

Agenda

Friday, August 4, 2017

- 7:15 a.m. Registration Opens – **Rooftop Ballroom Foyer**
- 7:15–7:45 a.m. Continental Breakfast – **Visit Exhibitors and ePosters
Wheatley Terrace**
- 7:45–7:55 a.m. Welcome, Disclosures – *Sandra B. Nelson, MD*
- Session I** **Biofilm Basic Science**
Moderator: Alex C. McLaren, MD
- 8:00–8:06 a.m. Antibiotic Loaded Bone Cement Mediated Killing of *P. Aeruginosa* Biofilms on Implant Materials – *James Moley*
- 8:07–8:13 a.m. Antimicrobial Susceptibility of Tissues-based Bacterial Biofilms
Alex C. McLaren, MD
- 8:14–8:20 a.m. In Vitro Formulation of an Antibiotic Eluting Joint Implant for Peri-Prosthetic Infection Treatment – *Ebru Oral*
- 8:21–8:26 a.m. In Vivo Efficacy of an Antibiotic Eluting UHMWPE Bearing Surface against Biofilm an a Lapine Model – *Ebru Oral*
- 8:27–8:36 a.m. Discussion
- 8:37–8:43 a.m. Staphylococcus aureus Genomic Variation Impacts Clinical Severity of Illness Phenotype of Children with Acute Hematogenous Osteomyelitis
Lawson A. Copley, MD
- 8:44–8:50 a.m. DNase I Inhibits Biofilm -like Aggregates of Clinical and Laboratory Strains of Staphylococcus aureus – *Devendra Dusane, PhD*
- 8:51–8:57 a.m. All Staphylococcus is not the Same: Genotype Diversity in *S. Aureus* Between PJI and Nasal Isolates – *Kenneth Urish, MD, PhD*
- 8:58–9:04 a.m. Large Clinical Variations in Antibiotic Ability to Remove Staphylococcus aureus Biofilm in Periprosthetic Joint Infection
Kenneth Urish, MD, PhD
- 9:05–9:14 a.m. Discussion

Session II**Prosthetic Joint Infection**

Moderator: Hany Bedair, MD

- 9:16–9:22 a.m. How to Manage Persistent Draining Wounds after Total Joint Arthroplasty? *Richard Boe, MD*
- 9:23–9:29 a.m. Elevated INR in the Acute Postoperative Period after Total Knee Arthroplasty is Associated with Periprosthetic Joint Infections despite Utilization of a Dedicated Anticoagulation Clinic – *Joshua Bingham, MD*
- 9:30–9:36 a.m. Crystal Positive Synovial Fluid: Do Not Dismiss the Likelihood of Infection – *Carl Deirmengian, MD*
- 9:37–9:43 a.m. Sonication of Antibiotic Spacers does not Predict Recurrence after 2–stage Revision Arthroplasty for Infection – *Adam Olsen, MD*
- 9:44–9:53 a.m. Discussion
- 9:54–10:00 a.m. Vancomycin Povidone–Iodine Protocol Improves Survivorship of Periprosthetic Joint Infection Treated with Irrigation and Debridement *Aldo M. Riesgo, MD*
- 10:01–10:07 a.m. Coating of Cementless Stems with Commercially Pure Antibiotic–Loaded Calcium Sulfate Reduces Infection Rate in Revision THA *Edward J. McPherson, MD*
- 10:08–10:14 a.m. Culturing Periprosthetic Joint Infection: A 15–year Study and Analysis of Samples, Growth Duration, Outcomes, and Organisms *Michael Kheir, MD*
- 10:15–10:21 a.m. No Optimal Antibiotic–free Period Prior to Reimplantation for Periprosthetic Joint Infection – *Timothy Tan, MD*
- 10:22–10:31 a.m. Discussion
- 10:32–10:52 a.m. Refreshment Break – **Visit Exhibitors and ePosters**
Rooftop Ballroom Foyer and Wheatley Terrace

Session III**Prosthetic Joint Infection**

Moderator: Antonia F. Chen, MD, MBA

- 10:55–11:01 a.m. Assessment of Musculoskeletal Infection Society (MSIS) Diagnostic Criteria as Predictors of Treatment Success in Hip Arthroplasty Infections Treated with Two–Stage Exchange – *Andy O. Miller, MD*
- 11:02–11:08 a.m. Are All Periprosthetic Infections Equal? Effect of Major Versus Minor Criteria and Patient Outcomes – *Mitchell R. Klement MD*

- 5:21–5:27 p.m. Risk Adjustment is Necessary in Value–Based Outcomes Models for Infected Total Knee Arthroplasty – *P. Maxwell Courtney, MD*
- 5:28–5:37 p.m. Discussion
- 5:40–6:10 p.m. MSIS Business Meeting – *MSIS Members Only*
- 6:30–8:30 p.m. President's Reception
Third Annual Induction – The MSIS Hall of Fame
- UMass Club
1 Beacon Street, 32nd Floor
Walking directions in general information sent via e-mail

