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