

Agenda

**Friday, August 5, 2016**

- 7:15 a.m. Registration Opens
- 7:15–7:45 a.m. Continental Breakfast
- 7:45–7:55 a.m. Welcome, Disclosures  
*Bryan. D. Springer, MD*
- Session I Outcomes of Periprosthetic Joint Infection  
Moderators: J. David Blaha, MD and Douglas R. Osmon, MD
- 8:00–8:06 a.m. The Economic Impact of Periprosthetic Infection in Total Hip Arthroplasty – *Jason Akindolire MD, MSc*
- 8:07–8:13 a.m. Positive Blood Cultures in Periprosthetic Joint Infection Decrease Eradication Success Rate – *Mitchell R Klement, MD*
- 8:14–8:20 a.m. Polymicrobial Infections in Total Hip Arthroplasty: Cure Rates and Number of Operations – *Daniel Cunningham*
- 8:21–8:26 a.m. Periprosthetic Joint Infections Caused by Enterococci Have Poor Outcomes – *Timothy L. Tan, MD*
- 8:27–8:37 a.m. Discussion
- 8:38–8:44 a.m. Fate of Spacer Exchanges in Periprosthetic Joint Infection  
*Karan Goswami, MD*
- 8:45–8:51 a.m. A Multicenter Study of Debridement and Component Retention in TKA Periprosthetic Joint Infection: Treatment Failure is High – *Kenneth Urish*
- 8:52–8:58 a.m. Hemiradical Resection for Hip Arthroplasty Infection  
*Joseph Kavolus, MD*
- 8:59–9:05 a.m. I&D with Subsequent Resection vs Initial Resection for Treatment of Periprosthetic Hip Arthroplasty Infection – *Joseph Kavolus, MD*
- 9:06–9:16 a.m. Discussion

- Session II
- Perioperative Management and Infection Prevention  
Moderators: Javad Parvizi, MD and Sandra Nelson, MD
- 9:18–9:24 a.m. Obesity and Infection Burden of Total Joint Arthroplasty  
*Jaiben George, MBBS*
- 9:25–9:31 a.m. HbA1c Greater than 8% Significantly Increases Risk of PJI  
*Majd Tarabichi, MD*
- 9:32–9:38 a.m. Post-operative Blood Glucose Levels Predicts PJI after Primary Total Joint Arthroplasty – *Michael M. Kheir, MD*
- 9:39–9:45 a.m. Prevalent Comorbidities Associated with Higher Treatment Failure, Increased Surgery, and Longer Hospitalization for Peri-Prosthetic Hip Infection – *Daniel Cunningham*
- 9:46–9:56 a.m. Discussion
- 9:57–10:03 a.m. Beyond the Nose: Testing Extranasal Sites for *Staphylococcus aureus* Skin Carriage – *Michael Henry, MD*
- 10:04–10:10 a.m. Is A Universal Decolonization Protocol without Screening Before Total Joint Arthroplasty Cost Effective in Decreasing Surgical Site Infection Rates? – *Jeffrey B. Stambough, MD*
- 10:11–10:17 a.m. Vancomycin Is Frequently Underdosed In Total Joint Arthroplasty Patients – *Timothy L. Tan, MD*
- 10:18–10:24 a.m. Case Order Has an Effect on Periprosthetic Joint Infection Risk  
*Michael M. Kheir, MD*
- 10:25–10:35 a.m. Discussion
- 10:35–10:55 a.m. Refreshment Break – Visit Exhibitors and ePosters
- Session III
- Spine and Local Antibiotic Delivery  
Moderators: Antonia F. Chen, MD, MBA and Warren O. Haggard, PhD
- 10:55–11:01 a.m. Soaking Fabric Spinal Implant in Vancomycin Elutes Active Concentrations of Antibiotic Over Three Hours  
*Jessica Amber Jennings, PhD*
- 11:02–11:08 a.m. Postoperative Surgical Site Infection Increases Mortality following Elective Spine Surgery – *Douglas A. Hollern, MD*
- 11:09–11:15 a.m. Effect of Vancomycin versus Combination Antibiotic Therapy on Spinal Implant Infection in an In Vivo Mouse Model – *Stephen Zoller, MD*

