



**General Information**  
**Educational Objectives**

- Learn to medically manage high risk patients to minimize postoperative musculoskeletal infections
- Understand cutting edge technologies for diagnosing and treating musculoskeletal infections
- Gain a better understanding of treating musculoskeletal infections in orthopaedic trauma and pediatric orthopaedic patients

**Accreditation**

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

**Credit Hours**

The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of **7 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Program Committee Leadership**  
*Antonia F. Chen, MD, MBA and*  
*Sandra B. Nelson, MD*

8:00 am – 8:05 am **Welcome and Introduction**  
*Sandra Nelson, MD and*  
*Antonia F. Chen, MD, MBA*

8:05 am – 9:00 am **Symposium: Medical Management of the High Risk Patient**

*Susan Goodman, MD*  
*Barry Brause, MD*

9:01 am – 10:59 am **Best Papers of MSIS 26th Annual Open Scientific Meeting, August 2016**

9:01 am – 9:06 am **D-Dimer: A Serum Marker for Diagnosis of Periprosthetic Joint Infection**  
*Alisina Shabi, MD*

9:07 am – 9:13 am **The Economic Impact of Periprosthetic Infection in Total Hip Arthroplasty**  
*Jason Akindolire, MD, MSc*

9:14 am – 9:19 am **HbA1c Greater than 8% Significantly Increases Risk of PJI**  
*Majd Tarabichi, MD*

9:20 am – 9:25 am **Polymicrobial Infections in Total Hip Arthroplasty: Cure Rates and Number of Operations**  
*Daniel Cunningham*

9:26 am – 9:31 am **Automated Synovial Fluid Cell Counts are Often Aberrantly Elevated**  
*Carl Deirmengian, MD*

9:32 am – 9:41 am **Discussion**

9:42 am – 9:47 am **The Performance of Routine Tests for Diagnosing Periprosthetic Joint Infection**  
*Alisina Shabi, MD*

9:48 am – 9:53 am **Is A Universal Decolonization Protocol without Screening Before Total Joint Arthroplasty Cost Effective in Decreasing Surgical Site Infection Rates?**  
*Jeffrey B. Stambough, MD*

9:54 am – 9:59 am **The Synovial Fluid WBC Counts from Native Septic Arthritis: Not as High as You Think**  
*Carl Deirmengian, MD*

10:00 am – 10:05 am **The Utility of Leukocyte Esterase Test in the Diagnosis of Culture Negative PJI**  
*Majd Tarabichi, MD*

10:06 am – 10:11 am **An Evidence-Based Clinical Prediction Algorithm for the Musculoskeletal Infection Society (MSIS) Minor Criteria**  
*Joshua Bingham, MD*

10:12 am – 10:17 am **Incise Draping (Ioban) Is Protective Against Surgical Site Contamination during Hip Surgery: A Prospective, Randomized Trial**  
*Maryam Rezapoor, MS*

10:18 am – 10:27 am **Discussion**

10:28 am – 10:33 am **Effect of Vancomycin versus Combination Antibiotic Therapy on Spinal Implant Infection in an In Vivo Mouse Model**  
*Stephen Zoller, MD*

10:34 am – 10:39 am **Aqueous Fluids Increase Antimicrobial Release from Antibacterial Loaded Bone Cement**  
*Alex C. McLaren, MD*

10:40 am – 10:45 am **Cationic Amphipathic Peptides Are Able To Eliminate Bacterial Persisters in PJI Biofilm**  
*Kenneth Urish*

10:46 am – 10:51 am **Vitamin D Deficiency Increases Bioluminescent Bacterial Burden and Fluorescent Neutrophil Infiltration in an In Vivo Mouse Model of Periprosthetic Joint Infection**  
*Stephen Zoller, MD*

10:52 am – 10:59 am **Discussion**

11:00 am – 12:00 pm **Symposium: Biophysical Pathogen Identification – A New Paradigm in Diagnosis of Musculoskeletal Infections**

*Mark Hayes, MD*

12:00 pm – 12:45 pm **Lunch On Own**

## The Evolving Care of Musculoskeletal Infection in Children

### Combined Symposium with LLRS and POSNA

Room: 30C

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12:45 pm – 1:00 pm	<b>Welcome and Introduction</b> <i>James J. McCarthy, MD and Vishwas R. Talwalkar, MD (POSNA)</i>  <i>Karl E. Rathjen, MD, Kevin Louie, MD, and J. Spence Reid, MD (LLRS)</i>  <i>Sandra Nelson, MD and Antonia F. Chen, MD, MBA (MSIS)</i>
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### Infection Part I: Basic Science – What is New and How it Affects an Old Disease

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	<b>Moderators:</b> Jonathan Schoenecker, MD and Antonia F. Chen, MD
1:00 pm – 1:15 pm	<b>How Bacteria Hide: How Treating an Infection with Implants affects your Treatment Plan including the Protective Effects of a Biofilm</b> <i>Alex C. McLaren, MD</i>
1:15 pm – 1:30 pm	<b>Musculoskeletal Infections – A Multidisciplinary Team Approach</b> <i>Sandra B. Nelson, MD</i>
1:30 pm – 1:45 pm	<b>Changing Trends in Infections – Antibiotic Resistance and Patient Specific Factors</b> <i>Aaron J. Tande, MD</i>
1:45 pm – 2:00 pm	Discussion
2:00 pm – 2:20 pm	Refreshment Break

## Infection Part II: Real World Problems – Real Solutions

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	<b>Moderator:</b> L. Reid Nichols, MD
2:20 pm – 2:30 pm	<b>Open Tibia – Open Physis: Where Are We Now?</b> <i>Craig A. Robbins, MD</i>
2:30 pm – 2:40 pm	<b>What is Old is New Again: The Use of External Fixation for the Treatment of Chronic Infection</b> <i>Mark T. Dahl, MD</i>
2:40 pm – 2:50 pm	<b>Preventing Infections in Children Undergoing Limb Deformity Correction: From Pins Sites to IM Rods after Lengthening</b> <i>Christopher Iobst, MD</i>
2:50 pm – 3:10 pm	Discussion
3:10 pm – 3:20 pm	<b>SSI: How to Measure and Implement an Effective Program</b> <i>Tony Scaduto, MD</i>
3:20 pm – 3:30 pm	<b>There is a Child with a Swollen, Painful Joint: Aspiration, MRI – What is the Standard of Care?</b> <i>Rick Bowen, MD</i>
3:30 pm – 3:40 pm	<b>Post Op Spine Infection: Treatment Protocol and Results</b> <i>Peter Sturm, MD</i>
3:40 pm – 3:55 pm	Discussion
3:55 pm – 4:00 pm	Conclusion, Adjourn