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

9:00 am – 9:05 am
D–Dimer: A Serum Marker for Diagnosis of Periprosthetic Joint Infection
Alisina Shabi, MD

9:06 am – 9:10 am
The Economic Impact of Periprosthetic Infection in Total Hip Arthroplasty
Jason Akindolire, MD, MSc

9:11 am – 9:15 am
HbA1c Greater than 8% Significantly Increases Risk of PJI
Majd Tarabichi, MD

9:16 am – 9:20 am
Polymicrobial Infections in Total Hip Arthroplasty: Cure Rates and Number of Operations
Daniel Cunningham

9:21 am – 9:25 am
Automated Synovial Fluid Cell Counts are Often Aberrantly Elevated
Carl Deirmengian, MD

9:26 am – 9:31 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 – 10:22 am
Discussion

10:23 am – 10:27 am
Effect of Vancomycin versus Combination Antibiotic Therapy on Spinal Implant Infection in an In Vivo Mouse Model
Stephen Zoller, MD

10:28 am – 10:33 am
Aqueous Fluids Increase Antimicrobial Release from Antibacterial Loaded Bone Cement
Alex C. McLaren, MD

10:34 am – 10:39 am
Cationic Amphipathic Peptides Are Able To Eliminate Bacterial Persisters in PJI Biofilm
Kenneth Urish

10:40 am – 10:45 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

10:46 am – 10:50 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

12:45 pm – 1:00 pm  Welcome and Introduction
   James J. McCarthy, MD and
   Vishwas R. Talwalkar, MD (POSNA)
   Karl E. Rathjen, MD, Kevin Louie, MD,
   and J. Spence Reid, MD (LLRS)
   Sandra Nelson, MD and Antonia F. Chen,
   MD, MBA (MSIS)

Infection Part I: Basic Science – What is New and How it Affects an Old Disease

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>1:00 pm – 1:15 pm</td>
<td>How Bacteria Hide: How Treating an Infection with Implants affects your Treatment Plan including the Protective Effects of a Biofilm</td>
<td>Alex C. McLaren, MD</td>
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<tr>
<td>1:15 pm – 1:30 pm</td>
<td>Musculoskeletal Infections – A Multidisciplinary Team Approach</td>
<td>Sandra B. Nelson, MD</td>
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<td>1:30 pm – 1:45 pm</td>
<td>Changing Trends in Infections – Antibiotic Resistance and Patient Specific Factors</td>
<td>Aaron J. Tande, MD</td>
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<td>1:45 pm – 2:00 pm</td>
<td>Discussion</td>
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<td>2:00 pm – 2:20 pm</td>
<td>Refreshment Break</td>
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Infection Part II: Real World Problems – Real Solutions

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