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?  
*Micahel 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 SACOL0688 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 a.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–convener: Surgical Infection Society)**  
Moderator: Antonia F. Chen, MD  
*John Alverdy, MD* Chicago, IL

3:31–3:50 p.m. Refreshment Break  
**Visit Corporate Partners, View Electronic Posters**

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 25th 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  
Visit Corporate Partners, View Electronic Posters

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 Megaprostheses: 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