will be hosted at the Loews Hollywood Hotel. The star of Hollywood & Highland Center, Loews Hollywood Hotel features posh amenities and unparalleled service. From the commanding location with stunning views to expansive guestrooms and cosmopolitan cuisine, business and leisure travelers alike will find everything they need for an entertaining stay in Hollywood.

## HOUSING INFORMATION

### Loews Hollywood Hotel

Attention: Loews Hollywood POSNA Reservations  
424 Church Street, Suite 300  
Nashville, TN 37219  
Tel: (323) 856-1200  
Fax: (615) 340-2001  
Reservations: (855) 563-9749,  
International callers: (615) 340-2000  
Online Reservations: <https://resweb.passkey.com/go/POSNA2014>  
See Loews Room Reservation Form on page 37

### Hollywood Roosevelt Hotel

7000 Hollywood Boulevard, Los Angeles, CA 90028  
Tel: (323) 466-7000  
Fax: (323) 462-8056  
Reservations: (800) 950-7667  
Distance: 0.2 miles from the Loews  
See Hollywood Roosevelt Hotel Reservation Form on page 39

### Hilton Garden Inn

2005 N. Highland Avenue, Los Angeles, CA 90068  
Tel: (323) 876-8600  
Fax: (323) 876-3272  
Online Reservations: <http://bit.ly/1ea91ul>  
Distance: 0.3 miles from the Loews  
See Hilton Garden Inn Reservation Form on page 41.

## AIRLINE RESERVATIONS

Burbank Airport is 7 miles from the Loews while LAX is 13 miles.

### POSNA ANNUAL MEETING TRAVEL CODES

United Airlines: You may book online at [www.united.com](http://www.united.com) and enter your Offer Code ZR67722443 in the Offer Code box when searching for your flights. Discount varies based on your booking class.

American Airlines: Visit [www.aa.com/group](http://www.aa.com/group) and use 3944AZ in the promotion code box to review a 5% discount. Note: This travel code is not applicable for those flying into Burbank as American Airlines does not service Burbank.

## TRANSPORTATION

Taxi Fares from LAX to the Loews Hollywood Hotel will run \$70 to \$80. Taxi Fares from the Burbank Airport to the Loews Hollywood Hotel will run \$40 to \$50.

Super Shuttle – (323) 775-6600, [www.supershuttle.net](http://www.supershuttle.net).

Online: One way from LAX is \$27 per person and \$21 per person from Burbank Airport. By telephone, there is a \$2 service charge added.

Self-parking in the Hollywood & Highland complex is \$13 per day. Valet Parking at the hotel is \$15 for up to 4 hours and \$20 for up to 10 hours. Over 10 hours or overnight parking is \$38 per car.



# MEETING REGISTRATION

Full meeting registration includes sessions Wednesday afternoon, April 30 through Saturday morning, May 3rd, course material, opening ceremony and reception, closing reception, coffee breaks and 3 continental breakfasts.

**Friday Subspecialty Day, May 2, 2014:** We will have a special One-Day ONLY registration rate for those who wish to attend the meeting only on Friday. This registration rate will include all sessions on Friday and the Closing Reception.

**Please Note:** Registration and attendance at only the Subspecialty Day does not meet the member meeting attendance requirement as stated in the Bylaws.

Early registration is advised as events are frequently oversubscribed. Complete the registration form and forward with the appropriate registration amount. Allow up to 15 days for processing your registration. You may also register on-line at [www.POSNA.org](http://www.POSNA.org).

**Please Note:** The Pre-Course requires a separate registration and fee. Attendance at this meeting only, does not meet the member meeting attendance requirement.

A \$50 late fee will be charged for meeting registration received after March 5, 2014. Registration closes on March 31, 2014. Any registration received after that date may not be recorded and you may be asked to pay on site. There will be an additional \$50 fee for those registering on site.

## ACCOMPANYING PERSONS MUST BE REGISTERED IN ORDER TO ATTEND ANY FUNCTION, INCLUDING OPTIONAL EVENTS.

All checks must be in US dollars drawn on a US Bank. If paying by check, please mail your registration to:

**POSNA**  
**6665 Eagle Way**  
**Chicago, IL 60678-1066**  
**Register on-line at [www.POSNA.org](http://www.POSNA.org).**

## Dates to Remember

|                                                |                |
|------------------------------------------------|----------------|
| Early Registration Deadline                    | March 5, 2014  |
| Pre-Registration Closes                        | March 31, 2014 |
| After March 31, 2014, please register on-site. |                |

## Early Registration Fees (US Dollars)

|                                                                                  |       |
|----------------------------------------------------------------------------------|-------|
| POSNA Member:                                                                    | \$675 |
| Non-Member:                                                                      | \$925 |
| Resident/Fellow:                                                                 | \$450 |
| RN/PA/Allied Health:                                                             | \$450 |
| Delegates from Reduced Rate Countries:<br>(Click here to view list of countries) |       |
| Low Income:                                                                      | \$375 |
| Low-Middle Income:                                                               | \$450 |

## Pre-Course Registration:

|                      |       |
|----------------------|-------|
| Member:              | \$150 |
| Non-Member:          | \$200 |
| Nurse/Allied Health: | \$100 |
| Resident**:          | \$100 |
| Fellow**:            | \$100 |
| Faculty:             | N/C   |

## Friday, Subspecialty Day Registration:

|                                 |       |
|---------------------------------|-------|
| Friday ONLY – Member*:          | \$250 |
| Friday ONLY – Non-Member*:      | \$300 |
| Friday ONLY – Allied Health*:   | \$200 |
| Friday ONLY – Resident/Fellow*: | \$200 |

|                            |       |
|----------------------------|-------|
| Accompanying Person:       | \$325 |
| Senior Members:            | \$375 |
| Children 6–12, per child:  | \$10  |
| Children 13–17, per child: | \$100 |

|                                                  |                      |
|--------------------------------------------------|----------------------|
| <b>After March 5, 2014:</b>                      | <b>Late Fee \$50</b> |
| Pre-registration closes on <b>March 31, 2014</b> |                      |
| On-Site registration:                            | additional fee \$50  |

\*Friday Subspecialty Day is a registration for just one day, and includes breakfast, the morning scientific paper sessions, afternoon symposia, and the Closing Reception in the evening.

\*\*Residents/Fellows must have the signature of their Chief of Service on their registration form to qualify for the reduced fee. Without a signature, you will be charged the non-member fee.

## MEMBERS BUSINESS MEETINGS

All POSNA members are invited to attend the Members Business Meetings each morning, Thursday through Saturday, May 1–3, from 6:30 AM to 7:45 AM. Committee Chairs will share reports of their recent activities. A breakfast buffet will be available for all members each day.

## NON-MEMBER BREAKFAST

A breakfast buffet will be available for all non-member attendees each morning, Thursday, May 1 through Saturday, May 3, 6:30 AM–7:45 AM.

## ACCOMPANYING PERSONS BREAKFAST

A breakfast buffet for accompanying persons will be available each morning, Thursday, May 1 through Saturday, May 3, 8:00 AM–9:00 AM and is open for all spouses, children and accompanying persons **who are registered and have a badge**. Enjoy coffee and breakfast before heading out for the day.



## 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 Pre-Course or Annual Meeting, including those participating in tours and 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 Annual 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.

## DISCLOSURE OF PERSONAL INFORMATION

When registering for the POSNA Annual Meeting, your personal identifying information is retained by POSNA. You understand and agree that POSNA may disclose your name, address and contact information to your hotel in order to confirm hotel room reservations and meeting attendance numbers. Also, name and addresses are given out to our corporate sponsors for a one-time product mailing. No financial or other personally identifying information is disclosed.

## CANCELLATION POLICY

A full refund will be granted if notification is received, in writing, at POSNA, 6300 N. River Road, Suite 727, Rosemont, IL 60018-4226, USA, through March 5, 2014. A 20% administrative fee will be charged after March 5, 2014. No refunds will be given after April 28, 2014.

## 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.

## MISSION STATEMENT

To assure the best possible care of children with musculoskeletal disorders by implementing the highest quality education of pediatric orthopaedists, by supporting evidence-based research, and by developing appropriate alliances with related organizations.



# 2013 AWARD RECIPIENTS

## POSNA HUMANITARIAN AWARD

**David A. Spiegel, MD**

In recognition of his outstanding service to the underserved children of the world with musculoskeletal disorders.

## DISTINGUISHED ACHIEVEMENT AWARD

**James R. Kasser, MD**

For his outstanding service to the organization, especially as President 2001–2002. For his contributions to pediatric orthopaedic patient care and clinical research. For his commitment to the education of orthopaedic surgery residents and fellows. For his excellence in leadership in the pediatric and general orthopaedic community.

## OUTSTANDING CLINICAL SCIENTIFIC PAPER

“Long Term Effects of Glucocorticoid Treatment in Duchenne Muscular Dystrophy on Scoliosis”

**Benjamin A. Alman, MD; David Lebel, MD; W. Douglas Biggar, MD**

## OUTSTANDING BASIC SCIENCE PAPER

“3D Visualization of the Vertebral Growth Plate: The Effects of Growth Modulation”

**Peter O. Newton, MD; Joshua Doan, MEng, OBRC; Diana Andreeva Glaser, PhD, OBRC; Christine L. Farnsworth, MS**

## OUTSTANDING POSTER

“Cast Saw Injuries: Assessing Blade to Skin Contact During Cast Removal”

**Matthew A. Halanski, MD; Kirstin Monroe, DNP, RN; Sarah A. Sund, BS, MT, CCRC; Blaise A. Nemeth, MD; Kenneth J. Noonan, MD**

## OUTSTANDING E-POSTER

“Previously Described Radiographic Parameters of Femoroacetabular Impingement are Common in Asymptomatic Patients”

**Matthew R. Schmitz, MD; Bernd Bittersohl, MD; Daniela Zaps, MD; James D. Bomar, MPH; Andrew T. Pennock, MD; Harish S. Hosalkar, MD**

## POSNA SPECIAL EFFORTS AND EXCELLENCE AWARD

**Richard M. Schwend, MD**

In recognition of his outstanding service to the Mission of POSNA, especially his leadership on the Children's Orthopaedics in Underserved Regions Committee and leadership in liaising with the American Academy of Pediatrics.

## PETER ARMSTRONG, MD—SHRINERS HOSPITALS FOR CHILDREN AWARD

**James G. Wright, MD, MPH, FRCSC**

“Antimicrobial Prophylaxis and Rates of Surgical Site Infection in Children”

**Ilyas S. Aleem, MD; Jeannette P. So, MSc; Anne G. Matlow, MSc, MD; James G. Wright, MD, MPH**

## ANGELA S.M. KUO MEMORIAL AWARD

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

“Twenty-year Functional and Radiographic Follow-up of Operative Legg-Calve-Perthes Disease”

## ARTHUR H. HUENE AWARD

**Unni G. Narayanan, MD**

“Evaluation of Outcomes of Hip Interventions for Children with Cerebral Palsy: An International Multi-centre Prospective Longitudinal Comparative Cohort Study”

## BIOMET RESEARCH GRANT

**Nicholas M. Bernthal, MD**

“A Mouse Model of Spinal Implant Infection: A Novel Method to Evaluate Metal Susceptibility to Infection and Anti-Microbial Coatings”

## CLINICAL TRIALS PLANNING GRANT

**Joshua E. Hyman, MD**

“Assessment of Quality of Life in Patients with Legg-Calve-Perthes Disease”

## DEPUY SPINE RESEARCH GRANT

**W. Timothy Ward, MD**

“Long-term Follow-up of Untreated Adolescent Idiopathic Scoliosis Patients with Curves above Forty Degrees”

## GLOBUS MEDICAL RESEARCH GRANT

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

“Development of a Risk Severity Score for Pediatric Spine Surgical Site Infection”

## POSNA RESEARCH GRANT

**Jonathan J. Rios, PhD**

“Genome-wide Approach to Genetic Causes of Congenital Pseudoarthrosis of the Tibia (CPT)”

## POSNA/OREF GRANT

**Katherine R. Saul, PhD**

“Identifying Muscular Contributions to Bone Deformity of the Shoulder Following Brachial Plexus Birth Palsy”

**Mininder S. Kocher, MD**

“Development and Validation of a Pediatric Activity Scale”

## ST. GILES YOUNG INVESTIGATOR AWARD

**Benjamin J. Shore, MD, MPH, FRCSC**

“Validity and Reliability of the Pediatric Evaluation Disability Inventory—Computer Adaptive Test (PEDI-CAT) in Children with Cerebral Palsy”

## POSNA START UP GRANT

**Matthew D. Milewski, MD**

“Motion Analysis Assessment of Return to Play Functional Criteria After ACL Reconstruction in Adolescent Athletes”

**Christine Ho, MD**

“Duplex Ultrasonography, Audible Doppler Examination, and Clinical Examination in Evaluating Vascular Patency in Pediatric Patients with a Type III Supracondylar Humerus Fracture”

**Joseph Janicki, MD**

“Vitamin D & Fracture Risk in the Pediatric Population”

# PROGRAM AT A GLANCE

## Tuesday, April 29

|                            |                   |                        |
|----------------------------|-------------------|------------------------|
| Board of Directors Meeting | 7:00 AM – 3:00 PM | Hollywood AB           |
| Registration               | 4:00 PM – 6:00 PM | Mezzanine Registration |

## Wednesday, April 30

|                                    |                           |                        |
|------------------------------------|---------------------------|------------------------|
| Registration                       | 6:30 AM – 5:15 PM         | Mezzanine Registration |
| Fellowship Directors Meeting       | 6:30 AM – 7:30 AM         | Los Feliz              |
| Pre-Course Breakfast               | 6:30 AM – 8:00 AM         | Hollywood Ballroom     |
| <b>Pre-Course</b>                  | <b>8:00 AM – 12:30 PM</b> | Ray Dolby Ballroom     |
| General Session                    | 1:30 PM – 5:15 PM         | Ray Dolby Ballroom     |
| <b>Opening Ceremony</b>            | <b>6:30 PM – 7:45 PM</b>  | Ray Dolby Ballroom     |
| Steel Lecturer                     |                           |                        |
| Angela S.M. Kuo Award              |                           |                        |
| St. Giles Young Investigator Award |                           |                        |
| Arthur H. Huene Memorial Award     |                           |                        |
| Humanitarian Award                 |                           |                        |
| Special Efforts/ Excellence Award  |                           |                        |
| Welcome Reception                  | 7:45 PM – 9:30 PM         | Pool                   |

## Thursday, May 1

|                                    |                     |                        |
|------------------------------------|---------------------|------------------------|
| Registration                       | 6:30 AM – 1:30 PM   | Mezzanine Registration |
| Member Breakfast/ Business Meeting | 6:30 AM – 7:45 AM   | Hollywood Ballroom     |
| Non-Member Breakfast               | 6:30 AM – 7:45 AM   | Doheny thru Laurel     |
| Accompanying Persons Breakfast     | 8:00 AM – 9:00 AM   | Pool                   |
| General Session                    | 8:00 AM – 12:35 PM  | Ray Dolby Ballroom     |
| Distinguished Achievement Award    | 10:04 AM – 10:19 AM | Ray Dolby Ballroom     |
| Concurrent Session                 | 10:35 AM – 12:35 PM | Hollywood Ballroom     |
| <b>Afternoon Symposia Program</b>  |                     |                        |
| NP/PA Symposium                    | 1:00 PM – 2:30 PM   | Ray Dolby Ballroom     |
| COUR Symposium                     | 1:00 PM – 3:30 PM   | Hollywood Ballroom     |
| Young Members Forum                | 5:00 PM – 7:00 PM   | Hollywood Ballroom     |

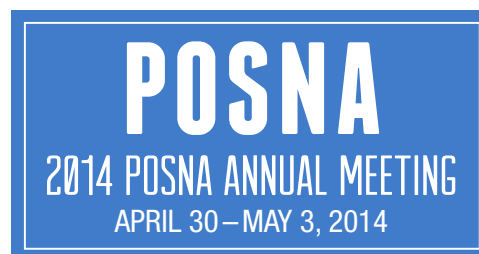
*Program Subject to Change*

## Friday, May 2

|                                    |                           |                        |
|------------------------------------|---------------------------|------------------------|
| Registration                       | 6:30 AM – 5:15 PM         | Mezzanine Registration |
| Member Breakfast/ Business Meeting | 6:30 AM – 7:45 AM         | Hollywood Ballroom     |
| Non-Member Breakfast               | 6:30 AM – 7:45 AM         | Doheny thru Laurel     |
| Accompanying Persons Breakfast     | 8:00 AM – 9:00 AM         | Pool                   |
| <b>General Session</b>             | <b>8:00 AM – 12:00 PM</b> | Ray Dolby Ballroom     |
| Presidential Speaker               | 10:53 AM – 11:13 AM       |                        |
| POSNA 2015 Annual Meeting          | 11:14 AM – 11:29 AM       |                        |
| Presidential Transfer              |                           |                        |
| <b>Subspecialty Day</b>            | <b>1:00 PM – 5:15 PM</b>  |                        |
| Hip                                |                           | Hollywood CDE          |
| Spine                              |                           | Ray Dolby Ballroom     |
| Sports                             |                           | Hollywood AB           |
| Upper Extremity/ Hand              |                           | Mt Olympus             |
| Neuromuscular/ Lower Extremity     |                           | Runyon Laurel          |
| Closing Reception                  | 7:00 PM – 11:00 PM        | The Annex              |

## Saturday, May 3

|                                    |                    |                        |
|------------------------------------|--------------------|------------------------|
| Registration                       | 6:30 AM – 12:00 PM | Mezzanine Registration |
| Member Breakfast/ Business Meeting | 6:30 AM – 7:45 AM  | Hollywood Ballroom     |
| Non-Member Breakfast               | 6:30 AM – 7:45 AM  | Doheny thru Laurel     |
| Accompanying Persons Breakfast     | 8:00 AM – 9:00 AM  | Pool                   |
| Board of Directors Meeting         | 7:30 AM – 9:00 AM  | Hancock Park           |
| General Session                    | 8:00 AM – 12:35 PM | Ray Dolby Ballroom     |



# 2014 POSNA PRE-COURSE

**Wednesday, April 30**

## QUALITY, SAFETY, VALUE: FROM THEORY TO PRACTICE MANAGEMENT

Quality, Safety, and Value are the buzzwords of modern medicine and healthcare reform. Major efforts are underway in these arenas from a variety of stakeholders including physicians, physician practices, hospitals, insurers, and government organizations including CMS, HHS, and PCORI. In addition, the Affordable Care Act contains provisions and regulations regarding safety and quality. POSNA and AAOS are actively involved with several quality, safety, and value initiatives. Because this is a hot topic involving many parties and is changing rapidly, orthopaedic surgeons may lack knowledge of what is value, how quality is being measured, performance measures, value-based healthcare, accountable care organizations, bundled payments, AAOS initiatives, ABOS initiatives, governmental programs, and specific contemporaneous programs. This program addresses these gaps by discussing healthcare reform and value-based medicine and also by providing deliverables of current initiatives that members can incorporate into their practices.

