

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
<i>Steven K. Schmitt, MD</i> |
| 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 – <i>Joshua Lawrenz, MD</i> |
| 8:18–8:24 a.m. | Alpha–Defensin Accuracy to Diagnose Periprosthetic Joint Infection – Best Available Test? – <i>Salvatore J. Frangiamore, MD, MS</i> |
| 8:25–8:31 a.m. | Prosthesis Retention is Associated with Poor Outcomes in Patients with Pseudomonas Prosthetic Joint Infections – <i>Elie F. Berbari, MD</i> |
| 8:32–8:38 a.m. | Risk Factors for Staphylococcus aureus Nasal Colonization in Joint Replacement Patients – <i>Amanda Walsh, MD</i> |
| 8:39–8:45 a.m. | Nasal Decolonization of S. aureus reduces the Odds of Surgical Site Infections in TJA Patients: A Meta–analysis – <i>Bryce A. Van Doren, MPA, MPH</i> |
| 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 – <i>Carl Deirmengian, MD</i> |
| 9:04–9:10 a.m. | Commercially Pure Dissolvable Antibiotic Beads in the Treatment of Periprosthetic Joint Infection and Revision Arthroplasty
<i>Edward J. McPherson, MD</i> |
| 9:11–9:17 a.m. | Managing Large Bone Defects with Custom Spacers in Patients with Musculoskeletal Infections – <i>Steven Rivero, MD</i> |
| 9:18–9:24 a.m. | Development and Evaluation of a Preoperative Risk Calculator for Periprosthetic Joint Infection – <i>Timothy L. Tan, MD</i> |
| 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–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 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