

Agenda

**Friday – July 31, 2015**

- 7:30 a.m. Registration Open
- 7:30–8:00 a.m. Continental Breakfast
- 8:00–8:10 a.m. Welcome, Announcements, Disclosure  
Presentation of George Cierny III, MD Memorial Award  
*Steven K. Schmitt, MD*
- 8:11–9:32 a.m. **Clinical Science Presentations Session 1**  
Moderator: Camelia Marculescu, MD
- 8:11–8:17 a.m. Treatment Challenges of Iliacus Muscle Abscesses in Infected Prosthetic Hip Joints: A Review of Five Cases – *Joshua Lawrenz, MD*
- 8:18–8:24 a.m. Alpha–Defensin Accuracy to Diagnose Periprosthetic Joint Infection – Best Available Test? – *Salvatore J. Frangiamore, MD, MS*
- 8:25–8:31 a.m. Prosthesis Retention is Associated with Poor Outcomes in Patients with Pseudomonas Prosthetic Joint Infections – *Elie F. Berbari, MD*
- 8:32–8:38 a.m. Risk Factors for Staphylococcus aureus Nasal Colonization in Joint Replacement Patients – *Amanda Walsh, MD*
- 8:39–8:45 a.m. Nasal Decolonization of S. aureus reduces the Odds of Surgical Site Infections in TJA Patients: A Meta–analysis – *Bryce A. Van Doren, MPA, MPH*
- 8:46–8:56 a.m. Discussion
- 8:57–9:03 a.m. The Alpha–Defensin Test for PJI is not affected by Prior Antibiotic Administration – *Carl Deirmengian, MD*
- 9:04–9:10 a.m. Commercially Pure Dissolvable Antibiotic Beads in the Treatment of Periprosthetic Joint Infection and Revision Arthroplasty  
*Edward J. McPherson, MD*
- 9:11–9:17 a.m. Managing Large Bone Defects with Custom Spacers in Patients with Musculoskeletal Infections – *Steven Rivero, MD*
- 9:18–9:24 a.m. Development and Evaluation of a Preoperative Risk Calculator for Periprosthetic Joint Infection – *Timothy L. Tan, MD*
- 9:25–9:32 a.m. Discussion
- 9:33–9:57 a.m. Refreshment Break  
**Visit Corporate Partners, View Electronic Posters**

- 9:58–10:42 a.m.     **Clinical Science Presentations Session 2**  
Moderator: Douglas R. Osmon, MD
- 9:58–10:04 a.m.     The CRP Test may not Detect PJIs caused by Less–virulent Organisms  
*Carl Deirmengian, MD*
- 10:05–10:11 a.m.    Surgical Site Infection Rates after Ankle Arthrodesis – A Large Database  
Analysis – *Christopher D. Murawski*
- 10:12–10:18 a.m.    Administration of Vancomycin to Patients with a Reported Penicillin Allergy  
during Total Joint Arthroplasty Results in a Higher Rate of Infection with Resistant  
Organisms – *Timothy L. Tan, MD*
- 10:19–10:25 a.m.    Total Joint Arthroplasty in Septic Arthritis: What Influences Outcomes?  
*Michael M. Kheir, BS*
- 10:26–10:32 a.m.    Organism Persistence in Failed Prosthetic Retention for Periprosthetic Joint  
Infection – *Antonia F. Chen, MD*
- 10:33–10:42 a.m.    Discussion
- 10:43–11:43 a.m.     **Basic Science Presentations Session 1**  
Moderator: Alex C. McLaren, MD
- 10:43–10:49 a.m.    Antibiotic–loaded Phosphatidylcholine inhibits Staphylococcal Bone  
Infection – *Jessica Amber Jennings, PhD*
- 10:50–10:56 a.m.    Use of Host Synovial Antibody Levels against Staphylococcus aureus  
Antigen SACOLo688 allows Detection of Periprosthetic Joint Infection  
*William Arnold, MD*
- 10:57–11:03 a.m.    Synovial Fluid Cytokine Levels: Predicting Periprosthetic Joint Infections and  
Ruling out Infections in Treated Joints – *Carlos Higuera–Rueda, MD*
- 11:04–11:10 p.m.    Are Permanent Braided Sutures a Nidus for Biofilm–associated Periprosthetic  
Joint Infection? – *Matthew C. Swearingen, PhD*
- 11:11–11:17 a.m.    Adjunctive Cathodic Electrical Stimulation Eradicates MRSA Periprosthetic Joint  
Infections – *Mark Ehrensberger, PhD*
- 11:18–11:24 a.m.    Antimicrobial Susceptibility of Biofilm does not Decrease Over Time in Vitro  
*Damien A. Richardson, MD, MPH*
- 11:25–11:31 a.m.    In Hospital Mortality in Patients with Periprosthetic Joint Infection  
*Antonia F. Chen, MD*
- 11:32–11:43 a.m.    Discussion