This program will address both the broader theory and context of healthcare reform as it relates to value, safety, and quality via value-based healthcare in addition to providing specific deliverables about programs that are underway and can be incorporated into members' practices. The faculty includes POSNA members who are actively engaged in these areas and outside experts who are leaders in this field such as **Dr. Gawande**, **Dr. Bozic**, and **Dr. Jevsevar**. The program includes talks, roundtables, and room for discussion for dynamic learning. The hospital perspective and the system perspective are provided. New payment schemes such as accountable care organizations, pay for performance, and bundled payments are discussed. AAOS, POSNA, and ABOS initiatives are overviewed. Specific "deliverable" initiatives among POSNA members are also overviewed.

### Objectives

Upon completion of this program, participants should be able to:

1. Describe the concept of Value-Based Medicine and the contemporaneous forces in healthcare reform that are driving an emphasis on Safety, Value, and Quality.
2. Recognize the Quality, Safety, and Value initiatives being undertaken by POSNA, AAOS, and ABOS.
3. Prepare their practice for healthcare reform by understanding the hospital perspective, the healthcare system perspective, and new payment schemes such as accountable care organizations, pay for performance, and bundled payment.
4. Take home "deliverables" to their practice for Quality, Safety, and Value initiatives promulgated by POSNA members.

## Accreditation

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship 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.

## Continuing Medical Education

The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of **4.25 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Pre-Course Registration Deadline:**

**March 31, 2014**—Registration Form on page 15.



**POSNA**

The Pediatric Orthopaedic Society  
of North America

|                           |                                                                                                                                                                          |                            |                                                                                               |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------|
| 8:00 AM – 8:05 AM         | <b>Opening Welcome</b><br><b>POSNA President:</b><br><i>John (Jack) M. Flynn, MD,<br/>Philadelphia, PA</i><br><b>Chair:</b> <i>Mininder S. Kocher MD,<br/>Boston, MA</i> | 10:10 AM – 10:15 AM        | <b>From CPG to ROCK</b><br><i>Kevin G. Shea, MD, Boise, ID</i>                                |
| <b>8:05 AM – 8:50 AM</b>  | <b>SESSION I – Value-based Healthcare</b><br><b>Moderator:</b> <i>Michael G. Vitale, MD<br/>New York, NY</i>                                                             | 10:15 AM – 10:25 AM        | <b>ABOS Initiatives</b><br><i>Stephen A. Albanese, MD,<br/>East Syracuse, NY</i>              |
| 8:05 AM – 8:30 AM         | <b>KEYNOTE: Moving from Volume to Value: Why and How</b><br><i>Kevin J. Bozic, MD, San Francisco, CA</i>                                                                 | 10:25 AM – 10:40 AM        | DISCUSSION                                                                                    |
| 8:30 AM – 8:35 AM         | <b>POSNA Quality, Safety, Value Initiative</b><br><i>James McCarthy, MD, Cincinnati, OH</i>                                                                              | <b>10:40 AM – 12:15 PM</b> | <b>SESSION IV – Deliverables</b><br><i>Moderator: Mininder S. Kocher, MD,<br/>Boston, MA</i>  |
| 8:35 AM – 8:40 AM         | <b>Value of Pediatric Orthopaedic Surgery</b><br><i>Mininder S. Kocher, MD, Boston, MA</i>                                                                               | 10:40 AM – 10:45 AM        | <b>Simulation</b><br><i>Donald S. Bae, MD, Boston, MA</i>                                     |
| 8:40 AM – 8:50 AM         | DISCUSSION                                                                                                                                                               | 10:45 AM – 10:50 AM        | <b>Team STEPPS</b><br><i>Howard R. Epps, MD, Houston, TX</i>                                  |
| <b>8:50 AM – 9:30 AM</b>  | <b>SESSION II – Healthcare Delivery</b><br><b>Moderator:</b> <i>James H. Beaty, MD,<br/>Memphis, TN</i>                                                                  | 10:50 AM – 10:55 AM        | <b>Radiation Safety</b><br><i>Michelle S. Caird, MD, Ann Arbor, MI</i>                        |
| 8:50 AM – 9:00 AM         | <b>Preparing Your Practice for Healthcare Reform</b><br><i>Kevin J. Bozic, MD, San Francisco, CA</i>                                                                     | 10:55 AM – 11:10 AM        | DISCUSSION                                                                                    |
| 9:00 AM – 9:10 AM         | <b>Hospital Perspective: ACO's, Bundled Payments, and Metrics</b><br><i>James R. Kasser, MD, Boston, MA</i>                                                              | 11:10 AM – 11:15 AM        | <b>Supracondylar PIM</b><br><i>Gregory A. Mencio, MD, Nashville, TN</i>                       |
| 9:10 AM – 9:20 AM         | <b>Health System Perspective: Variation, Costs, and Physician Behavior</b><br><i>David Jevsevar, MD, Saint George, UT</i>                                                | 11:15 AM – 11:20 AM        | <b>Supracondylar Map</b><br><i>Michael J. Goldberg, MD, Seattle, WA</i>                       |
| 9:20 AM – 9:30 AM         | DISCUSSION                                                                                                                                                               | 11:20 AM – 11:25 AM        | <b>SCAMPS/TDABC</b><br><i>Peter M. Waters, MD, Boston, MA</i>                                 |
| 9:30 AM – 9:40 AM         | VIDEO SPOTLIGHT<br><b>An Interview with Atul Gawande</b>                                                                                                                 | 11:25 AM – 11:40 AM        | DISCUSSION                                                                                    |
| 9:40 AM – 9:55 AM         | BREAK                                                                                                                                                                    | 11:40 AM – 11:45 AM        | <b>NSQIP</b><br><i>Brian K. Brighton, MD, Charlotte, NC</i>                                   |
| <b>9:55 AM – 10:40 AM</b> | <b>SESSION III – AAOS and ABOS Initiatives</b><br><b>Moderator:</b> <i>Steven L. Frick, MD,<br/>Orlando, FL</i>                                                          | 11:45 AM – 11:50 AM        | <b>Trauma</b><br><i>William L. Hennrikus, MD, Hershey, PA</i>                                 |
| 9:55 AM – 10:00 AM        | <b>Historical Perspective</b><br><i>Michael J. Goldberg, MD, Seattle, WA</i>                                                                                             | 11:50 AM – 11:55 AM        | <b>Infection</b><br><i>Kevin G. Shea, MD, Boise, ID</i>                                       |
| 10:00 AM – 10:10 AM       | <b>AAOS Initiatives</b><br><i>James O. Sanders, MD, Rochester, NY</i>                                                                                                    | 11:55 AM – 12:00 PM        | <b>Spine</b><br><i>Michael G. Vitale, MD, New York, NY</i>                                    |
|                           |                                                                                                                                                                          | 12:00 PM – 12:15 PM        | DISCUSSION                                                                                    |
|                           |                                                                                                                                                                          | <b>12:15 PM – 12:30 PM</b> | <b>SESSION V – Future Directions</b><br><i>Moderator: Peter M. Waters, MD,<br/>Boston, MA</i> |
|                           |                                                                                                                                                                          | 12:15 PM – 12:20 PM        | <b>What Should We Measure?</b><br><i>Benjamin J. Shore, MD, MPH, FRCSC,<br/>Boston, MA</i>    |
|                           |                                                                                                                                                                          | 12:20 PM – 12:25 PM        | <b>How Should We Fund This?</b><br><i>Kit M. Song, MD, Los Angeles, CA</i>                    |
|                           |                                                                                                                                                                          | 12:25 PM – 12:30 PM        | <b>Wrap Up – Future Directions</b><br><i>Peter M. Waters, MD, Boston, MA</i>                  |



# 2014 POSNA PRE-COURSE

**APRIL 30, 2014**

**Loews Hollywood Hotel,  
Hollywood, California**

**REGISTRATION CLOSES**

**March 31, 2014**

Please register on-site after this date.

REGISTRATION – 2014 POSNA PRE-COURSE

## COURSE REGISTRATION INFORMATION

Name: (First and last): \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ - \_\_\_\_\_ Country: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

### TUITION, Check only one:

- |                                              |          |                                    |          |
|----------------------------------------------|----------|------------------------------------|----------|
| <input type="checkbox"/> Member              | \$150.00 | <input type="checkbox"/> Resident* | \$100.00 |
| <input type="checkbox"/> Non-Member          | \$200.00 | <input type="checkbox"/> Fellow*   | \$100.00 |
| <input type="checkbox"/> Nurse/Allied Health | \$100.00 | <input type="checkbox"/> Faculty   | N/C      |

NOTE: \*Residents/Fellows: You must have the signature of your Chief of Service below to qualify for the reduced fee.

If this form is not signed you will be charged the Non-Member fee. \_\_\_\_\_

My registration in the amount of \$\_\_\_\_\_ (U.S. Dollars only) is enclosed.

Method of payment must be enclosed or form will be returned. Only one method of payment is acceptable.

- ☐ Visa
- ☐ Mastercard
- ☐ American Express
- ☐ Check (made payable to POSNA)

Card Number \_\_\_\_\_ Expiration Date \_\_\_\_\_

Signature \_\_\_\_\_

- Mail this form to: POSNA, 6665 Eagle Way, Chicago, IL 60678-1066
- Registration received after March 31, 2014 will not be processed.
- Overnight Couriers will not be accepted.
- REGISTER ONLINE at [www.posna.org](http://www.posna.org)

For convenience and prompt confirmation, use this form to register now.

**Registration closes March 31, 2014**

Please register on-site after this date.

REFUND POLICY: Written notice of cancellation must be sent for refund. Full refund through March 5, 2014.  
20% administrative fee after March 5, 2014. No refund after April 28, 2014.

## SCIENTIFIC PROGRAM

## WEDNESDAY, APRIL 30

1:30 PM–1:39 PM INTRODUCTION AND OPENING REMARKS

## QSVI

**Moderator:** James O. Sanders, MD**President:** Kerwyn C. Jones, MD**e-Moderator:** James G. Wright, MD1:40 PM–1:44 PM  
1 **Impact of Clinical Practice Guidelines on the Treatment of Pediatric Femur Fractures****Matthew E. Oetgen, MD;**

Allison Michelle Blatz, BA;

Allison Matthews, MS

1:45 PM–1:49 PM  
2 **The Association of Pediatric Fractures with Serum Vitamin D Levels Compared To Non-fracture Community Controls****Barbara Minkowitz, MD;**

Barbara Cerame; Eileen Poletick, RN, DNP;

Sherri Luxenberg; Nicole Danielle Formoso;

Renee Eng; Jonathan Chevinsky;

Samantha Nicole Easton; Scott Musial;

Lior Fusman; Ben Lee, MD, MPH, MSc

1:50 PM–1:54 PM  
3 **Radiation Exposure during Fixation of Pediatric Supracondylar Humerus Fractures: Are Lead Shields Important?****Jeffrey E. Martus, MD;** Melissa A. Hilmes;

Christopher M. Stutz, MD;

Jonathan G. Schoenecker, MD;

Steven A. Lovejoy, MD;

Gregory A. Mencia, MD

1:55 PM–2:03 PM DISCUSSION

2:04 PM–2:08 PM  
4 **To Cast, To Saw, and Not To Injure: Can Safety Strips Decrease Cast Saw Injuries?****Matthew Aaron Halanski, MD;**

Natalie C. Stork, MD; Rachel L. Lenhart, MS;

Sarah A. Sund, BS; Blaise A. Nemeth, MD;

Kenneth J. Noonan, MD

2:09 PM–2:13 PM  
5 **Appropriateness and Adequacy of Splints Applied for Pediatric Fractures in an Emergency Department/Urgent Care Environment**

Brandon Schwartz, MPH;

**Joshua M. Abzug, MD**2:14 PM–2:18 PM  
6 **Prevention and Screening Programs for Anterior Cruciate Ligament Injuries in Young Athletes: A Cost-Effectiveness Analysis****Peter D. Fabricant, MD, MPH;**

Eric F. Swart, MD; Lauren H. Redler, MD;

Bert Mandelbaum, MD;

Christopher S. Ahmad, MD;

Claire Wang, MD, PhD

2:19 PM–2:27 PM DISCUSSION

2:28 PM–2:32 PM  
7**Creation of a Consensus-Based Checklist for the Response to Intra-operative Neuromonitoring Changes in Pediatric Spine Surgery****Michael G. Vitale, MD;** Gregory Ian Pace, BA;

Margaret Wright, BS; Hiroko Matsumoto, MA;

Behrooz A. Akbaria, MD;

John P. Dormans, MD;

John B. Emans, MD; Mark A. Erickson, MD;

John (Jack) M. Flynn, MD;

Steven D. Glassman, MD;

Michael P. Glotzbecker, MD;

Kamal N. Ibrahim, MD; Stephen J. Lewis, MD;

Scott J. Luhmann, MD;

James McCarthy, MD;

Peter O. Newton, MD; David W. Polly Jr, MD;

B. Stephens Richards, MD;

James O. Sanders, MD;

Suken A. Shah, MD; David L. Skaggs, MD;

John Taylor Smith, MD;

Paul D. Sponseller, MD;

Daniel J. Sucato, MD, MS;

Reinhard Zeller, MD, DSc, FRCSC;

David Price Royce Jr, MD;

Lawrence G. Lenke, MD

2:33 PM–2:37 PM  
8**Effectiveness of the “Spine at Risk” Safety Program****Walter F. Krengel III, MD;**

Courtney Michelle O'Donnell, MD;

Emma K. Satchell, BA;

Viviana Bompadre, PhD;

Nicole Burkette Ikebata, MPH;

Klane K. White, MD

2:38 PM–2:42 PM  
9**Comparison of Imaging Methods and Radiation Exposure for In Posterior Spinal Fusions for Scoliosis****Victoria Kuester;** John Ryan Quinn, BA;

Jacob Riis, MD; Hans Robert Tuten, MD;

Chester Howard Sharps, MD

2:43 PM–2:51 PM

2:52 PM–2:56 PM  
10**What is the Anticipated U.S. Cost of Pedicle Screw Vs. Luque Wire Instrumentation for Pediatric Neuromuscular Scoliosis Surgery?****A. Noelle Larson, MD;** Suken A. Shah, MD;