- 11:16–11:22 a.m. Antibiotic Loaded Chitosan Sponges Inhibit Polymicrobial Biofilm in an Orthopaedic Infection Model – *Jessica Amber Jennings, PhD*
- 11:23–11:29 a.m. Chitosan Sponges Elute Active Ciprofloxacin and Rifampin for Local Infection Prevention – *Carlos M. Wells*
- 11:30–11:40 a.m. Discussion
- 11:42–11:48 a.m. Aqueous Fluids Increase Antimicrobial Release from Antibacterial Loaded Bone Cement – *Alex C. McLaren, MD*
- 11:49–11:55 a.m. MBEC Decreases with Long–Term Exposure to Antimicrobials  
*Paulo Castaneda*
- 11:56 a.m.–12:02 p.m. In Vitro Studies Into Biofilm Prevention Using Antibiotic–Loaded Beads: Implications For Prosthetic Infection Management – *Dr. Paul Stoodley*
- 12:03–12:09 p.m. Local Antimicrobial Delivery from PNDJ Gel after Debridement is Effective for Orthopaedic Infections: A Rabbit Study – *Paulo Castaneda*
- 12:10–12:20 p.m. Discussion
- 12:20–1:15 p.m. Luncheon – Pre–function Area of Ballroom
- Session IV  
Diagnosis of Periprosthetic Joint Infection  
Moderators: Steven K. Schmitt, MD and Brian Klatt, MD
- 1:20–1:26 p.m. Screening for Periprosthetic Joint Infections with ESR and CRP: The Ideal Cutoffs – *Karan Patel, MD*
- 1:27–1:33 p.m. The Alpha–Defensin Test Provides Incremental Benefit to the Traditional Tests for PJI – *Carl Deirmengian, MD*
- 1:34–1:40 p.m. The Old Dog but a New Trick! At Last a Serum Marker for Diagnosis of Periprosthetic Joint Infection – *Javad Parvizi, MD*
- 1:41–1:47 p.m. An Evidence–Based Clinical Prediction Algorithm for the Musculoskeletal Infection Society (MSIS) Minor Criteria  
*Joshua Bingham, MD*
- 1:48–1:58 p.m. Discussion
- 2:00–2:06 p.m. Diagnostic Accuracy of Aspirations Performed On Hips with Antibiotic Spacers – *Jared M. Newman, MD*
- 2:07–2:13 p.m. Automated Synovial Fluid Cell Counts are Often Aberrantly Elevated  
*Carl Deirmengian, MD*

- 2:14–2:20 p.m. Culture Duration in Periprosthetic Joint Infection: No difference in Microbiology Profile – *Mitchell R. Klement, MD*
- 2:21–2:27 p.m. How Many Cultures are Necessary to Identify Pathogens in the Management of Total Hip and Knee Arthroplasty (THA/TKA) Infections? – *Rikesh Gandhi, MD*
- 2:28–2:34 p.m. Sonication of Arthroplasty Implants Improves Accuracy of Periprosthetic Joint Infection Cultures – *Adam Rothenberg, MD*
- 2:35–2:45 p.m. Discussion
- 2:45–3:15 p.m. Refreshment Break – Visit Exhibitors and ePosters
- 3:15–4:15 p.m. Symposium: Medical Management of the High Risk Patient  
Moderator: Bryan Springer, MD  
*Susan Goodman, MD*  
*Barry Brause, MD*
- Session V Perioperative Management and General Musculoskeletal Infections  
Moderators: Barry Brause, MD and Edward McPherson, MD
- 4:20–4:26 p.m. Incise Draping (Ioban) Is Protective Against Surgical Site Contamination during Hip Surgery: A Prospective, Randomized Trial  
*Antonia F. Chen, MD, MBA*
- 4:26–4:32 p.m. Orthopaedic Operating Room Surface Cleanliness Measured With a Handheld ATP–Bioluminescence Assay – *Thomas R. Bowen, MD*
- 4:33–4:39 p.m. Preoperative Systemic Sepsis in Prosthetic Joint Infection – *Grace Xiong*
- 4:40–4:46 p.m. Inpatient Systemic Sepsis Alert Systems Do Not Demonstrate Utility after Total Joint Arthroplasty – *Antonia F. Chen, MD, MBA*
- 4:47–4:57 p.m. Discussion
- 4:59–5:05 p.m. Simplified Method for Treating Osteomyelitis of the Sternoclavicular Joint – *Kelly Schwemmer*
- 5:06–5:12 p.m. The Synovial Fluid WBC Counts from Native Septic Arthritis: Not as High as You Think – *Carl Deirmengian, MD*
- 5:13–5:19 p.m. Osteoarticular Infections due to Mycobacterium abscessus: A Difficult to Treat Pathogen – *Tue Ngo, MD*