11:44 a.m.–1:00 p.m. **Symposium: Challenges in the Diagnosis and Management of Orthopedic Infections: Focus on the Spine**

Moderator: *Maja Babic, MD*

**IDSA Vertebral Osteomyelitis Guidelines**

*Elie Berbari, MD Rochester, MN*

**Case Studies: Multidisciplinary Approach to Diagnosis and Management of Spine Infections**

*Maja Babic, MD Cleveland, OH*

*Claus Simpfendorfer, MD Cleveland, OH*

1:00–2:00 p.m. Luncheon

1:40–2:05 p.m. **Self-guided tour of Global Center for Health Innovation**

2:05–2:44 p.m. **Basic Science Presentations Session 2**

Moderator: *Carlos Higuera-Rueda, MD*

2:05–2:11 p.m. Intraoperative Frozen Section Histology: Matched for Musculoskeletal Infection Society Criteria – *Carlos Higuera-Rueda, MD*

2:12–2:18 p.m. Tobramycin Release from Surgeon-made Intermediate-Dose ALBC Spacers  
*Oren Goltzer, MD*

2:19–2:25 p.m. The ACS-NSQIP Risk Calculator is a Poor Predictor of Acute Periprosthetic Joint Infection – *Elie Ghanem, MD*

2:26–2:32 p.m. The Human Neutrophil Elastase Immunoassay: A Proxy for the Synovial Fluid Neutrophil Count – *Carl Deirmengian, MD*

2:33–2:44 p.m. Discussion

2:45–3:30 p.m. **Special Session: “The Human Microbiome and Musculoskeletal Infections.”(co-convenor: *Surgical Infection Society*)**

Moderator: *Antonia F. Chen, MD*

*John Alverdy, MD Chicago, IL*

3:31–3:50 p.m. Refreshment Break

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3:51–5:05 p.m. **Basic Science Presentations Session 2** *continued*

3:51–3:57 p.m. Minimum Biofilm Eradication Concentration Decreases during Multi-Day Antimicrobial Exposure in Vitro – *Derek J. Overstreet, PhD*

3:58–4:04 p.m. Co-Release of Tobramycin and Vancomycin from In Situ Forming Hydrogel in Vitro – *Derek J. Overstreet, PhD*

4:05–4:11 p.m. Factors Influencing Operating Room Air Quality: A Prospective Observational and Simulated Study – *Maryam R Rezapoor, MS*

- 4:12–4:18 p.m. A Multicenter Study on Variability of Culture Results  
*Joshua S. Bingham*
- 4:19–4:26 p.m. Discussion
- 4:27–4:33 p.m. Antibacterial Powder Volume Varies By Brand and Drug  
*Justin M. Roberts, MD*
- 4:34–4:40 p.m. Propionibacterium Acnes: Biofilm Formation and Prevention in Prosthetic Infections – *Professor Paul Stoodley, PhD*
- 4:41–4:47 p.m. The Fate of Revision TKA with Preoperative Abnormalities in either Sedimentation Rate or C–Reactive Protein – *John M Hardcastle, MD*
- 4:48–4:54 p.m. Short Term Release Kinetics from Antibiotic Loaded Bone Cement Beads is Relatively Independent of Concentration – *Professor Paul Stoodley, PhD*
- 4:55–5:05 p.m. Discussion
- 5:06–5:15 p.m. Announcements, Adjourn
- 5:15–5:45 p.m. **Self–guided tour of Global Center for Health Innovation**
- 7:00–10:00 p.m. **President’s Reception  
Rock and Roll Hall of Fame and Museum**  
Introduction of the Inaugural Class of MSIS Hall of Fame  
Commemorative 25<sup>th</sup> Anniversary Video