Scott J. Luhmann, MD; David W. Polly Jr, MD

2:57 PM–3:01 PM  
11**Clinical Impact of Adopting a Novel Post Operative Pathway on Post Operative Stay following Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis**

David Evan Lazarus, MD;

Benjamin Geddes, BS; Robert Owen, BA;

Phillip Mitchell, MD; Michael L. Schmitz, MD;

Dennis P. Devito, MD;

**Nicholas D. Fletcher, MD**

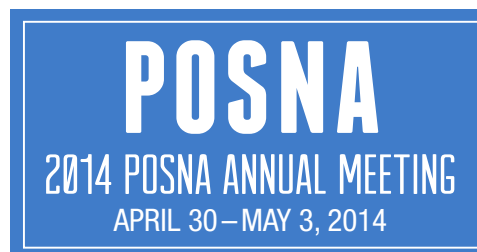
- 3:02 PM–3:06 PM  
**12** **Implementation of an Accelerated Discharge Pathway Reduced Hospital Stay following Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis by Nearly 50%: A Multi-center Comparative Study**  
**Nicholas D. Fletcher, MD;**  
*Lindsay Andras, MD;*  
*David Evan Lazarus, MD; Robert Owen, BA;*  
*Benjamin Geddes, BS; Jessica Cao, BS;*  
*David L. Skaggs, MD;*  
*Timothy Stephen Oswald, MD;*  
*Robert W. Bruce, MD*
- 3:07 PM–3:15 PM DISCUSSION
- 3:16 PM–3:20 PM  
**13** **Improving the Process of Care for Developmental Dysplasia of the Hip**  
*Mackenzie Marie Herzog, BA;*  
**Tim Schrader, MD**
- 3:21 PM–3:25 PM  
**14** **Evaluation of Patient Satisfaction Scores in Pediatric Orthopaedics**  
**Lee S. Segal, MD;** *Carla Plantikow, MSc;*  
*Randon Hall, MD; Michael Wade Shrader, MD*
- 3:26 PM–3:30 PM  
**15** **The Use of 6 Axis External Fixation is Overall More Cost-effective than Ilizarov for Canadian Health Care Centers**  
*Elisabeth Leblanc, MD;*  
*Khalid Alkhelaifi, MD;*  
*Mohammad Alzahrani, MD;*  
**Marie Gdalevitch, MD**
- 3:31 PM–3:39 PM DISCUSSION
- 3:40 PM–4:00 PM BREAK

## FOOT / ANKLE

**Moderator:** Steven L. Frick, MD  
**President:** Pooya Hosseinzadeh, MD  
**e-Moderator:** Scott J. Mubarak, MD

- 4:01 PM–4:05 PM  
**16** **Ponseti Corrected Clubfeet at Age Two Years: Is the Story Finished?**  
**B. Stephens Richards, MD;**  
*Shawne Faulks, MSN, RN, CNS;*  
*Lori A. Karol, MD*
- 4:06 PM–4:10 PM  
**17** **Surgical Treatment of Congenital Idiopathic Clubfoot after “French” Functional Treatment: Outcome in a 10-Year Pro Study**  
*Nicolas Bocahut; Dr. Philippe Souchet;*  
*Keyvan Mazda, MD; Brice Ilharreborde, MD*
- 4:11 PM–4:15 PM  
**18** **Objective Measurement of Brace Compliance in Idiopathic Clubfoot Treatment**  
**Karl E. Rathjen, MD;** *Donald D. Virostek;*  
*Kevin Felton; Megan Urrutia;*  
*Shawne Faulks, MSN, RN, CNS;*  
*B. Stephens Richards, MD*
- 4:16 PM–4:24 PM DISCUSSION

- 4:25 PM–4:29 PM  
**19** **Recurrent Forefoot Adductus is a Predictor of Future Surgery in Clubfeet Treated by Ponseti Casting**  
*Pooya Hosseinzadeh, MD;*  
*Erik D. Peterson, MD; Ryan D. Muchow, MD;*  
*Vishwas R. Talwalkar, MD;*  
*Janet Walker, MD; Henry J. Iwinski, MD;*  
**Todd A. Milbrandt, MS, MD**
- 4:30 PM–4:34 PM  
**20** **Is the Anterior Tibialis Weaker after Transfer in Children with Clubfeet?**  
**Todd A. Milbrandt, MS, MD;**  
*Hank White, PT, PhD;*  
*Juanita Jean Wallace, MS;*  
*Samuel F. Augsburg, MS;*  
*Vishwas R. Talwalkar, MD;*  
*Ryan D. Muchow, MD; Henry J. Iwinski, MD;*  
*Janet Walker, MD*
- 4:35 PM–4:39 PM  
**21** **Determination of Peak Growth Acceleration from Ossification of the Calcaneal Apophysis**  
**Daniel Cooperman, MD;** *Allen Nicholson;*  
*Raymond W. Liu, MD; James O. Sanders, MD*
- 4:40 PM–4:48 PM DISCUSSION
- 4:49 PM–4:53 PM  
**22** **Prospective Comparison of Subtalar Arthroereisis and Lateral Column Lengthening for Painful Flatfeet**  
**David Chong, MD;** *Bruce A. MacWilliams;*  
*Theresa A. Hennessey, MD;*  
*Noelle Teske, MSc; Peter M. Stevens, MD*
- 4:54 PM–4:58 PM  
**23** **Rate of Correction and Recurrence of Ankle Valgus in Children using a Transphyseal Medial Malleolar Screw**  
**Frank M. Chang, MD;** *Julie Ma, BA;*  
*Zhaoxing Pan; Liliana Hoversten, BA;*  
*Eduardo N. Novais, MD*
- 4:59 PM–5:03 PM  
**24** **Using the Oxford Ankle Foot Questionnaire to Evaluate Children with Flexible Flatfeet. A Comparison with Typically Developing Feet and Cerebral Palsy**  
**Tim Theologis, MSc, PhD, FRCS;**  
*Alpesh Kothari, MD; Julie Stebbins, PhD;*  
*Amy Beth Zavatsky, PhD*
- 5:04 PM–5:12 PM DISCUSSION



## THURSDAY, MAY 1

8:00 AM–8:04 AM **WELCOME AND REMARKS****HIP****Moderator:** Ernest L. Sink, MD**President:** Kevin E. Klingele, MD**e-Moderator:** David A. Podeszwa, MD

8:04 AM–8:08 AM  
25 **Successful Pavlik Harness Treatment for Developmental Dysplasia of the Hip and Normal X-Ray at Age Two: Is a Longer Follow-up Necessary ?**  
*Nanni Allington, MD*

8:09 AM–8:13 AM  
26 **Radiographic Follow-up for DDH after 6 Months of Age: Are X-Rays Necessary after a Normalized Ultrasound?**  
*Wudbhav N. Sankar, MD;*  
*Eric Jora Sarkissian, BS;*  
*John (Jack) M. Flynn, MD*

8:14 AM–8:18 AM  
27 **The Complication Rate for Treatment of Developmental Dysplasia of the Hip with the Pavlik Harness**  
*Pablo Castañeda, MD;*  
*Valentin Noriega Sr, MD;*  
*Carlos Alejandro Brambila, MD*

8:19 AM–8:27 AM DISCUSSION

8:28 AM–8:32 AM  
28 **A Re-evaluation of Commonly Accepted Risk Factors for Developmental Dysplasia of the Hip: Population-based Cohort Study**  
*Andreas Roposch, MD, MSc, FRCS;*  
*Evangelia Protopapa, MSc;*  
*Saboura Mahdavi; Olivia Málaga-Shaw;*  
*Yael Gelfer, MD; Ajay Asokan;*  
*Paul Humphries, MBBS; Fatima Jichi;*  
*Rumana Omar*

8:33 AM–8:37 AM  
29 **Association between Referral Pattern and Prevalence of Developmental Dysplasia of the Hip (DDH): A Prospective Cohort Study**  
*Benjamin Escott, MBBS, MSc;*  
*Augusta Lloyd, MS; Lauren Paraison, BA;*  
*Chan-Hee Jo, PhD;*  
*Adriana De La Rocha, MS;*  
*Daniel J. Sucato, MD, MS*

8:38 AM–8:42 AM  
30 **Referral for Breech Presentation does Not Correlate with a Diagnosis of DDH in Children Less than One Year of Age**  
*Daniel J. Sucato, MD, MS;*  
*Augusta Lloyd, MS; Adriana De La Rocha, MS;*  
*Brigid N. Maloney, MS; Erica Flores, RN, MSN;*  
*Lauren Paraison, BA*

8:43 AM–8:51 AM DISCUSSION

8:52 AM–8:56 AM  
31 **Residual Dysplasia after Treatment with Pemberton Vs. Salter Osteotomy for DDH: Mean 10-Year Follow-up**  
*Daniel J. Sucato, MD, MS;*  
*Adriana De La Rocha, MS;*  
*Chester John Donnally III, BS;*  
*Brigid N. Maloney, MS;*  
*David A. Podeszwa, MD; Lori A. Karol, MD*

8:57 AM–9:01 AM  
32 **The Medial Dye Pool Revisited: Correlation Between Arthrography and MRI in Closed Reductions for DDH**  
*Wudbhav N. Sankar, MD; Itai Gans, BS*

9:02 AM–9:06 AM  
33

9:07 AM–9:15 AM

9:16 AM–9:20 AM  
349:21 AM–9:25 AM  
359:26 AM–9:30 AM  
36

9:31 AM–9:39 AM

9:40 AM–9:44 AM  
379:45 AM–9:49 AM  
389:50 AM–9:54 AM  
39

9:55 AM–10:03 AM

10:04 AM–10:19 AM

10:20 AM–10:34 AM

**Age at Presentation does Not Influence Failure Rate of Open Reduction of an Idiopathic Dislocated Hip**

*Chukwudi K. Chukwunyeremwa, MD;*  
*Adriana De La Rocha, MS;*  
*Brigid N. Maloney, MS; Yavuz Saglam, MD;*  
*Megan Lynn Young, MD; David A. Podeszwa, MD; Karl E. Rathjen, MD*

DISCUSSION

**Patient Factors Associated with Delayed Diagnosis of Developmental Dysplasia of the Hip**

*Antoinette W. Lindberg; Klane K. White, MD;*  
*Viviana Bompadre, PhD;*  
*Amanda Celest Roof, MD;*  
*Emma K. Satchell, BA*

**Efficacy and Satisfaction Comparing Two Braces in the Treatment of DDH: A Randomized Clinical Pilot**

*Virginia F. Casey, MD;*  
*J. Michael Wattenbarger, MD;*  
*Christian Clark, MD*

**Long-term Outcomes of Operative and Nonoperative Treatment of Congenital Coxa Vara**

*David W. Roberts, MD; Yavuz Saglam, MD;*  
*Adriana De La Rocha, MS;*  
*Brigid N. Maloney, MS;*  
*Harry Kwang-Woo Kim, MD*

DISCUSSION

**Severity of Dysplasia and Patient Activity Predict Age of Presentation for Periacetabular Osteotomy for Symptomatic Hip Dysplasia**

*Travis Matheney, MD;*  
*Young Jo Kim, MD, PhD; Ira Zaltz, MD;*  
*John C. Clohisy, MD; David Zurakowski PhD;*  
*Michael B. Millis, MD*

**Total Hip Arthroplasty in Patients 21 and Younger Using Highly Cross Linked Polyethylene: Excellent Survivorship at 5 Years**

*John C. Clohisy, MD; Geneva Baca;*  
*Gail Pashos; Frank C. Bohnenkamp, MD;*  
*Adam Sassoon, MD*

**Periacetabular Osteotomy for the Treatment of Acetabular Dysplasia Secondary to Charcot-Marie-Tooth Disease is Associated with Similar Clinical Improvement but Higher Complication Rate when Compared to Developmental Dysplasia of the Hip**

*Eduardo N. Novais, MD;*  
*Young Jo Kim, MD, PhD; Patrick Carry;*  
*Michael B. Millis, MD*

DISCUSSION

**DISTINGUISHED ACHIEVEMENT AWARD**

BREAK

# CONCURRENT SESSION I: SPINE

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

**Presider:** A. Noelle Larson, MD

**e-Moderator:** Michael G. Vitale, MD

- 10:35 AM–10:39 AM  
40 ♦ **Final Fusion after Growing Rod Treatment for Early Onset Scoliosis: Is it Really Final?**  
**Christina K. Hardesty, MD;** Connie Poe-Kochert, RN; Claire Shannon, MD; Jeff Pawelek; George H. Thompson, MD; David S. Marks, FRCS; Behrooz A. Akbarnia, MD; Richard E. McCarthy, MD; John B. Emans, MD
- 10:40 AM–10:44 AM  
41 **Pulmonary Outcomes of VEPTR Expansion Thoracoplasty in Early Onset Scoliosis**  
**Vincent F. Deeney, MD;** Ozgur Dede, MD; Etsuro Motoyama; Rebecca Mutich, BS; Charles Inshik Yang, BS, MD, MS; Austin Bowles, MS
- 10:45 AM–10:49 AM  
42 **Delayed VEPTR Implantation Results in Similar Radiographic Outcomes with Fewer Complications**  
**Vidyadhar S.V. Upasani, MD;** John B. Emans, MD; John Taylor Smith, MD; Randal R. Betz, MD; John (Jack) M. Flynn, MD; Michael P. Glotzbecker, MD
- 10:50 AM–10:58 AM DISCUSSION
- 10:59 AM–11:03 AM  
43 ♦ **Traditional Growing Rods Vs. Magnetically Controlled Growing Rods in Early Onset Scoliosis: A Case-matched Two-Year Study**  
**Behrooz A. Akbarnia, MD;** Kenneth M.C. Cheung, MD; Gokhan Halil Demirkiran, MD; Hazem B. Elsebaie, MD; John B. Emans, MD; Charles E. Johnston II, MD; Gregory Michael Mundis, MD; Hilali H. Noordeen, FRCS; Jeff Pawelek; Matthew Shaw, MBBS FRCS; David L. Skaggs, MD; Paul D. Sponseller, MD; George H. Thompson, MD; Muharrem Yazici, MD; Growing Spine Study Group
- 11:04 AM–11:08 AM  
44 ♦ **Case-matched Comparison of Spinal Fusion Vs. Growing Rods for the Surgical Treatment of Progressive Idiopathic Scoliosis in Skeletally Immature Patients**  
Jeff Pawelek; **Burt Yaszay, MD;** Stacie Nguyen, MPH; Peter O. Newton, MD; Gregory Michael Mundis, MD; Behrooz A. Akbarnia, MD; Harms Study Group; Growing Spine Study Group
- 11:09 AM–11:13 AM  
45 **A Prospective Multi-center Study of Neuromonitoring for Cerebral Palsy Scoliosis: The Nature and Rate of Alerts and Recovery of Changes**  
**Suken A. Shah MD;** Paul D. Sponseller, MD; Peter O. Newton, MD; Burt Yaszay, MD; Firoz Miyanji, MD; Amer Samdani, MD; Mark F. Abel, MD
- 11:14 AM–11:22 AM DISCUSSION

- 11:23 AM–11:27 AM  
46 **Genetic Test for Progression of Adolescent Idiopathic Scoliosis: Clinical Experience Vs. Historical Controls**  
**Keith P. Mankin MD**
- 11:28 AM–11:32 AM  
47 **Effectiveness of Spinecor Brace Vs. Rigid Brace for Treatment of Adolescent Idiopathic Scoliosis: A Prospective Randomized Controlled Trial using the Scoliosis Research Society Standardized Criteria**  
**Lam Tsz Ping, MBBS,FRCS;** Jing Guo; Man Sang Wong, CPO, PhD; Bobby Kin Wah Ng, MD; Kwong Man Lee; King Lok Liu; Alec Lik Hang Hung; Fiona Wai Ping Yu; Yong Qiu; Jack C-Y Cheng, MD
- 11:33 AM–11:37 AM  
48 **The Use of Chewing Gum Postoperatively in Pediatric Scoliosis Patients Facilitates an Earlier Return to Normal Bowel Function**  
**Joseph G. Khoury, MD;** Jonathan K. Jennings, MD; J. Scott Doyle, MD; Shawn R. Gilbert, MD; Michael Conklin, MD
- 11:38 AM–11:46 AM DISCUSSION
- 11:47 AM–11:52 AM  
49 **The Effect of Time and Fusion Length on Motion of the Un-fused Lumbar Segments in Adolescent Idiopathic Scoliosis**  
**Michelle Marks, PT, MA;** Tracey Bastrom, MA; Maty Petcharaporn, BS; Suken A. Shah, MD; Amer Samdani, MD; Randal R. Betz, MD; Baron Lonner, MD; Firoz Miyanji, MD; Peter O. Newton, MD
- 11:53 AM–11:57 AM  
50 **A Prospectively Collected Multi-center Cohort Analysis of Anterior Vs. Posterior Spinal Fusion for Lenke 5 (Thoracolumbar / Lumbar) Adolescent Idiopathic Scoliosis**  
**Sumeet Garg, MD;** Mark A. Erickson, MD; Brendan Caprio, BS; Cameron R. Niswander, BA; Zhaoxing Pan; John B. Emans, MD
- 11:58 AM–12:02 PM  
51 ♦ **Safety of Topical Vancomycin for Pediatric Spinal Deformity: Non-Toxic Serum Levels with Supratherapeutic Drain Levels**  
**Jeffrey E. Martus, MD;** Sheyan J. Armaghani, MD; Travis James Menge, MD; Steven A. Lovejoy, MD; Gregory A. Mencia, MD
- 12:03 PM–12:11 PM DISCUSSION
- 12:12 PM–12:16 PM  
52 **Does Leveling the Upper Thoracic Spine have any Impact on Post-operative Clinical Shoulder Balance in Lenke 1 and 2 Patients?**  
Dzulkarnain Amir, MD; **Burt Yaszay, MD;** Carrie Bartley, MA; Tracey Bastrom, MA; Peter O. Newton, MD
- 12:12 PM–12:16 PM  
53 **Complications Associated with Temporary Internal Distraction in Severe Scoliosis**  
**Robert H. Cho, MD;** Graham Fedorak, MD