- 5:20–5:26 p.m. Necrotizing Fasciitis in a Regional Medical Center: 36 Cases  
*Kelly Vince, MD*
- 5:27–5:37 p.m. Discussion
- 5:45–6:15 p.m. MSIS Business Meeting – *MSIS Members Only*
- 7:00–9:00 p.m. President's Reception – Charlotte City Club  
Second Annual Induction into The MSIS Hall of Fame

**Saturday, August 6, 2016**

- 7:15 a.m. Registration and Breakfast Open
- Session VI Basic Science of Musculoskeletal Infections  
Moderators: Aaron J. Tande, MD and Arvind Nana, MD
- 8:35–8:41 a.m. Engineered Bacteria Demonstrate the Metabolic Activity of Chronic Infections – *Laura Certain, MD, PhD*
- 8:42–8:48 a.m. Strategies to Treat Intracellular Staphylococcus Aureus in Orthopedic Infections – *Dr. Devendra Dusane*
- 8:49–8:55 a.m. Fighting Nature with Nature: Search for the Ultimate Antibacterial Irrigation Solution – *Tanine Daryoush*
- 8:56–9:02 a.m. Vitamin D Deficiency Increases Bioluminescent Bacterial Burden and Fluorescent Neutrophil Infiltration in an In Vivo Mouse Model of Periprosthetic Joint Infection – *Stephen Zoller, MD*
- 9:03–9:13 a.m. Discussion
- 9:15–9:21 a.m. Antimicrobial–Loaded Phosphatidylcholine Coatings Inhibit Biofilm in an Orthopaedic Infection Model: A Pilot Study – *Michael Harris*
- 9:22–9:28 a.m. Cationic Amphipathic Peptides Are Able To Eliminate Bacterial Persisters in PJI Biofilm – *Kenneth Urish*
- 9:29–9:35 a.m. MBECs of In Vitro Biofilms Are Not Accurate Representations of MBECs of In Vivo Biofilms – *Paulo Castaneda*
- 9:36–9:42 a.m. A Novel Assay to Detect Bacterial Antigen in Synovial Fluid  
*Carl Deirmengian, MD*
- 9:43–9:53 a.m. Discussion

- 10:00–11:00 a.m. Symposium: Biophysical Pathogen Identification: a New Paradigm in Diagnosis of Musculoskeletal Infections  
Moderator: Alex C. McLaren, MD  
*Mark Hayes, PhD*
- 11:00–11:30 a.m. Refreshment Break – Visit Exhibitors and ePosters
- Session VII Periprosthetic Joint Infection Diagnosis and Outcomes  
Moderators: Camelia Marculescu, MD and Thorsten Seyler, MD
- 11:35–11:42 a.m. The Burden of Illness Associated with Post–Operative Infections: The Patient Perspective – *Antonia F. Chen, MD, MBA*
- 11:43–11:49 a.m. Prosthetic Joint Infection (PJI) in Hematologic Malignancies: A Retrospective Review of Patients at Mayo Clinic – *Vania Phuoc, MD*
- 11:50–11:56 a.m. The Results of Static Spacer Technique for Treating Infected Total Knee Arthroplasty – *Jeffrey F. Granger, MD*
- 11:57 a.m.–12:03 p.m. Proximal Placement of Knee Joint in the One Stage Revision of Infected Total Knees with Large Anterior Defects Requiring Patellectomy and Proximal Tibial and Distal Femoral Resections for Salvage  
*Gerhard Emil Maale, MD*
- 12:04–12:14 p.m. Discussion
- 12:16–12:22 p.m. The Performance of Routine Tests for Diagnosing Periprosthetic Joint Infection – *Michael M. Kheir, MD*
- 12:23–12:29 p.m. Leukocyte Esterase Test Predicts Failure following Reimplantation in PJI Patients: A Prospective Study – *Colin Ackerman, BS*
- 12:30–12:36 p.m. The Idea of False Positive Cultures on Joint Aspiration is Wrong  
*David Clinton McNabb, MD*
- 12:37–12:43 p.m. The Utility of Leukocyte Esterase Test in the Diagnosis of Culture Negative PJI – *Majd Tarabichi, MD*
- 12:44–12:54 p.m. Discussion
- 12:55–1:15 p.m. Introduction of Incoming President: Sandra Nelson, MD  
Presentation of Jon T. Mader Award  
Presentation of Jeanette Wilkins Award  
Presentation of George Cierny, III Memorial Award
- 1:15–1:30 p.m. Closing Remarks, Adjourn