Saturday, August 5, 2017

- 7:00 a.m. Registration Opens – **Rooftop Ballroom Foyer**
- 7:00 to 8:15 a.m. Continental Breakfast – **Press Room, Mezzanine Level**
- Visit Exhibitors and ePosters – Ballroom Foyer and Wheatley Terrace**

Session VI

Basic Science

Moderator: Barry D. Brause, MD

- 8:30–8:36 a.m. Coating Orthopaedic Wires with Monolaurin to Eliminate Staphylococcal Pin Site Infections – *Dmitry Gil*
- 8:37–8:43 a.m. Efficacy and Dose Response of Vancomycin Powder within a Mouse Model of Spinal Implant Infection – *Gideon Blumstein MD, MS*
- 8:44–8:50 a.m. Fluorescence Image–guided Surgery with Staphylococcus aureus Specific Probes within an In–vivo Mouse Model of Spine Implant Infection
Gideon Blumstein MD, MS
- 8:51–8:57 a.m. Novel In Vivo Mouse Model of Shoulder Implant Infection and Osteomyelitis – *Zachary D. Burke, MD*
- 8:58–9:07 a.m. Discussion
- 9:08–9:14 a.m. Novel Immuno–based Microbial ID Assays for Organism Detection in Synovial Fluid – *Carl Deirmengian, MD*
- 9:15–9:21 a.m. Tri–phasic Bone Void Filler Releases Antibiotics from Degradable Matrix – *Hamza Ahmed*
- 9:22–9:28 a.m. PNDJ Hydrogel Provides High, Sustained Antimicrobial Levels by Local Delivery – *Alex C. McLaren, MD*
- 9:29–9:35 a.m. A Novel Mouse Model of Bulk Allograft Infection Demonstrates a Biphasic Peak in Infection Intensity – *Zachary D. Burke, MD*

- 9:36–9:42 a.m. Bulk Allograft is More Susceptible to Infection than is Stainless Steel or Cancellous Allograft using a Novel Mouse Model of Infection
Zachary Burke, MD
- 9:43–9:53 a.m. Discussion
- 9:55–10:25 a.m. Symposium: **Oral versus Intravenous Antibiotics for Bone and Joint Infection**
Moderator: Douglas R. Osmon, MD

Matthew Scarborough, MD
Oxford University Hospitals NHS FT
- 10:26–10:45 a.m. Refreshment Break – **Visit Exhibitors and ePosters**
Ballroom Foyer and Wheatley Terrace
- Session VII** **Musculoskeletal Infections Clinical Science**
Moderator: Aaron J. Tande, MD
- 10:46–10:52 a.m. Development of a Predictive Algorithm for 90–day Mortality in Patients with Spinal Epidural Abscess – *Paul T. Ogink*
- 10:53–10:59 a.m. Non–operative Management of Spinal Epidural Abscess: Development of a Predictive Algorithm for Failure – *Paul T. Ogink*
- 11:00–11:06 a.m. Fungal Spinal Epidural Abscess: Characteristics of FSEA and the Differences between FSEA and BSEA – *Gi Hye Im*
- 11:07–11:13 a.m. Antibiotic Impregnated Calcium Phosphate does not Help Prevent Post–Operative Infections when used as Bone Void Filler
Travis Parkulo
- 11:14–11:23 a.m. Discussion
- 11:24–11:30 a.m. Septic Olecranon Bursitis caused by Non–tuberculous Mycobacteria, the Mayo Clinic Experience – *Anil Jagtiani*
- 11:31–11:37 a.m. Septic Olecranon Bursitis Treated with Surgical Debridement, the Mayo Clinic Experience – *Anil Jagtiani*
- 11:38–11:44 a.m. Early Diagnosis of Septic Arthritis in Immunocompromised Patients
Daniel D. Li
- 11:45–11:51 a.m. Hepatitis C Viral Load and Total Joint Arthroplasty
Marcus DiLallo
- 11:52–11:58 a.m. Preoperative Serum Fructosamine: A Simple and Inexpensive Test for Predicting Periprosthetic Joint Infection – *Noam Shohat*
- 11:59 a.m.–12:09 p.m. Discussion

12:15–12:35 p.m.

Introduction of Incoming President: Antonia F. Chen, MD, MBA
Sandra B. Nelson, MD

Presentation of Jon T. Mader Award

Presentation of Jeanette Wilkins Award

Presentation of George Cierny, III Memorial Award

Sandra B. Nelson, MD and Douglas R. Osmon, MD

12:36–12:50 p.m.

Closing Remarks, Adjourn