## THURSDAY, MAY 1

- 12:22 PM–12:26 PM  
54 **Do Crosslinks Improve Clinical or Radiographic Outcomes of Posterior Spinal Fusion with Pedicle Screws in Adolescent Idiopathic Scoliosis? A Multi-center Cohort Study**  
**Sumeet Garg, MD;**  
Cameron R. Niswander, BA; Zhaoxing Pan;  
Mark A. Erickson, MD

12:27 PM–12:35 PM DISCUSSION

## CONCURRENT SESSION II: LE / NM

**Moderator:** Lori A. Karol, MD

**President:** Amy L. McIntosh, MD

**e-Moderator:** Henry (Hank) G. Chambers, MD

- 10:35 AM–10:39 AM  
55 **Epidural Anesthesia Vs. Continuous Peripheral Nerve Blocks for Pain Management after Lower Extremity Long Bone Osteotomies in Pediatric Patients**  
**Jeremy D. Onnen, MD;**  
Peter M. Stevens, MD;  
Stephanie M. Holmes, MD;  
Stephen Spanos, MD; Jay Harnden, MD;  
Jon Knott
- 10:40 AM–10:44 AM  
56 **Results of Tibial Epiphysiodesis using Eight-Plate in Leg Length Discrepancy**  
Elodie Gaumetou; **Keyvan Mazda, MD;**  
Brice Ilharreborde, MD
- 10:45 AM–10:49 AM  
57 **Circular External Fixation for Correction of Deformity in Blount Disease**  
**Stephanie W. Mayer, MD;** Dan Sun, BS;  
Robert Kamel Lark, MD; Robert D. Fitch, MD
- 10:50 AM–10:58 AM DISCUSSION
- 10:59 AM–11:03 AM  
58 **EOS as a New Means of Accessing Femoral Version: A Comparison Study of EOS Vs. Computed Tomography**  
Michael Lucius Pomerantz, MD;  
Diana A. Glaser, PhD; Amy Fredrick;  
Josh Doan, MS; Sita Kumar;  
**Eric W. Edmonds, MD**
- 11:04 AM–11:08 AM  
59 **Core Decompression and Bone Marrow Aspirate Concentrate for Treatment of Perthes Disease**  
**Karen Bovid, MD;** Tim Schrader, MD
- 11:09 AM–11:13 AM  
60 **Efficacy of the Modified Bröstrom Repair for Adolescent Patients Suffering from Chronic Lateral Ankle Instability**  
Jared T. Lee, MD; Adam Nasreddine, BS, MA;  
Nicole Jean Stenquist;  
**Mininder S. Kocher, MD**
- 11:14 AM–11:22 AM DISCUSSION
- 11:23 AM–11:27 AM  
61 **The Fate of the Neuromuscular Hip after Spinal Fusion**  
**Lindsay M. Crawford, MD;**  
Jose A. Herrera-Soto, MD;  
Jonathan H. Phillips, MD;  
Dennis Raymond Knapp, Jr, MD

11:28 AM–11:32 AM  
62

**Effect of Continuous Intrathecal Baclofen Therapy on Walking Children with Cerebral Palsy**

Blazej A. Pruszczyński, MD;  
**Julianne P. Sees, DO;**  
John D. Henley, PhD; Chris Church, PT;  
Kenneth J. Rogers, PhD; Freeman Miller, MD

11:33 AM–11:37 AM  
63

**Body Composition in Ambulatory Children with Cerebral Palsy is Related to Health and Environmental Factors**

**Henry J. Iwinski, MD;**  
Donna Jean Oeffinger, PhD;  
Neeley Buhr, MS; Janet Walker, MD;  
Todd A. Milbrandt, MD, MS;  
Vishwas R. Talwalkar, MD

11:38 AM–11:46 AM DISCUSSION

11:47 AM–11:52 AM  
64

**Comparison of Hamstring Lengthening with Hamstring Lengthening Plus Transfer for Treatment of Flexed Knee Gait in Ambulatory Patients with Cerebral Palsy**

**Michael D. Sussman, MD;**  
Camila B. R. De Mattos, MD; K. Patrick Do;  
Rosemary Pierce, PT; Jing Feng, PhD

11:53 AM–11:57 AM  
65

**The Role of Rectus Femoris Transfer in the Development of Crouch Knee Gait in Cerebral Palsy**

**Mauro C. De Morais Filho, MD;**  
Francesco Camara Blumetti, MD;  
Catia Miyuki Kawamura, PT;  
Michelle De Oliveira Cardoso, MD;  
Daniella Neves, MD; Marcelo Hideki Fujino;  
Jose Augusto Fernandes Lopes, MSc

11:58 AM–12:02 PM  
66

**Lower Extremity Malrotation Recurrence in Ambulatory Children with Cerebral Palsy**

**Robert M. Kay, MD;** Alexander M. Broom;  
Susan Ann Rethlefsen, PT; Tishya Wren, PhD

12:03 PM–12:11 PM DISCUSSION

12:12 PM–12:16 PM  
67

**Assessment of the Predictors of Post-Operative Length of Stay in Neuromuscular Patients Undergoing Reconstructive Hip Surgery**

**Matthew E. Oetgen, MD;** Lily Adler;  
Catherine Wetmore Gillespie, MPH, PhD;  
Allison Matthews, MS; Karen M. Thomson

12:12 PM–12:16 PM  
68

**Solid Vs. Floor Reaction Ankle-Foot-Orthoses for Children with Cerebral Palsy**

**Ryan D. Muchow, MD;**  
Hank White, PT, PhD;  
Juanita Jean Wallace, MS;  
Samuel F. Augsburg, MS;  
Todd A. Milbrandt, MD, MS;  
Vishwas R. Talwalkar, MD;  
Henry J. Iwinski, MD; Janet Walker, MD

12:22 PM–12:26 PM  
69

**Relationship of Strength, Weight, Age, and Function in Ambulatory Children with Cerebral Palsy**

**Jon R. Davids, MD;**  
Donna Jean Oeffinger,  
PhD; Anita Bagley, PhD;  
Mitell Sison-Williamson, MS;  
George E. Gorton III, MS

12:27 PM–12:35 PM DISCUSSION

# FRIDAY, MAY 2

8:00 AM – 8:04 AM **WELCOME AND UPDATES**

## CLINICAL AWARD PAPERS

**Moderator:** Dennis R. Wenger, MD  
**Presider:** William L. Hennrikus, MD  
**e-Moderator:** James McCarthy, MD

8:05 AM – 8:09 AM **To Brace or Not? The Answer is “It Depends.” Preliminary Results from Braist**  
**70**  
*Lori A. Dolan, PhD; Stuart L. Weinstein, MD*

8:10 AM – 8:14 AM DISCUSSION

8:15 AM – 8:19 AM **Higher Implant Density does Not Result in Increased Curve Correction or Improved Clinical Outcomes in Adolescent Idiopathic Scoliosis**  
**71**  
*Suken A. Shah, MD; Tristan Nishnianidze, MD; Kenneth J. Rogers, PhD; Blazej A. Pruszczyński, MD; Petya Yorgova, MS; Baron Lonner, MD*

8:20 AM – 8:24 AM DISCUSSION

8:25 AM – 8:29 AM **An Evaluation of the Validity of a DNA-Based Prognostic Test for Adolescent Idiopathic Scoliosis**  
**72**  
*Benjamin D. Roye, MD; Margaret Wright, BS; Hiroko Matsumoto, MA; Petya Yorgova, MS; Geraldine Neiss, PhD; Joshua E. Hyman, MD; David Price Roye Jr, MD; Suken A. Shah, MD; Michael G. Vitale, MD, MPH*

8:30 AM – 8:34 AM DISCUSSION

8:35 AM – 8:39 AM **Treatment of Femur Fractures in Children Ages 2–6: A Multi-center Prospective Trial**  
**73**  
*J. Eric Gordon, MD; Charles L. Lehmann, MD; John Thomas Anderson, MD; Daniel G. Hoernschemeyer, MD; Kathryn Ann Keeler, MD; Scott J. Luhmann, MD; June C. O'Donnell, MPH; Perry L. Schoenecker, MD*

8:40 AM – 8:44 AM DISCUSSION

8:45 AM – 8:49 AM **Supracondylar Fractures with Isolated Anterior Interosseous Nerve Injuries: Are they Urgent Cases?**  
**74**  
*David L. Skaggs, MD; Kody Kenneth Barrett, BA; Jeffrey R. Sawyer, MD; Lindsay Andras, MD; Alice Moisan, BSN, RN, CCRP; Christine Goodbody, BA; John (Jack) M. Flynn, MD*

8:50 AM – 8:54 AM DISCUSSION

8:55 AM – 8:59 AM **75**

**Screening Inflammation and Coagulation Activity Allows for Rapid Risk Stratification in Children Presenting with Symptoms of Musculoskeletal Infection**  
*Jonathan G. Schoenecker, MD; Megan Mignemi, MD; Kathleen Byington, NP; Jeffrey E. Martus, MD, MS; Christopher M. Stutz, MD; Steven A. Lovejoy, MD; Gregory A. Mencia, MD*

9:00 AM – 9:04 AM DISCUSSION

9:05 AM – 9:09 AM **76**

**Pavlik Harness Treatment may not be Necessary for All Newborns with Ultrasonic Hip Dysplasia**  
*Harry K.W. Kim, MD; Augusta Lloyd, MS; Adriana De La Rocha, MS; Brigid N. Maloney, MS; Erica Flores, RN MSN; Chan-Hee Jo, PhD; Lauren Paraison, BA*

9:10 AM – 9:14 AM DISCUSSION

9:15 AM – 9:19 AM **77**

**Natural History of Scoliosis in Osteogenesis Imperfecta**  
*Peter A. Smith, MD; Alireza Anissipour, DO; Joseph Krzak, PT; Angela Caudill, MPT; Sahar Hassani, MS; Kim W. Hammerberg, MD*

9:20 AM – 9:24 AM DISCUSSION

9:25 AM – 9:29 AM **78**

**The Diagnostic Value of Intra-operative Monitoring and Early Post-operative Spect-bonescan in the Assessment of Femoral Head Vascularity after Surgical Dislocation for Slipped Capital Femoral Epiphysis**  
*Oliver Birke, MD; Kyle James, FRCS (Ortho), MBBS; Paul Gibbons; David G. Little, MBBS, FRACS, PhD*

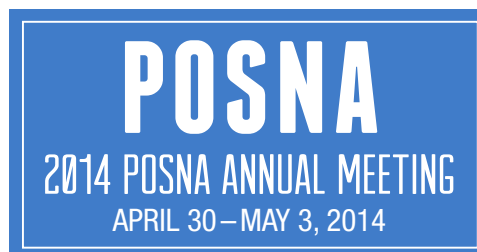
9:30 AM – 9:34 AM DISCUSSION

9:35 AM – 9:39 AM **79**

**Time and Money: Do Medicare RVUS Match Physician Time Requirements for Orthopaedic Procedures?**  
*Apurva S. Shah, MD, MBA; Jenniefer Y. Kho, MD; Phinit Phisitkul, MD; Peter Cram, MD, MBA; Alison L. Klaassen, MA*

9:40 AM – 9:44 AM DISCUSSION

9:45 AM – 10:05 AM BREAK



## FRIDAY, MAY 2

## BASIC SCIENCE AWARD PAPERS

**Moderator:** R. Tracy Ballock, MD

**President:** Donna M. Pacicca, MD

**e-Moderator:** Roger Cornwall, MD

- 10:06 AM–10:10 AM 80 ♦ **Local Administration of BMP-2 and Ibandronate Improves Bone Healing During Non-weight Bearing Treatment of Ischemic Osteonecrosis of the Femoral Head in Immature Pigs**  
*Harry K.W. Kim, MD; Olumide Aruwajoye, MS; Justin Y. Du; Nobuhiro Kamiya*
- 10:11 AM–10:15 AM 81 ♦ **RhBMP-2 and Zoledronic Acid Treatment in an Animal Model of Congenital Pseudarthrosis / NF1**  
*David G. Little, MD; Aaron Schindeler, PhD; Nikita Deo, BS*
- 10:16 AM–10:20 AM 82 **Pericytes as the Cell of Origin for Pediatric Osteosarcoma: Implications for the Development of a New Approach to Therapy**  
*Benjamin A. Alman, MD, FRCSC; Shingo Sato, MD; Quingxia Wei, PhD*
- 10:21 AM–10:29 AM DISCUSSION
- 10:30 AM–10:34 AM 83 **Increased Incidence of Private Variants in the Marfan Syndrome Fibrillin-1 Gene in Adolescent Idiopathic Scoliosis Patients**  
*Matthew B. Dobbs, MD*
- 10:35 AM–10:39 AM 84 **Direct Growth Stimulation Using Local Growth Hormone: A Proof of Principle Study**  
*Benjamin A. Alman, MD, FRCSC; David Lebel, MD*
- 10:40 AM–10:44 AM 85 **The Development of Vascularity in a Healing Fracture**  
*Jonathan G. Schoenecker, MD; Masato Yuasa, PhD; Nicholas Mignemi, BS*
- 10:45 AM–10:49 AM DISCUSSION
- 10:50 AM–10:52 AM **INTRODUCTION OF PRESIDENTIAL SPEAKER**
- 10:53 AM–11:13 AM **PRESIDENTIAL SPEAKER**
- 11:14 AM–11:29 AM **POSNA ANNUAL MEETING 2015**
- 11:30 AM–12:00 PM **PRESIDENTIAL TRANSFER**
- 12:01 PM–1:00 PM LUNCH

## SATURDAY, MAY 3

7:45 AM–7:49 AM

**WELCOME AND REMARKS**

## TRAUMA

**Moderator:** Martin J. Herman, MD

**President:** Anthony I. Riccio, MD

**e-Moderator:** Ellen M. Raney, MD

- 7:50 AM–7:54 AM 86 **Adult Trauma Surgeons More Frequently Offer Surgery to Adolescents with Displaced Clavicle Fractures**  
*A. Noelle Larson, MD; Tianyi David Luo, BS; Ali Ashraf, MD; Amy L. McIntosh, MD; Anthony A. Stans, MD; William J. Shaughnessy, MD*
- 7:55 AM–7:59 AM 87 **Outcomes of Operative and Non-operative Treatment of Adolescent Clavicle Fractures**  
*Benton E. Heyworth, MD; Sasha Carsen, MD, MBA; Collin J. May, MD; Kyna Silvana Donohue; Dennis E. Kramer, MD; Mininder S. Kocher, MD; Donald S. Bae, MD*
- 8:00 AM–8:04 AM 88 **Severity of Soft Tissue Injury is Associated with Neurovascular Injury in Pediatric Supracondylar Humerus Fractures**  
*Christine Ann Ho, MD; David A. Podeszwa, MD; Anthony I. Riccio, MD; Robert Lane Wimberly, MD; William T. Gheen, BA*
- 8:05 AM–8:13 AM DISCUSSION
- 8:14 AM–8:19 AM 89 **Clinical and Radiographic Outcomes after Submuscular Plating (SMP) of Pediatric Femoral Shaft Fractures**  
*Jason W. Stoneback, MD; Katherine Davies; Patrick Carry; Zhaoxing Pan; Ernest L. Sink, MD; Nancy H. Miller, MD*
- 8:20 AM–8:24 AM 90 **Transverse Femoral Shaft Fractures are a Better Predictor of Non-accidental Trauma than Spiral Fractures in Young Children**  
*Jeffrey R. Sawyer, MD; Derek M. Kelly, MD; Ryan Paul Murphy; William C. Warner Jr, MD; Alice Moisan, BSN, RN, CCRP; Norfleet Buckner Thompson, MD; David D. Spence, MD; James H. Beaty, MD*
- 8:25 AM–8:29 AM 91 **Tibial Shaft Fractures in Adolescents: Analysis of Cast Treatment Successes and Failures**  
*Christine Ann Ho, MD; Gregory Gordon Dammann, MD; Jeffrey Levy, DO; David A. Podeszwa, MD*
- 8:30 AM–8:38 AM DISCUSSION