**Saturday – August 1, 2015**

- 7:30 a.m. Registration Open
- 7:30–8:00 a.m. Member Breakfast  
**Visit Corporate Partners, View Electronic Poster**
- 8:00–8:30 a.m. Nonmember Breakfast  
**Visit Corporate Partners, View Electronic Poster**
- 8:00–8:30 a.m. Business Meeting  
*MSIS Members Only*
- 8:30–8:35 a.m. Welcome, Announcements, Disclosure – *Steven K. Schmitt, MD*
- 8:36–9:35 a.m. **Presidential Symposium  
MSIS at 25 Years: Founding Principles and the Path Forward**  
Moderator: Steven K. Schmitt, MD  
*J. David Blaha, MD*  
*Jason H. Calhoun, MD*  
*John L. Esterhai, Jr., MD*  
*Michael J. Patzakis, MD*

- 9:36–10:38 a.m. **Clinical Science Presentations Session 3**  
Moderator: Sandra B. Nelson, MD
- 9:36–9:42 a.m. Positive Cultures during Reimplantation Increase the Risk of Subsequent Failure in Two–Stage Exchange Arthroplasty – *Timothy L. Tan MD*
- 9:43–9:49 a.m. Culture Negative Periprosthetic Joint Infection: An Update on What to Expect – *Timothy L. Tan, MD*
- 9:50–9:56 a.m. Patients with Failed Prior Two–Stage Exchange have Poor Outcomes following further Surgical Intervention – *Michael M. Kheir, BS*
- 9:57–10:03 a.m. Factors Associated with Adverse Long–Term Clinical Outcomes in Patients with Post–Traumatic Osteomyelitis of Long Bones – *Vivek Chadayammuri, BS*
- 10:04–10:10 a.m. Factors Contributing to Failed Two–Stage Reimplantation Procedures of Infected TKA – *Gwo–Chin Lee, MD*
- 10:11–10:17 a.m. Reliability of Frozen Section Histology for Diagnosis of Persistent Infection during the Second Stage of Septic Revision Arthroplasty – *Carlos Higuera–Rueda, MD*
- 10:18–10:24 a.m. Pre–admission Cutaneous Chlorhexidine Preparation Reduces Surgical Site Infections in Total Knee Arthroplasty – *Bhaveen H. Kapadia, MD*
- 10:25–10:38 a.m. Discussion
- 10:39–11:01 a.m. Refreshment Break  
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- 11:02–12:14 p.m. **Clinical Science Presentations Session 4**  
Moderator: Bryan D. Springer, MD
- 11:02–11:08 a.m. The Effects of Chlorhexidine Gluconate on Surgical Site Infections following Total Hip Arthroplasty – *Bhaveen H. Kapadia, MD*
- 11:09–11:13 a.m. Irrigation and Debridement Prior to a Two–Stage Revision Total Knee Arthroplasty Does Not Increase Risk of Failure  
*Deepak Ramanathan, MBBS*
- 11:14–11:20 a.m. Do Iodine–based Solutions differ in their Effectiveness for Decolonizing Intranasal Staphylococcus aureus? – *Maryam R Rezapoor, MS*
- 11:21–11:27 a.m. Diagnosis and Neurological Status as predictors of Surgical Site Infection in Primary Cervical Spinal Surgery – *Paul W. Millhouse, MD*
- 11:28–11:34 a.m. Alpha–Defensin is an Accurate Test for PJI – *Erdan Kayupov, MSE*
- 11:35–11:41 a.m. Factors Predicting Periprosthetic Joint Infection Recurrence after Two–Stage Exchange Arthroplasty – *Lazaros A. Poultsides*
- 11:42–11:48 p.m. Bacterial Persisters Remain on the Surface of Arthroplasty Materials after Antibiotic Treatment – *Kenneth Urish*

- 11:49–11:55 a.m. Tumor Megaprosthesis Infection: Limb Salvage and Infection Eradication Rates Following Two–Stage Revision with Retention of Compressively Osseointegrated Anchor Segments – *Christopher Langhammer, MD*
- 11:56 a.m.–12:14 p.m. Discussion
- 12:15–12:45 p.m. Introduction of Incoming President, Bryan D. Springer, MD  
Presentation of Jon T. Mader Award  
Presentation of Jeanette Wilkins Award
- 12:45–1:00 p.m. Announcements, Adjourn