8:39 AM–8:43 AM  
92

**Hematoma Block Vs. Conscious Sedation: A Prospective Study Comparing Methods of Analgesia used for the Reduction of Distal Radius Fractures in Children**  
*Nicole A. Friel, MD; David Bear, MD; Charles Lupo, MD; Raymond Pitetti, MD, MPH; W. Timothy Ward, MD*

8:44 AM–8:47 AM  
93

**Pediatric Non Fracture Related Compartment Syndrome: A Review of 39 Cases**  
*Kristin O. Livingston, MD; Patricia Miller, MS; Michael P. Glotzbecker, MD; Daniel J. Hedequist, MD; Benjamin J. Shore, MD, MPH, FRCSC*

8:48 AM–8:52 AM  
94

**Syndesmosis Injuries in the Pediatric Population: An Analysis of Risk Factors Related to Operative Intervention**  
*Benjamin J. Shore, MD, MPH, FRCSC; Mark Xavier Cleary, BS; Patricia Miller, MS; Yi-Meng Yen, MD, PhD; Dennis E. Kramer, MD*

8:53 AM–9:01 AM

DISCUSSION

9:02 AM–9:06 AM  
95

**Open Reduction of Fully Displaced Pediatric Femoral Neck Fractures Results in Higher Quality of Reduction and Lower Rates of Osteonecrosis than Closed Reduction**  
*Eduardo N. Novais, MD; Joseph Daniel Stone, MD; Mary Katherine Hill, BA; Zhaoxing Pan*

9:07 AM–9:11 AM  
96

**One Brace–One Visit: Treatment of Distal Radius Buckle Fractures in Children with a Removable Wrist Brace and No Follow-up Visit**  
*Byron Izuka, MD; Megan H.M. Kuba, MD; Krister P. Freese, MD*

9:12 AM–9:16 AM  
97

**Lower Bone Strength, Density and Trabecular Microstructure at the Distal Radius is Associated with Increased Risk of Forearm Fracture in Young Girls**  
*Kishore Mulpuri, MD; Mikko Maatta; Christa Hoy, MSc; Douglas Race, MA; Lindsay Nettlefold, PhD; Leigh Gabel, MSc; Heather Macdonald; Heather McKay, PhD*

9:17 AM–9:25 AM

DISCUSSION

## SPORTS

**Moderator:** Jennifer M. Weiss, MD  
**Presider:** M. Lucas Murnaghan, MD  
**e-Moderator:** Lawrence Wells, MD

9:26 AM–9:30 AM  
98

**Reconstruction of Symptomatic Congenital Anterior Cruciate Ligament Insufficiency**  
*Jeffrey Nepple, MD; Adam Nasreddine, BS, MA; Mininder S. Kocher, MD*

9:31 AM–9:35 AM  
99

**Computer-simulated Arthroscopic Knee Surgery: Effects of Distraction**  
*Michelle S. Caird, MD; James Cowan, MD; Mark Seeley, MD; Todd A. Irwin, MD; Deborah Moulton Rooney, PhD*

9:36 AM–9:40 AM  
100

**Prevalance of Bilateral JOCD of the Knee and Associated Risk Factors**  
*Kevin E. Klingele, MD; Trent Cooper, DO, MS; Walter P. Samora III, MD*

9:41 AM–9:49 AM

DISCUSSION

9:50 AM–9:54 AM  
101

**Glenoid Bone Loss in Traumatic Glenohumeral Instability in the Adolescent Population**  
*Henry B. Ellis, Jr, MD; Kelsey Wise, BA; Max Seiter, BS; Philip L. Wilson, MD*

9:55 AM–9:59 AM  
102

**Traumatic Anterior Instability of the Adolescent Shoulder: A Comparison of Arthroscopic and Open Bankart Repairs**  
*Stephen J. Shymon, BA; Joanna Helena Roocroft, MA; Eric W. Edmonds, MD*

10:00 AM–10:04 AM  
103

**Results of Non-operative and Operative Management of Apophyseal Avulsion Fractures of the Hip and Pelvis in Adolescent Athletes**  
*Yi-Meng Yen, MD; Benton E. Heyworth, MD; Bryant Bonner, BA; Michael B. Millis, MD; Mininder S. Kocher, MD; Lyle J. Micheli, MD*

10:05 AM–10:13 AM

DISCUSSION

10:14 AM–10:34 AM

BREAK

## INFECTIONS/TUMORS

**Moderator:** Benjamin A. Alman, MD  
**Presider:** Cordelia W. Carter, MD  
**e-Moderator:** Michelle S. Caird, MD

10:35 AM–10:39 AM  
104

**Risk Factors for Multiple Surgeries to Treat Musculoskeletal Infections in Children**  
*Vinitha R. Shenava, MD; Matthew Charles Starke, BS; Wei Zhang, PhD; John Rapier Dawson, MD; William A. Phillips, MD*

10:40 AM–10:44 AM  
105

**Validating an Algorithm to Predict Adjacent Musculoskeletal Infections in Septic Arthritis**  
*Scott B. Rosenfeld, MD; Benjamin Darrel Welling, BS; Wei Zhang, PhD*

10:45 AM–10:49 AM  
106

**Management of Pediatric Hip Synovial Fluid WBC Values Between 25,000–75,000 following Aspiration**  
*Benton E. Heyworth, MD; Michael P. Glotzbecker, MD; Kyna Silvana Donohue; Aubrey M. Wasser, MPH; Mininder S. Kocher, MD; Benjamin J. Shore, MD, MPH, FRCSC*

10:50 AM–10:58 AM

DISCUSSION

10:59 AM–11:03 AM  
107

**Osteoid Osteoma about the Hip in Children and Adolescents**  
*Collin May, MD; Sarah Bixby, MD; Megan E. Anderson, MD; Yi-Meng Yen, MD; Young Jo Kim, MD, PhD; Michael B. Millis, MD; Benton E. Heyworth, MD*

## SATURDAY, MAY 3

- 11:04 AM–11:08 AM 108 **CT-Guided Radiofrequency Thermoablation in the Treatment of Osteoid Osteoma in Children**  
*Alexandre Arkader, MD;*  
*Elizabeth Joiner, BS; David Ibrahim, MD;*  
*Philip Stanley; Javier F. Descalzi, MD;*  
*J. Dominic Femino, MD*
- 11:09 AM–11:13 AM 109 **Can You Retain Spinal Implants in Acute Post-operative Infections?**  
*Jaime A. Gomez, MD;*  
*Michael P. Glotzbecker, MD;*  
*Michael John Troy, BS; Patricia Miller, MS;*  
*Michael Timothy Hresko, MD;*  
*Lawrence I. Karlin, MD;*  
*Brian Snyder, MD, PhD; John B. Emans, MD;*  
*Daniel J. Hedequist, MD*
- 11:14 AM–11:22 AM DISCUSSION

## CONGENITAL/SYNDROMES

- 11:23 AM–11:27 AM 110 **Mid-term Results of Percutaneous Osteotomies and Fassier-Duval Nailing in Children with Osteogenesis Imperfecta**  
*Paul W. Esposito, MD*
- 11:28 AM–11:32 AM 111 **Outcomes of Tibial Derotational Osteotomies in Patients with Myelodysplasia**  
*Vineeta T. Swaroop, MD;*  
*Erik Brian Eller, MD; Luciano Dias, MD*
- 11:33 AM–11:37 AM 112 **High Incidence of Cervical Deformity and Instability Requires Surveillance in Loeys-Dietz Syndrome**  
*Paul D. Sponseller, MD;*  
*Sara Kathleen Fuhrhop, BS;*  
*Mark J. McElroy, BS, MS; Harry Dietz, MD*
- 11:38 AM–11:46 AM DISCUSSION

**POSNA**  
2014 POSNA ANNUAL MEETING  
APRIL 30–MAY 3, 2014

## YOUNG MEMBERS FORUM

## THURSDAY, MAY 1

## 5:00 PM–6:30 PM

- 5:00 PM–5:20 PM **Research: Obtaining and Using Protected Time, Finding Research Mentors, Collaborating with Colleagues in Multi-center Studies**  
*Mininder S. Kocher, MD*
- 5:20 PM–5:40 PM **Perspectives on Pediatric Orthopaedics at Mid-Career**  
*John (Jack) M. Flynn, MD*
- 5:40 PM–6:00 PM **Mentors in Pediatric Orthopaedics**  
Finding and using Mentors, Being a Mentor, the Value of Mentoring  
*James H. Beaty, MD; Vernon T. Tolo, MD*
- 6:00 PM–6:30 PM Discussion  
*Brian G. Smith, MD*

THURSDAY, MAY 1

**1:00 PM – 2:30 PM****Chair:** Jill Ariagno, MSN, RN, CPNP**Co-Chair:** Jessica Staschak MSN, RN, CPNP**Prevention of Surgical Site Infections in Pediatric Orthopaedic Surgery**

1:00 PM – 1:35 PM

**Presentation I: Evidenced Based SSI Prevention Strategies****Presenter:** Jason Newland, MD, MEd, Kansas City, MO

1:35 PM – 1:45 PM

DISCUSSION

1:45 PM – 2:20 PM

**Presentation II: Continuum of Care Approach in Preventing SSIs in Spinal Fusion Cases****Presenter:** Josh Schaffzin MD, PhD, FAAP, Cincinnati, OH

2:20 PM – 2:30 PM

DISCUSSION

CME credit is not available for the NP/PA symposium.

**1:00 PM – 3:30 PM****Serving the Pediatric Orthopaedic Needs in Resource Challenged Environments: An International Perspective****Moderator:** Richard H. Gross, MD**Part I. The Past**

1

**The History of Pediatric Orthopaedics in Developing Countries**

Hugh G. Watts, MD

2

**The COUR Committee – How it Started, What it does**

Sanjeev Sabharwal, MD, MPH

**Part II. The Present**

3

**Perspectives from Developing Countries – “What We Need and What We Don’t Need”**

a. Benjamin Joseph, MD, India

b. AlaaEldin A. Ahmad, MD, Palestine

4

**Other Organizations**

a. SICOT

Joshua E. Hyman, MD

b. The SIGN Program and the Pediatric Nail

Greg A. Schmale, MD

5

**The POSNA – COUR International Scholar Program – The First 7 Years**

Eric Fornari, MD

**Part III. The Future**

6

**A Proposal for Curriculum Development for COUR Programs in Developing Countries**

Richard H. Gross, MD

**Part IV. Freewheeling Panel and Audience Discussion****Part V. COUR Scholar Presentations**

# 2014 POSNA SUBSPECIALTY DAY AGENDA

## HIP SUBSPECIALTY DAY

1:00 PM–5:15 PM

**Co-Chairs:** Pablo Castaneda, MD and Ira Zaltz, MD

### PERIOD 1

1:00 PM–2:15 PM

#### Infant DDH Indications and Complications

**Moderator:** Pablo Castaneda, MD

1:00 PM–1:09 PM

#### Timing and Technique for an Anterior Open Reduction

Simon P. Kelley, FRCS

1:10 PM–1:19 PM

#### How I Approach Redislocation after Open Reduction

Colin F. Moseley, MD

1:20 PM–1:29 PM

#### Indications and Techniques for an Acetabuloplasty and/or Femoral Osteotomy

Travis Matheney, MD

1:30 PM–1:39 PM

#### What Do I Do When AVN Occurs

Perry L. Schoenecker, MD

1:40 PM–2:15 PM

#### Discussion/Case-based Problem Solving

Simon P. Kelley, FRCS; Colin F. Moseley, MD; Travis Matheney, MD; Perry L. Schoenecker, MD

2:15 PM–2:30 PM

BREAK

### PERIOD 2

2:30 PM–3:45 PM

#### SCFE

**Moderator:** Ira Zaltz, MD

2:30 PM–2:39 PM

#### When Do I Pin a Hip In-Situ?

Wudbhav N. Sankar, MD

2:40 PM–2:49 PM

#### Closed Reduction of Unstable SCFE: Can it be Done Safely?

Tim Schrader, MD

2:50 PM–2:59 PM

#### How Do I Manage Symptomatic FAI following In-Situ Pinning?

Daniel J. Sucato, MD, MS

3:00 PM–3:09 PM

#### Discussion/Cases

Wudbhav N. Sankar, MD; Tim Schrader, MD; Daniel J. Sucato, MD, MS

#### Hip Fractures

3:10 PM–3:19 PM

#### How Do I Approach a Hip Fracture in the Era of Locking Plates?

Scott B. Rosenfeld, MD

3:20 PM–3:29 PM

#### What Do I Do if Fixation Fails?

Fergal Monsell, MD, FRCS

3:30 PM–3:45 PM

#### Discussion/Cases

Scott B. Rosenfeld, MD, Fergal Monsell, MD, Ira Zaltz, MD, Pablo Castaneda, MD

3:45 PM–4:00 PM

BREAK

### PERIOD 3

4:00 PM–5:15 PM

#### Free Papers

**Moderators:** Pablo Castaneda, MD; Ira Zaltz, MD

4:00 PM–4:04 PM

1

#### Risk Factors for Failed Pavlik Harness Treatment in Developmental Hip Dysplasia

Jill E. Larson, MD; Brian Weatherford, MD; Brittany Patrick, MPH; Joseph A. Janicki, MD

4:05 PM–4:09 PM

2

#### Acetabular Retroversion after Salter Innominate Osteotomy in the Patients with Developmental Dysplasia of the Hip

Daisuke Kobayashi, MD; Shinichi Satsuma, MD; Maki Kinugasa, MD

4:10 PM–4:14 PM

3

#### How Much Acetabular Coverage is Too Much? A Study of Acetabular Overcoverage using Wiberg CE Angles

Raghav Badrinath, BS; Daniel R. Cooperman, MD

4:15 PM–4:19 PM

4

#### How does Ultrasound Influence Paediatric Orthopaedic Surgeons in Making the Diagnosis of Developmental Dysplasia of the Hip and in Making Treatment Decisions?

Elizabeth Ashby, FRCS; Andreas Roposch, MD

4:20 PM–4:32 PM

DISCUSSION

4:33 PM–4:37 PM

5

#### A Concomitant Arthrotomy does Not Improve Outcome for Adolescents with Hip Dysplasia Undergoing a Periacetabular Osteotomy

Daniel J. Sucato, MD, MS; Andriana De La Rocha, MD; John Clohisy, MD; Ernest L. Sink, MD; Ira Zaltz, MD; Young-Jo Kim, MD

4:38 PM–4:42 PM

6

#### Early Clinical and Radiographic Outcomes of Combined Hip Arthroplasty and Periacetabular Osteotomy

James Ross, MD; Angela D. Keith, MS; Gail Pashos; Stephen T. Duncan, MD; Perry L. Schoenecker, MD; John C. Clohisy, MD

4:43 PM–4:47 PM

7

#### Commonly Used Adult Outcome Scores do Not Accurately Assess Pediatric Patients Undergoing Hip Surgery

Travis Matheney, MD; Ira Zaltz, MD; Young-Jo Kim, MD, PhD; John Clohisy, MD; David Zurakowski, PhD; Michael Millis, MD; The ANCHOR Study Group

4:48 PM–4:57 PM

DISCUSSION

|                       |                                                                                                                                                                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4:58 PM–5:02 PM<br>8  | <b>Prognostics for Femoral Head Deformity in the Early Stages of Legg-Calve-Perthes Disease: MR Diffusion and Perfusion Indices</b><br><i>Won Joon Yoo, MD; In Ho Choi, MD; Tae-Joon Cho, MD; Eun Seok Choi, MD; Chin Youb Chung, MD; Moon Seok Park, MD; Jung-Eun Cheon, MD</i> |
| 5:03 PM–5:07 PM<br>9  | <b>Open Anatomic Reduction of SCFE: Risks and Benefits in Adopting New Treatment Methods</b><br><i>Christopher D. Souder, MD; James D Bomar, MPH; Dennis R. Wenger, MD</i>                                                                                                       |
| 5:08 PM–5:12 PM<br>10 | <b>Treatment of Unstable SCFE via the Modified Dunn Procedure: A Single Surgeon Experience</b><br><i>Freddie D. Persinger, MD; Walter P. Samora, MD; Kevin E. Klingele, MD</i>                                                                                                   |
| 5:13 PM–5:22 PM       | DISCUSSION                                                                                                                                                                                                                                                                       |

## SPINE SUBSPECIALTY DAY

1:00 PM–5:15 PM

**Co-Chairs:** Suken A. Shah, MD and Firoz Miyanji, MD

### PERIOD 1

1:00 PM–2:15 PM

**Moderators:** Firoz Miyanji, MD; Suken A. Shah, MD

#### DEBATES:

##### a. Early Onset Scoliosis – Timing of Surgical Intervention

1:03 PM–1:10 PM **“Growth modulation at early stage is best”**  
*Robert M. Campbell, MD*

1:11 PM–1:18 PM **“Definitive fusion at late stage is best”**  
*Peter O. Newton, MD*

##### b. AIS – Lenke 1C Curves

1:19 PM–1:26 PM **“Selective fusion remains treatment of choice”**  
*Lawrence G. Lenke, MD*

1:27 PM–1:34 PM **“Non-selective fusion provides better outcomes”**  
*B. Stephens Richards, MD*

##### c. The Ponte Osteotomy...

1:35 PM–1:42 PM **“...is over-rated in AIS surgery”**  
*Burt Yaszay, MD*

1:43 PM–1:50 PM **“...should be routine practice in AIS surgery”**  
*Harry L.. Shufflebarger, MD*

1:51 PM–2:15 PM **Case Presentations / Panel Discussion - Panel:** *Robert M. Campbell, MD; Peter O. Newton, MD; Lawrence G. Lenke, MD; B. Stephens Richards, MD; Burt Yaszay, MD; Harry L.. Shufflebarger, MD*

2:15 PM–2:30 PM BREAK

### PERIOD 2

2:30 PM–4:00PM

#### Free Papers

**Moderators:** Patrick J. Cahill, MD; Paul D. Sponseller, MD;

2:30 PM–2:34 PM  
6

**Spinal Cord Monitoring Data in Pediatric Spine Deformity Patients with Spinal Cord Pathology**

*Alexander W. Aleem, MD; Earl Thuet; Anne Padberg; Scott J. Luhmann, MD*

2:35 PM–2:39 PM  
2

**SHILLA Growth Guidance Graduates**

*Kwan J. Park, MD; Frances L. McCullough, MNSc; Richard E. McCarthy, MD*

2:40 PM–2:44 PM  
3

**Results of Serial Casting in Idiopathic and Non-idiopathic Cases of Early Onset Scoliosis**

*Pooya Hosseinzadeh; Vishwas R. Talwalkar, MD; Joshua Philbrick; Ryan D. Muchow, MD; Henry J. Iwinski, MD; Janet L. Walker, MD; Todd A. Milbrandt, MD, MS*

2:45 PM–2:52 PM

DISCUSSION

2:53 PM–2:57 PM  
4

**Predictive Validity of the Classification for Early Onset Scoliosis (C-EOS): Examining the Timing, Rate, and Severity of Post-operative Complications**

*Michael G. Vitale, MD, MPH, Hiroko Matsumoto, MA; The Chest Wall and Spine Deformity Study Group; The Growing Spine Study Group; Howard Y. Park, BA; Daren McCalla, BS; Evan P. Trupia BS; Hasani W. Swindell, BS; David P. Royce, MD; John (Jack) M. Flynn, MD*

2:58 PM–3:02 PM  
5

**Surgeon Experience Does Not Reduce Complications Associated with VEPTR surgery in Early Onset Scoliosis**  
*John T. Smith, MD*

3:03 PM–3:07 PM  
1

**Magnetically Controlled Growing Rods for Early Onset Scoliosis: Preliminary Results**  
*Karsten Ridderbusch, MD; Martin Rupprecht, MD; Philip Kunkel, MD; Ralf Stuecker, MD*

3:08 PM–3:12 PM  
7

**Complication Rates following Bone Morphogenetic Protein Use in Children: A Multi-center Study**

*Amy Pohlman, BS; James J. McCarthy, MD; Ryan Goodwin, MD; Joel Kolmodin, MD; Sumeet Garg, MD; Wudbhav N. Sankar, MD; Corinna Franklin, MD*

3:13 PM–3:20 PM

DISCUSSION

3:21 PM–3:25 PM  
8

**Internal and External Perceptions of Appearance in Adolescent Idiopathic Scoliosis (AIS)**

*Sarah Burr, MSN, BSN, APRN, ACCNS-P; Valoria Thomas, MSN, BSN, ApN-BC; Julia Leamon, MSN, BSN, RN; Sridhar Pinnamaneni; Richard Schwend, MD*

3:26 PM–3:30 PM  
9**Smoke, Mirror and 3D Analysis – The Truth About the “Hypokyphosing Effect of Pedicle Screws” in AIS****Peter O. Newton, MD;***Takahito Fujimori, MD; Josh Doan, MEng;**Frederick G. Reighard, MPH;**Daiana A. Glaser, PhD;**Amirhossein Misaghi, MD*3:31 PM–3:35 PM  
10**10 Early Complications in the First Year following Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis***F. Patterson Owings, MD;**David E. Lazarus, MD; Robert J. Owen, BS;**Benjamin J. Geddes, BS; Phillip Mitchell, MD;***Robert W. Bruce, Jr, MD;***Nicholas Fletcher, MD*

3:36 PM–3:43 PM

DISCUSSION

3:45 PM–4:00 PM

BREAK

**PERIOD 3**

4:00 PM–5:00 PM

**Moderators:** *Firoz Miyanji, MD; Suken A. Shah, MD***Evidence Based Approach in Pediatric Deformity:****a. Studies that have Changed my Practice (top 3 papers, past 10 years):**

4:00 PM–4:07 PM

**Surgical Management of AIS***Muharrem Yazici, MD*

4:08 PM–4:15 PM

**Non-operative Treatment of AIS***Charles E. Johnston II, MD*

4:16 PM–4:23 PM

**Management of Early Onset Scoliosis***James O. Sanders, MD*

4:24 PM–4:31 PM

**Management of Spondylolisthesis***Kit M. Song, MD*

4:32 PM–4:42 PM

DISCUSSION

**Pediatric Cervical Spine:**

4:43 PM–4:50 PM

**a. “Atlanto-axial Rotatory Instability – Management Strategies”***Haemish A. Crawford, MD*

4:51 PM–4:58 PM

**b. “Pediatric Cervical Trauma – Treatment Algorithm”***William C. Warner Jr, MD*

4:58 PM–5:15 PM

**Case Presentations / Panel Discussion****Panel:** *Haemish A. Crawford, MD;**William C. Warner Jr, MD;**William G. Mackenzie, MD***SPORTS SUBSPECIALTY DAY****An Interactive Case Based Approach to Pediatric Sports Dilemmas**

1:00 PM–5:15 PM

**Co-Chairs:** *Jennifer M. Weiss, MD and John D. Polousky, MD***PERIOD 1**

1:00 PM–2:15 PM

**Moderator:** *Jennifer M. Weiss, MD***Panel:** *Mininder S. Kocher, MD; Eric J. Wall, MD;**Henry (Hank) G. Chambers, MD; Theodore J. Ganley, MD;**Kevin G. Shea, MD*

1:00 PM–1:02 PM

**Welcome***Jennifer M. Weiss, MD;**John D. Polousky, MD*

1:02 PM–1:22 PM

**ACL Reconstruction in the Young Female Athlete***Bert Mandelbaum, MD*

1:23 PM–1:31 PM

Q and A

1:32 PM–1:40 PM

**Ankle Instability: Which Patient Needs Surgical Stabilization?***Paul M. Saluan, MD*

1:41 PM–1:49 PM

**Os Trigonum: A Case of Symptomatic Os Trigonum, When to Excise and How***Michael T. Busch, MD*

1:50 PM–2:00 PM

**Ankle OCD Cases, from Stable to Unstable, Which Patient is the Surgical Candidate?***Roger M. Lyon, MD*

2:01 PM–2:10 PM

Q and A

2:15 PM–2:30 PM

BREAK

**PERIOD 2**

2:30 PM–3:45 PM

**Free Papers****Moderators:** *Jennifer M. Weiss, MD; John D. Polousky, MD*2:30 PM–2:34 PM  
1**The Pediatric International Knee Documentation Committee Subjective Knee Evaluation (Pedi-IKDC) Form: Normative Data***Susan Nelson, MD, MPH;**Adam Nasreddine, MA; Leslie A. Kalish, ScD;***Mininder S. Kocher, MD**2:35 PM–2:39 PM  
2**Gene Expression Differences in Young Male and Female Ruptured Anterior Cruciate Ligament Tissue***Jeffrey S. Johnson, MD; Susan Moen, MD;**Robin Jacquet, MS; Melanie A. Morscher, BS;**Christopher Klonk, MD; William J. Landis, PhD;***Kerwyn C. Jones, MD**2:40 PM–2:44 PM  
3**Meniscal Tears in Adolescents with Anterior Cruciate Ligament Rupture: Relation to Medical Insurance Type***Richard E. Bowen, MD; P. Wang, MD*

2:45 PM–2:49 PM  
4**Asymmetric Knee Kinematics and Kinetics after ACL Reconstruction in Adolescent Athletes****Matthew D. Milewski, MD;**  
Erin J. Garibay, MS;  
Nicholas Giampetruzzi, PT, MS;  
Danielle Suprenant, DPT;  
Jessica R. Woods, BSBE;  
Carl W. Nissen, MD; Sylvia Öunpuu, MSc

2:50 PM–3:02 PM

Q and A

3:03 PM–3:07 PM

5

 **OCD and ADHD: Is There a Connection?****Kevin M Dale, MD;** Andrew Livermore, MD;  
Susan Laham PAC; Tamara A. Scerpella, MD;  
Jeffery A. Cassidy, MD; Blaise A. Nemeth, MD;  
Kenneth J. Noonan, MD;  
**Matthew A. Halanski, MD**

3:08 PM–3:12 PM

6

**The Progression to Surgery in Osteochondritis Dissecans in Children****Jennifer M. Weiss, MD;** Hooman Nikizad;  
Kevin G. Shea, MD; John C. Jacobs, Jr;  
Judith Bebchuk; Rita Ishkhanian;  
Jeffrey I. Kessler, MD

3:13 PM–3:19 PM

7

**Stress Sonography of the Ulnar Collateral Ligament of the Elbow in Adolescent Baseball Pitchers****Alfred Atanda Jr, MD;** Lauren Averill, MD;  
Levon Nazarian, MD; Michael G. Ciccotti, MD

3:20 PM–3:24 PM

8

**Adolescent Multi-directional Shoulder Instability: Arthroscopic Treatment Outcomes****Michael T. Busch, MD;**  
Mackenzie Marie Herzog, BA;  
Drew E. Warnick, MD;  
Samuel C. Willimon, MD

3:25 PM–3:29 PM

9

**Trends in the Presentation, Management, and Outcomes of Little League Shoulder****Benton E. Heyworth, MD;** Daniel Martin, BS;  
Dennis Kramer, MD; Mininder S. Kocher, MD;  
Donald S. Bae, MD

3:31 PM–3:45 PM

Q and A

3:45 PM–4:00 PM

BREAK

**PERIOD 3**

4:00 PM–5:15 PM

**Moderator: John D. Polousky, MD**

4:15 PM–4:23 PM

**Throwing Elbow: Which Patient is Treated with Rest, Who Gets an MRI, and When is Surgery Necessary?**

Carl W. Nissen, MD

4:24 PM–4:32 PM

**Shoulder Instability: The Case of the Traumatic Dislocator, Who Gets an MRI, Who Gets Surgery?**

John D. Polousky, MD

4:33 PM–4:41 PM

**Shoulder Instability: The Case of the Atraumatic Subluxator / Dislocator, Is Surgery Ever Indicated?**

Cordelia W. Carter, MD

4:42 PM–5:00 PM

**Hip: Labral Tears: To Fix or Debride?**

Jaren Riley, MD

5:01 PM–5:09 PM

**Pelvis Avulsion Fractures: When is Surgery Indicated?**

Kerwyn C. Jones, MD

5:09 PM–5:15 PM

Q and A, Wrap-up

**HAND SUBSPECIALTY DAY**

1:00 PM–5:15 PM

**Co-Chairs: Donald S. Bae, MD and Roger Cornwall, MD****PERIOD 1**

1:00 PM–2:15 PM

**TRAUMA****Moderator: Roger Cornwall, MD**

1:00 PM–1:25 PM

**Elbow Cases****Topics: Malunions / Nonunions, Elbow Contracture, Cubitus Varus, MCL Injury****Faculty Panel: Andrea S. Bauer, MD;**  
Robert B. Carrigan, MD; Lisa Lattanza, MD

1:25 PM–1:35 PM

**Technique Presentation on Cubitus Varus Correction**

Joshua M. Abzug, MD

1:40 PM–2:05 PM

**Wrist & Hand Cases****Topics: Radial Growth Arrest, Carpal Instability, Finger Fracture Malunions****Faculty Panel: Nina R. Lightdale-Miric, MD;**  
Michael J. Garcia, MD;  
Christopher Stutz, MD

2:05 PM–2:15 PM

**Technique Presentation on Ulnar Shortening and TFCC Repair**

Apurva Shah, MD, MBA

2:15 PM–2:30 PM

BREAK

**PERIOD 2**

2:30 PM–3:45 PM

**CONGENITAL****Moderator: Donald S. Bae, MD**

2:30 PM–2:55 PM

**Elbow & Forearm Cases****Topics: Radioulnar Synostosis, Congenital Radial Head Dislocation, Madelung****Faculty Panel: Terry R. Light, MD;**  
Marybeth Ezaki, MD;  
Allan E. Peljovich, MD, MPH

2:55 PM–3:05 PM

**Technique Presentation on Madelung Correction**

Marybeth Ezaki, MD

3:05 PM–3:35 PM

**Hand Cases****Topics: Cleft Hand, Symbrachydactyly, Polysyndactyly****Faculty Panel: Terry R. Light, MD;**  
Peter M. Waters, MD; Scott Riley, MD

3:35 PM–3:45 PM

**Technique Presentation on Cleft Hand Reconstruction**

Peter M. Waters, MD

3:45 PM–4:00 PM

BREAK

**PERIOD 3**

4:00 PM–5:15 PM

**Free Papers****Moderators:** Donald S. Bae, MD; Roger Cornwall, MD

4:00 PM–4:04 PM

**1****Quantitative Assessment of Dynamic Control of Fingertip Forces after Pollicization****Nina Lightdale-Miric, MD;**

Nicole M. Mueske, MS; Jamie Berggren, OT;

Jennifer Loiselle, OT;

Francisco J. Valero-Cuevas, PhD;

Sudarshan Dayanidhi, PhD;

Tishya A. L. Wren, PhD

4:05 PM–4:09 PM

**2****Bilobed Flap for Radial Deficiency: A Safe and Effective Alternative for the Treatment of the Severely Affected Wrist****Carley Vuillermin, , FRACS;**

Lindley Wall, MD; Janith Mills, MPAS, PA-C;

Lesley Wheeler, BA; Marybeth Ezaki, MD;

Scott Oishi, MD

4:10 PM–4:14 PM

**3****Radial Polydactyly: The Need for Reoperation Based on a New Classification System**

Brian Evanson, MD; Pooya Hosseinzadeh, MD;

Ronald Burgess, MD; **Scott Riley, MD**

4:15 PM–4:24 PM

DISCUSSION

4:25 PM–4:29 PM

**4****Clavicle Fracture is Not Predictive of Need for Microsurgery in Brachial Plexus Birth Palsy**Holly B. Hale, MD; **Andrea S. Bauer, MD;**

Nina Lightdale-Miric, MD

4:30 PM–4:34 PM

**5****The Demographics and Epidemiology of Osteochondritis Dissecans of the Elbow in Children and Adolescents****Jeffrey I. Kessler, MD;** Hooman Nikizad;

Kevin G. Shea; John C. Jacobs, Jr;

Judith Bechuk; Jennifer M. Weiss

4:35 PM–4:39 PM

**6****The Distal Humerus Axial View to Assess Displacement of Medial Epicondyle Fractures****Christopher D. Souder, MD;**

Christine L. Farnsworth; Natalie McNeil;

Eric W. Edmonds, MD

4:40 PM–4:49 PM

DISCUSSION

4:50 PM–4:54 PM

**7****Use of Botulinum Toxin Type A in the Management of Neonatal Brachial Plexus Palsy****Charles T. Mehlman, DO, MPH;**

Emily J. Loudon, MPH;

Allison J. Allgier, OTR/L;

Linda J. Michaud, MD, PT

4:55 PM–4:59 PM

**8****Three Dimensional Magnetic Resonance Imaging of Glenohumeral Dysplasia in Neonatal Brachial Plexus Palsy**

Emily A. Eismann, MS; Tal Laor, MD;

**Roger Cornwall, MD**

5:00 PM–5:04 PM

**9****Supraspinatus Slide to Treat Abduction Contracture in Brachial Plexopathy****Sonia Chaudhry, MD;** Alison Anthony BScPT;

Sevan Hopyan, MD, PhD, FRCSC

5:05 PM–5:14 PM

DISCUSSION

**NEUROMUSCULAR / LOWER EXTREMITY SUBSPECIALTY DAY**

1:00 PM–5:00 PM

**Co-Chairs:** Michelle S. Caird, MD and Jon R. Davids, MD**PERIOD 1**

1:00 PM–2:15 PM

**Free Papers****Moderators:** Michelle S. Caird, MD; Jon R. Davids, MD

1:00 PM–1:04 PM

**1****The Importance of Active Follow-up in Growth Modulation Surgery****John W. Kemppainen, MD;**

Kenneth A. Hood, MD;

Joanna H. Roocroft, MA;

John A. Schlechter, MD; Eric W. Edmonds, MD

1:05 PM–1:09 PM

**2****Rectus Femoris Transfer Vs. Rectus Intramuscular Lengthening for the Treatment of Stiff Knee Gait in Children with Cerebral Palsy**

Matthew D. Ellington, MD;

Judi Linton, PT, MS; **Allison C. Scott, MD;**

Douglas Barnes, MD

1:10 PM–1:14 PM

**3****The Effectiveness of Posterior Knee Capsulotomies and Knee Extension Osteotomies in Children with Cerebral Palsy**

Daveda Taylor MSPT, DPT;

**Justin Connor, MD;** Chris Church, MPT;

Manasa Sridhar, BA; John Henley, PhD;

Tim Niiler, PhD; Freeman Miller, MD

1:15 PM–1:22 PM

DISCUSSION

1:23 PM–1:27 PM

**4****The Effect of GMFCS Level and Neck Shaft Angle on Acetabular Remodeling after a Varus Derotational Osteotomy in Children with Cerebral Palsy****Frank M. Chang, MD;** Julie Ma, BA;

Zhaoxing Pan, PhD; Eduardo N. Novais, MD

1:28 PM–1:32 PM

**5****The Outcome of Botulinum Toxin A (Botox®) Injections for Painful Dislocated Hips in Patients with GMFCS IV and V Cerebral Palsy****Henry (Hank) G. Chambers, MD;**

Daniel Figueiredo

1:33 PM–1:37 PM

**6****Hip Dysplasia in Charcot-Marie-Tooth Type1a: Evidence for Acquired Dysplasia****Marie Gdalevitch, MD;** Joshua Burns, MD;

Paul J. Gibbons, MD

1:38 PM–1:42 PM

**7****Anterior Tibialis Activity in Recurrent Clubfoot: Considerations for Supination Deformity****Kristan A. Pierz, MD;** Sylvia Ounpuu, MSc;

Matthew J. Solomito, MS;

Jessica R. Woods, BSBE

1:43 PM–1:50 PM

DISCUSSION

1:51 PM–1:55 PM

**8****Congenital Tibial Deficiency: A Thirty-seven-Year Experience at One Institution**John G. Birch, MD; **Rebecca E. Clinton, MD**

1:56 PM–2:00 PM  
9

**Staged Double-level Limb Lengthening:  
Novel Technique Resulting in Decreased  
Healing Index**

*Matthew D. Abbott, MD;  
Alexander M. Cherkashin, MD;  
Mikhail L. Samchukov, MD;  
John G. Birch, MD, FRCS(C)*

2:01 PM–2:05 PM  
10

**Obesity and Vitamin D Insufficiency in  
Idiopathic Genu Valgum**

*Pooya Hosseinzadeh, MD; Kevin Murr, MD;  
Todd Milbrandt, MS, MD;  
Vishwas R. Talwalkar, MD;  
Henry J. Iwinski, MD;  
Ryan Muchow, MD; Janet L. Walker, MD*

2:06 PM–2:13 PM

DISCUSSION

2:17 PM–2:30 PM

BREAK

**PERIOD 2**

2:30 PM–3:45 PM

**Moderators:** *Michelle S. Caird, MD; Jon R. Davids, MD*

**Lectures**

2:30 PM–2:45 PM

**Assessment and Management of  
Transverse Plane Gait Deviations in  
Children with CP**

*Jason Rhodes, MD*

2:50 PM–3:00 PM

**Use of Orthoses to Improve Gait in  
Children with CP**

*Jon R. Davids, MD*

3:05 PM–3:15 PM

**Neuromuscular Hip Dysplasia: Role of  
Acetabular Osteotomy**

*Robert M. Kay, MD*

**Master Techniques**

3:20 PM–3:30 PM

**Distal Femoral Extension Osteotomy with  
Patellar Tendon Advancement**

*Tom F. Novacheck, MD*

3:35 PM–3:45 PM

**Triple C Osteotomies**

*Scott J. Mubarak, MD*

3:45 PM–4:00 PM

BREAK

**PERIOD 3**

4:00 PM–5:15 PM

**Moderators:** *Michelle S. Caird, MD; Jon R. Davids, MD*

**Lectures**

4:00 PM–4:15 PM

**Duchenne Muscular Dystrophy: Change in  
Natural History and Implications for  
Orthopaedic Management**

*Benjamin A. Alman, MD*

4:20 PM–4:30 PM

**Guided Growth for the Treatment of  
Infantile Tibia Vara**

*Allison C. Scott, MD*

4:35 PM–4:45 PM

**Surgical Management for Mild Recurrence  
following Ponseti Management of TEV**

*Matthew A. Halanski, MD*

**Master Techniques**

4:50 PM–5:00 PM

**Intramedullary Fixation in Osteogenesis  
Imperfecta**

*Michelle S. Caird, MD*

5:05 PM–5:15 PM

**Correction of Rigid Cavus Foot Deformity  
Associated with Hereditary Sensory  
Motor Neuropathies**

*Vincent S. Mosca, MD*



# SOCIAL EVENT OFFERINGS

Hollywood, California

Due to low participation from past meetings and increased tour prices in Hollywood, POSNA will host a few tours on Thursday afternoon only. However, there are many exciting things to do and see in Hollywood and we invite you to explore the city!

Working with our local hosts, we will have a resource sheet available on other interesting things to do in LA. You may also visit <http://www.discoverlosangeles.com>.

## POSNA EVENTS

### THURSDAY, MAY 1

#### TENNIS TOURNAMENT

- Location:** Los Angeles Tennis Club  
5851 Clinton St, Los Angeles, CA  
(2.0 miles from the Loews Hotel)
- Registration fee:** \$65 per person
- Warm-up:** 1:00 PM
- Tournament:** 1:30 PM–4:00 PM  
Round Robin format
- Club to provide:** Tennis balls, small towels, Gatorade and bottled water

In 1920, the Los Angeles Tennis Club became the home courts for California's tennis greats. The Golden Age of Tennis and Hollywood converged on the club's stadium court known as the "Home of Champions" where legends Bill Tilden, Fred Perry, Jack Kramer, Rod Laver, Stan Smith, Pancho Gonzales, Arthur Ashe, Donald Budge, Billie Jean King, Jimmy Connors, John McEnroe and more were crowned champion of the Pacific Southwest Tournament. Today, the LATC and its 16 courts remain a vibrant center of tennis located in the heart of Hollywood.

The glamour of Hollywood convened around the stadium court during the Pacific Southwest, the world's first hard court major tennis championships, which attracted a constellation of screen legends. Clark Gable and Carole Lombard had a box at center court. Charlie Chaplin and William Powell had boxes too. Mickey Rooney and Bing Crosby were club members. Errol Flynn won a club championship. Ginger Rogers and Gary Cooper handed out trophies. Will Rogers, Myrna Loy and Bette Davis played for fun.

Register to be on teams with your friends and family—all levels of expertise are welcome!

**POSNA**  
2014 POSNA ANNUAL MEETING  
APRIL 30–MAY 3, 2014

#### GOLF TOURNAMENT

- Location:** Angeles National Golf Club  
9401 Foothill Blvd. Sunland, CA  
(approx. 18 miles from the Loews Hotel)
- Registration fee:** \$75.00 per person
- Group departs:** 12:30 PM—from hotel via motor coach
- Arrive golf club:** 1:15 PM–1:30 PM arrive at golf course, warm-up on range
- Tournament time:** 2:00 PM–7:00 PM
- Arrive hotel:** 7:30 PM
- Note:** Golf clubs must be checked-in with bellman at Loews by 8:00 AM on Thursday, May 1.
- Course dress code:** Proper golf attire with collared shirts and no denim. Shorts should be just above the knee or longer. Athletic shorts, sweat pants, tank tops and t-shirts are prohibited. Angeles National is a soft spike facility.
- Club to provide:** Boxed lunches and water bottles, electric golf cart equipped with touch screen, curbside bag drop service, 1 set of range balls per player.

Nestled at the base of the Angeles National Forest and the only Nicklaus Design golf course in Los Angeles County, Angeles National Golf Club sets the standard of excellence and beauty for all golf courses in Southern California.

Angeles National features an 18-hole, par 72 championship golf course with magnificent views, generous fairways and immaculate emerald greens. The course presents a challenge for golfers of all skill levels with four sets of tees accommodating both the professional and beginner golfer. The course was ranked by Travel + Leisure Golf magazine as one of the "Top 30 Best New Courses Worldwide" and "One of the Top Ten Best New Public/Resort courses in the US." At Angeles National Golf Club everyone will enjoy its breathtaking scenery, challenging design and outstanding customer service reflecting cherished rural seclusion minutes from the heart of downtown Los Angeles.

Our experienced Tour Directors will coordinate the loading of guests' clubs for transfer to the course. At the course, they can assist with any shoe or club rentals, pairing changes, practices and tee-offs. When all golfers have completed their game they are returned to their hotel by deluxe vehicle.

#### HIKE RUNYON CANYON

- Time:** 1:00 PM
- Location:** 1 mile from Loews Hotel
- Registration fee:** FREE
- Provided:** Bottled water and snack

Meet in the lobby on Thursday afternoon and join us for a free, guided tour up Runyon Canyon. There are a couple different paths you can choose to hike up the canyon with varying levels of difficulty. You'll find many LA locals out for leisurely walks with friends or out on runs with their dogs. Who knows—you may even spot a celebrity! Once you reach the top there is a beautiful view of all of Los Angeles as well as a close view of the famous Hollywood sign.

Be sure to dress casually and wear comfortable tennis/running shoes.

## FRIDAY, MAY 2

### POSNA CLOSING NIGHT EVENT

**Location:** The Annex (located at the Loews)  
**Time:** 7:00 PM – 12:00 AM

Hollywood is yours! Tonight you will encounter classic Hollywood glamour and be treated to a true VIP experience! Elegant lounge seating, your very own Step and Repeat, and live DJ will set the stage for you to dance the night away. Didn't bring your camera? No worries, a photo booth will be ready to capture your Hollywood mega-watt smile!

In Hollywood, everyone dresses to impress. This is your chance to dazzle and shine in glamorous Hollywood style. You can go vintage with feather boas, bow ties, top hats and faux fur wraps or make it modern with a stunning gown and your finest suit! Tonight will be a night to remember - with the Hollywood sign as your backdrop, celebrate and rub shoulders with the group's finest stars.

### OTHER EVENTS

The following tours are non-hosted tours.  
 Tickets are available for purchase directly with the tour company.

#### BIKES AND HIKES LA – HOLLYWOOD BIKE TOUR

**Website:** [www.bikesandhikesla.com/hollywood-bike-tour](http://www.bikesandhikesla.com/hollywood-bike-tour)  
**Price:** \$68.00 per person.  
**Departs:** DAILY 10:00 AM (Advance reservations required)  
**Departure location:** Hollywood Walk of Fame  
 Madame Tussauds  
 6933 Hollywood Blvd  
 Hollywood, CA 90028

As LA's first eco-friendly biking and hiking tour company, you'll find our carefully selected guides' love for LA infectious. Each is a touring professional with an expert knowledge of LA's every nook and cranny. Pedal past Tinseltown's most storied landmarks, from the iconic Capitol Records Building to Paramount Pictures' twin archways. Designed for cyclists of every level, this adventure takes you through Hancock Park (the original Beverly Hills) to the Original Farmers Market, bike through the Hollywood Forever Cemetery, CBS Studios, the Walk of Fame, Grauman's Chinese Theatre, and the Dolby Theater (home to the Oscars). Your tour ends at Madame Tussauds, where you'll bypass the line with complimentary Priority Access Admission.

This bike tour includes VIP complimentary admission to Madame Tussauds (\$26 VALUE) – Capitol Records Building – Melrose Ave. Shopping District – Hollywood Walk of Fame – Dolby Theatre – Grauman's Chinese Theatre – Nickelodeon Studios – Hollywood Forever Cemetery – Paramount Pictures Lot – CBS Television City – Larchmont Village – Estates of Hancock Park – The Grove – Original Farmers Market – La Brea Tar Pits – "Rocky" at LACMA – Jim Henson Studios, Pretty Woman's Hollywood Apt, and much more...

**Length:** 2.5 hours  
**Fitness level:** Easy, no hills.  
**Tour includes:** Expert Tour Guide, High End Hybrid Road Bike, Safety Helmet  
**What to bring:** Comfortable shirt and shorts/pants, jacket, windbreaker or sweatshirt, a bottle of water, closed-toed shoes & DON'T FORGET YOUR CAMERA!

*Program Subject to Change*

### STARLINE TOURS

**Location:** 6925 Hollywood Blvd. in the forecourt of the Famous Chinese Theater  
**Phone:** (323) 463-3333; (800) 959-3131  
**Open:** Daily 8:30 AM – 9:30 PM  
**Book online:** [www.starlinetours.com/los-angeles-tours.asp](http://www.starlinetours.com/los-angeles-tours.asp)

Starline Tours is Hollywood's #1 celebrity tour company which also offers the largest selection of sightseeing tours in Southern California. Our tours were featured on TV's Ellen and American Idol as well as The Muppet Movie and Iron Man 3. Our iconic "open-top" Movie Stars Homes Tour & TMZ Tour are a must do for Hollywood. The Hop-on Hop-off Double-Decker City Sightseeing Tour offers over 70 stops and has been proclaimed as "the best way to see LA." Also enjoy daily tours to Warner Bros. and Universal Studios or Disneyland. Save money and book a combo tour.

Tours include: Movie Stars' Homes Tour, TMZ Hollywood Tour, Madame Tussauds Hollywood, Grand City Tour of Los Angeles, and many more.

### UNIVERSAL STUDIOS HOLLYWOOD

**Location:** 100 Universal City Plaza  
 Universal City, CA 91608  
**Phone:** (800) UNIVERSAL

Get ready for the ultimate Hollywood experience! With thrilling theme park rides and shows, a real working movie studio and Los Angeles' best shops, restaurants and cinemas at CityWalk, Universal Studios Hollywood is a unique experience that's fun for the whole family.

Go behind the scenes and explore where Hollywood movies are made on the legendary Studio Tour.



REGISTER ONLINE TODAY AT [WWW.POSNA.ORG](http://WWW.POSNA.ORG).



**POSNA**  
2014 POSNA ANNUAL MEETING  
APRIL 30 – MAY 3, 2014

# REGISTRATION FORM

- **EARLY REGISTRATION DEADLINE:** March 5, 2014
- **PRE-REGISTRATION CLOSES** March 31, 2014. PLEASE REGISTER AT THE MEETING after this date.
- For prompt crediting of your registration please mail to POSNA, 6665 Eagle Way, Chicago, IL 60678-1066. Payment must be enclosed.
- The bank will not accept overnight or courier packages.
- Hotel reservations should be made directly with the hotel with the enclosed form.
- Registration includes: Course material, Wednesday Opening Ceremony and Reception, Friday Closing Reception, coffee breaks, and 3 continental breakfasts.
- Accompanying persons must be registered to attend these social events.
- Accompanying Person Registration includes Wednesday Reception, Friday Reception and 3 continental breakfasts.

**POSNA**  
2014 POSNA ANNUAL MEETING  
APRIL 30 – MAY 3, 2014

register online at [www.posna.org](http://www.posna.org).

|              |            |                           |         |
|--------------|------------|---------------------------|---------|
| NAME         | DEGREE(S)  | ACCOMPANYING PERSON(S):   |         |
| ADDRESS      |            | CHILDREN (NAMES AND AGES) |         |
| CITY         | STATE      | ZIP                       | COUNTRY |
| OFFICE PHONE | OFFICE FAX |                           |         |
| E-MAIL       |            |                           |         |

## Registration Fees

|                                                                 | USD   | Amount |
|-----------------------------------------------------------------|-------|--------|
| Member                                                          | \$675 | _____  |
| Non-Member                                                      | \$925 | _____  |
| *Resident/Fellow                                                | \$450 | _____  |
| RN/PA/Allied Health                                             | \$450 | _____  |
| Delegates from Reduced Rate Countries (view list of countries): |       |        |
| Low Income                                                      | \$375 | _____  |
| Low-Middle Income                                               | \$450 | _____  |
| Senior Member                                                   | \$375 | _____  |
| Accompanying Person                                             | \$325 | _____  |
| Children 6-12, per child                                        | \$10  | _____  |
| Children 13-17, per child                                       | \$100 | _____  |
| FRIDAY ONLY – Member                                            | \$250 | _____  |
| FRIDAY ONLY – Non-Member                                        | \$300 | _____  |
| FRIDAY ONLY – Resident/Fellow                                   | \$200 | _____  |
| FRIDAY ONLY – Allied Health                                     | \$200 | _____  |
| After March 5, 2014, Late Fee                                   | \$50  | _____  |
| On-Site registration additional fee                             | \$50  | _____  |

### TOTAL REGISTRATION FEES

### POSNA DIRECT Donation

\*If you are registering as a Resident/Fellow, Name and Phone Number of your Chief of Staff or Dept. Head is required here:

- ☐ Check if ADA (Americans with Disabilities Act) accommodation is desired. Please specify. \_\_\_\_\_
- ☐ Check if you have any dietary restrictions. Please specify. \_\_\_\_\_

**PAYMENT MUST BE ENCLOSED OR FORM WILL BE RETURNED: ONLY ONE METHOD OF PAYMENT IS ACCEPTABLE (PRE-COURSE IS A SEPARATE REGISTRATION FORM & FEE)**

- Checks payable to POSNA in U.S. Dollars only, drawn on U.S. Bank (registrant is responsible for all bank charges) Travelers Checks (must be signed)
- Master Card/Visa/American Express \_\_\_\_\_ Please put this amount on my credit card

## Optional Events (see program for times and description)

|                                                                                                                  | USD | Attendee                 | Guest                    |
|------------------------------------------------------------------------------------------------------------------|-----|--------------------------|--------------------------|
| <b>Wednesday Opening and Reception</b><br>(included in registration, please check if you are planning to attend) | N/C | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Thursday Afternoon Symposia</b>                                                                               |     |                          |                          |
| COUR                                                                                                             | N/C | <input type="checkbox"/> |                          |
| NP/PA                                                                                                            | N/C | <input type="checkbox"/> |                          |
| Young Members Forum                                                                                              | N/C | <input type="checkbox"/> |                          |
| <b>Friday Subspecialty Day</b>                                                                                   | USD | Attendee                 | Guest                    |
| Hip                                                                                                              | N/C | <input type="checkbox"/> |                          |
| Spine                                                                                                            | N/C | <input type="checkbox"/> |                          |
| Sports                                                                                                           | N/C | <input type="checkbox"/> |                          |
| Hand and Upper Extremity                                                                                         | N/C | <input type="checkbox"/> |                          |
| Neuromuscular and Lower Extremity                                                                                | N/C | <input type="checkbox"/> |                          |
| <b>Friday Closing Night Reception</b><br>(included in registration, please check if you are planning to attend)  | N/C | <input type="checkbox"/> | <input type="checkbox"/> |

**Note to POSNA Members: The member directory is available online at [www.posna.org](http://www.posna.org).**

If you are a POSNA Member, do you wish to receive a printed membership directory? ☐ Yes ☐ No

|                                         |          |           |           |
|-----------------------------------------|----------|-----------|-----------|
| CARD NUMBER (PLEASE CHECK FOR ACCURACY) | CCV CODE | EXP. DATE | SIGNATURE |
|-----------------------------------------|----------|-----------|-----------|

**REFUND POLICY:** Written notice of cancellation must be sent for refund. Full refund through March 5, 2014. 20% administrative fee after March 5, 2014. No refunds after April 28, 2014.

REGISTER ONLINE TODAY AT [WWW.POSNA.ORG](http://WWW.POSNA.ORG).

Mail MEETING registration form and payment only to:

POSNA

6665 Eagle Way

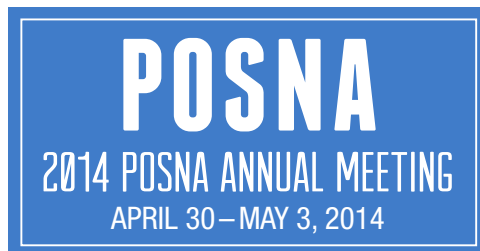
Chicago, IL 60678-1066

or

REGISTER ONLINE at [www.posna.org](http://www.posna.org)

A \$50 USD late fee will be applied to all registrations received after March 5, 2014.

Please register at the meeting after March 31, 2014.



# LOEWS ROOM RESERVATION FORM

**Group Name:** POSNA 2014 Annual Meeting  
**Dates:** April 28th–May 3rd, 2014  
**Reservation Deadline:** April 7th, 2014



Reservations will be accepted until 4/7/2014 or until the group block is full. After 4/7/2014, reservations may be accepted based on availability of group rooms. Group room rates will be honored three days prior and three days after the conference dates based on availability of group rooms at time of the request.

**COMPLETE THIS FORM AND MAIL OR FAX TO THE LOEWS HOTELS RESERVATION CENTER AT:**

**ATTN: Loews Hollywood POSNA Reservations**  
**424 Church Street, Suite 300 Nashville, TN 37219 | Fax: (615) 340-2001**

NAME \_\_\_\_\_  
(Name as it appears on credit card, if applicable)

STREET \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE ( ) \_\_\_\_\_

EMAIL \_\_\_\_\_

SHARING WITH \_\_\_\_\_

Superior rooms include one king-sized double beds.

# of Adults: \_\_\_\_\_ # of Children: \_\_\_\_\_

☐ King (Based on Availability)  
☐ Double/Double

**Rates per Night:**

|        |                               |
|--------|-------------------------------|
| Single | \$219.00 plus tax* = \$253.15 |
| Double | \$219.00 plus tax* = \$253.15 |
| Triple | \$219.00 plus tax* = \$253.15 |
| Quad   | \$219.00 plus tax* = \$253.15 |

(\*Tax is currently 14% plus 1.5% LA city tourism fee plus .20 cents per night CA state tourism fee and is subject to change)

**Billing Information:**

☐ Check or Money Order  
☐ MasterCard ☐ VISA ☐ Discover  
☐ American Express ☐ Diners Club ☐ JCB

**Arrival:** Date \_\_\_\_\_ Time \_\_\_\_\_  
(Check-in time is after 4:00 pm)

**Departure:** Date \_\_\_\_\_ Time \_\_\_\_\_  
(Check-out time is before 11:00am)

Credit Card #: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

**Hotel Confirmation Policy:**

A deposit equal to one night's room and tax OR a guarantee with a credit card is required to hold each reservation. This deposit may be made via check or money order. If in the event the reservation is a "no show" or cancellation is not received 72 hours prior to arrival, a charge equal to one night's room and tax will be made to the credit card on file.

I hereby authorize Loews Hollywood Hotel to debit the above-listed credit card for any cancellation or no show penalties.

Signature: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

**Book online at:** <https://resweb.passkey.com/go/POSNA2014>  
**Direct Phone Reservations** (855) 563-9749  
**International Phone Reservations** (615) 340-2000  
**Fax Reservations** (615) 340-2001

**Loews Hollywood Hotel**  
**1755 N. Highland Avenue**  
**Hollywood, CA 90028**  
**(323) 856-1200**  
**[www.loewshotels.com](http://www.loewshotels.com)**



Hotel Reservations must be received by April 7, 2014

POSNA makes no guarantee that rooms will be available until April 7, 2014

We strongly encourage attendees to make reservations early.

If you are calling directly to the Loews Hollywood Hotel to make your reservation,  
be sure to mention the POSNA meeting. Phone: (855) 563-9749.

Or Make your hotel reservations online:  
<https://resweb.passkey.com/go/POSNA2014>.

In order to avoid delay in processing your reservation,  
**DO NOT MAIL YOUR HOTEL RESERVATION FORM TO THE POSNA OFFICE.**

**POSNA**  
2014 POSNA ANNUAL MEETING  
APRIL 30—MAY 3, 2014

# HOLLYWOOD ROOSEVELT ROOM RESERVATION FORM

Dear Guest-

We are excited to welcome you to the Hollywood Roosevelt for the 2014 POSNA Annual Meeting! Please either complete this form or call our Reservations Department at (323) 466-7000 or (800) 950-7667 to book your guest room.



Reservations by attendees must be received on or before April 7, 2014. After April 7th, reservations will only be accepted based on availability and the group rate will not apply. Group rates will be offered based on availability three (3) calendar days pre and three (3) calendar days post the conference dates.

## Rates:

King Superior Room - \$231 plus 15.58% occupancy tax  
Double Superior Room- \$231 plus 15.58% occupancy tax

- ☐ ROOM & TAX ONLY  
☐ ROOM, TAX, & PARKING  
☐ OTHER (Please describe) \_\_\_\_\_

## Type of Credit Card:

☐ American Express ☐ Diners Club ☐ VISA ☐ MasterCard

**\*IMPORTANT!!!:** PLEASE FAX along with this signed authorization a LEGIBLE FRONT AND BACK COPY OF THE CREDIT CARD ALONG WITH A COPY OF the signatory's drivers License or other picture identification.

|                             |                 |
|-----------------------------|-----------------|
| Credit Card #               | Expiration Date |
| Printed Name of Cardholder  |                 |
| Signature                   |                 |
| Credit Card Billing Address |                 |

| Guest(s) Name | Arrival Date | Departure Date | Rate | Room Type |
|---------------|--------------|----------------|------|-----------|
|               |              |                |      |           |
|               |              |                |      |           |
|               |              |                |      |           |
|               |              |                |      |           |

\* All rooms are guaranteed to the credit card provided. There is a 24 Hour cancellation penalty of one night room and tax, should you change or cancel the above reservations after 24 hours prior to arrival. Check in is at 3:00 PM and check out is at 12:00 PM

**RETURN TO:** RESERVATIONS DEPARTMENT  
**Fax:** (323) 469-7006  
**Phone:** (323) 466-7000 ext 8000

**Hollywood Roosevelt Hotel**  
**7000 Hollywood Boulevard,**  
**Los Angeles, CA 90028**



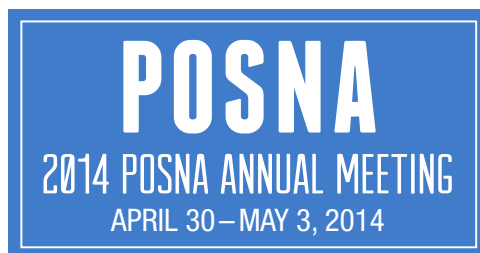
Hotel Reservations must be received by April 7, 2014

POSNA makes no guarantee that rooms will be available until April 7, 2014

We strongly encourage attendees to make reservations early.

If you are calling directly to the Hollywood Roosevelt Hotel to make your reservation, be sure to mention the POSNA meeting. Toll Free: (800) 950-7667

In order to avoid delay in processing your reservation,  
**DO NOT MAIL YOUR HOTEL RESERVATION FORM TO THE POSNA OFFICE.**



# HILTON GARDEN INN ROOM RESERVATION FORM

**Group Name:** POSNA 2014 Annual Meeting  
**Dates:** April 28th – May 3rd, 2014  
**Reservation Deadline:** April 7th, 2014



Reservations by attendees must be received on or before April 7, 2014. After April 7, 2014, reservations may be accepted based on a space available basis. Group room rates will be offered, based on availability, three (3) calendar days pre and three (3) calendar days post of the conference dates.

**COMPLETE THE FORM BELOW AND MAIL OR FAX TO THE HILTON GARDEN INN LA/HOLLYWOOD AT:**

Attn: HGI Sales Department – POSNA Reservations  
2005 N. Highland Ave, Hollywood, CA 90068 | Fax: (323) 876 – 3272

NAME \_\_\_\_\_  
(Name as it appears on credit card, if applicable)

STREET \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE ( ) \_\_\_\_\_

EMAIL \_\_\_\_\_

ADDITIONAL GUEST NAMES:

\_\_\_\_\_

\_\_\_\_\_

**Billing Information:**

☐ Check or Money Order

☐ MasterCard

☐ VISA

☐ Discover

☐ American Express

☐ Diners Club

☐ JCB

Credit Card #: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

**Hotel Confirmation Policy:**

A deposit equal to one night's room and tax or a guarantee with a valid credit card is required to hold each reservation. Authorization may be run on the credit card provided in order to guarantee validity. The deposit may be taken via the credit card on file, certified check or money order. If in the event the reservation is a not cancelled at least 72 hours prior to arrival or is a "no-show", the credit card on file will be charged one night's room and tax.

I hereby authorize the Hilton Garden Inn Los Angeles/Hollywood to debit the above listed credit card for any deposits, cancellations or no show penalties.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# of Adults: \_\_\_\_\_ # of Children: \_\_\_\_\_

Four (4) person maximum occupancy

☐ King (Based on Availability)

☐ Double/Double

**Rates per Night:**

\$189.00 Single Occupancy, plus 15.57% tax

\$199.00 Double Occupancy, plus 15.57% tax

\$209.00 Triple Occupancy, plus 15.57% tax

\$219.00 Quad Occupancy, plus 15.57% tax

(Please note: Tax is subject to change)

**Arrival:**

Date \_\_\_\_\_ Time \_\_\_\_\_

(Check-in time is 3:00 pm)

**Departure:**

Date \_\_\_\_\_ Time \_\_\_\_\_

(Check-out time is 12:00pm)

**Book online at:**

**Direct Phone Reservations**

**Fax Reservations**

<http://bit.ly/1ea91ul>

(323) 876 – 8600

(323) 876 – 3272

**HGI Los Angeles Hollywood**

**2005 N. Highland Ave**

**Hollywood, CA 90068**

**(323) 876 – 8600**

**[www.losangeleshollywood.hgi.com](http://www.losangeleshollywood.hgi.com)**



Hotel Reservations must be received by April 7, 2014

POSNA makes no guarantee that rooms will be available until April 7, 2014

We strongly encourage attendees to make reservations early.

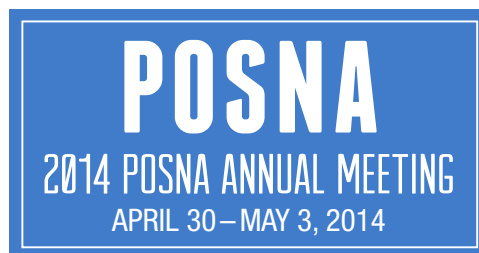
If you are calling directly to the Hilton Garden Inn to make your reservation,  
be sure to mention the POSNA meeting. Phone: (323) 876–8600.

Or make your hotel reservations online:

<http://bit.ly/1ea91ul>

In order to avoid delay in processing your reservation,

**DO NOT MAIL YOUR HOTEL RESERVATION FORM TO THE POSNA OFFICE.**



# MISSION

To assure the best possible care of children with musculoskeletal disorders by implementing the highest quality education of pediatric orthopaedists, by supporting evidence-based research, and by developing appropriate alliances with related organizations.

## POSNA

2014 POSNA ANNUAL MEETING

APRIL 30 – MAY 3, 2014

# ABOUT

## 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.



The Pediatric Orthopaedic Society  
of North America

6300 North River Road #727  
Rosemont, IL 60018 USA

Nonprofit Org.  
US Postage  
PAID  
Des Plaines, IL  
Permit No. 192

## PRELIMINARY PROGRAM



# POSNA

## 2014 POSNA ANNUAL MEETING

APRIL 30 – MAY 3, 2014

## REGISTER NOW

[WWW.POSNA.ORG](http://WWW.POSNA.ORG)

**Early Registration Deadline:**  
March 5, 2014

**Pre-Registration Deadline:**  
March 31, 2014

**Hotel Deadline:**  
April 7, 2014

