<u>Agenda</u>

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 – <i>James Moley</i>
8:07–8:13 a.m.	Antimicrobial Susceptibility of Tissues–based Bacterial Biofilms <i>Alex C. McLaren, MD</i>
8:14–8:20 a.m.	In Vitro Formulation of an Antibiotic Eluting Joint Implant for Peri–Prosthetic Infection Treatment – <i>Ebru Oral</i>
8:21–8:26 a.m.	In Vivo Efficacy of an Antibiotic Eluting UHMWPE Bearing Surface against Biofilm an a Lapine Model – <i>Ebru Oral</i>
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 – <i>Devendra Dusane</i> , <i>PhD</i>
8:51–8:57 a.m.	All Staphylococcus is not the Same: Genotype Diversity in S. Aureus Between PJI and Nasal Isolates – <i>Kenneth Urish</i> , <i>MD</i> , <i>PhD</i>
8:58–9:04 a.m.	Large Clinical Variations in Antibiotic Ability to Remove Staphylococcus aureus Biofilm in Periprosthetic Joint Infection <i>Kenneth Urish, MD, PhD</i>
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? <i>Richard Boe, MD</i>
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 – <i>Joshua Bingham, MD</i>
9:30–9:36 a.m.	Crystal Positive Synovial Fluid: Do Not Dismiss the Likelihood of Infection – <i>Carl Deirmengian</i> , <i>MD</i>
9:37–9:43 a.m.	Sonication of Antibiotic Spacers does not Predict Recurrence after 2–stage Revision Arthroplasty for Infection – <i>Adam Olsen, MD</i>
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 <i>Aldo M. Riesgo, MD</i>
10:01–10:07 a.m.	Coating of Cementless Stems with Commercially Pure Antibiotic—Loaded Calcium Sulfate Reduces Infection Rate in Revision THA <i>Edward J. McPherson, MD</i>
10:08–10:14 a.m.	Culturing Periprosthetic Joint Infection: A 15–year Study and Analysis of Samples, Growth Duration, Outcomes, and Organisms <i>Michael Kheir, MD</i>
10:15–10:21 a.m.	No Optimal Antibiotic–free Period Prior to Reimplantation for Periprosthetic Joint Infection – <i>Timothy Tan, MD</i>
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 – <i>Andy O. Miller, MD</i>
11:02–11:08 a.m.	Are All Periprosthetic Infections Equal? Effect of Major Versus Minor Criteria and Patient Outcomes – <i>Mitchell R. Klement MD</i>

11:09–11:15 a.m.	Development and Evaluation of a Preoperative Treatment Success Calculator for Periprosthetic Joint Infection – <i>Michael Kheir, MD</i>
11:16–11:22 a.m.	Outcomes of Articulating Spacers with Autoclaved Femoral Components in Total Knee Arthroplasty Infection – <i>Daniel E. Goltz</i>
11:23–11:32 a.m.	Discussion
11:35 a.m.–12:35 p.m.	Symposium: Musculoskeletal Infections in Persons who Inject Drugs Moderator: Sandra B. Nelson, MD
	Eric L. Smith, MD Boston Medical Center
	Alysse G. Wurcel, MD Tufts Medical Center
12:35–1:40 p.m.	Luncheon – Press Room, Mezzanine Level
Session IV	Diagnosis of Periprosthetic Joint Infection Moderator: Javad Parvizi, MD
1:41–1:47 p.m.	Utility of Serological Markers for Detecting Persistent Infection in Two–Stage Revision Arthroplasty in Patients with Inflammatory Arthritis <i>Jaiben George, MBBS</i>
1:48–1:54 p.m.	Synovial Fluid Biomarkers for the Diagnosis of Periprosthetic Joint Infection: A Systematic Review and Meta–Analysis <i>Antonia F. Chen, MD, MBA</i>
1:55–2:01 p.m.	The Leukocyte Esterase Test Strip is a Poor Rule–out Test for PJI Carl Deirmengian, MD
2:02–2:08 p.m.	Can Serum D–Dimer Be the Savior for Diagnosing Periprosthetic Joint Infection in Shoulder Arthroplasties? – <i>Alisina Shahi</i>
2:09–2:18 p.m.	Discussion
2:19–2:25 p.m.	Diagnosing Periprosthetic Joint Infection: The Promise of Next Generation Sequencing – <i>Javad Parvizi, MD, FRCS</i>
2:26–2:32 p.m.	Next–generation Sequencing is a Valid Tool for Detecting Pathogens in Synovial Fluid – <i>Javad Parvizi</i> , <i>MD</i> , <i>FRCS</i>
2:33–2:39 p.m.	Marker to Guide Reimplantation after Two-stage Exchange Arthroplasty for Periprosthetic Joint Infection: A Meta-analysis <i>Antonia F. Chen, MD, MBA</i>
2:40–2:46 p.m.	The Rapid Lateral–Flow Test for Alpha–Defensin Matches the Lab Test Carl Deirmengian, MD

2:47–2:53 p.m.	Clinical Evaluation of the Alpha Defensin Test in Diagnosing Prosthetic Joint Infections – <i>Hernan A. Prieto, MD</i>
2:54–3:04 p.m.	Discussion
3:05–4:00 p.m.	Symposium Radical Approaches to Antibiotics and Bacterial Persistence Moderator: Kenneth Urish, MD, PHD
	James J. Collins, PhD Termeer Professor of Medical Engineering & Science Professor, Department of Biological Engineering Massachusetts Institute of Technology Broad Institute of MIT and Harvard Wyss Institute for Biologically Inspired Engineering, Harvard University
4:01–4:20 p.m.	Refreshment Break – Visit Exhibitors and ePosters Ballroom Foyer and Wheatley Terrace
Session V	Epidemiology, Risk Factors and Prevention Moderator: Angela Hewlett, MD
4:22–4:28 p.m.	Weighing in on Periprosthetic Joint Infection: The Risk for Infection Rises Steadily with Increased Body Mass Index – <i>Noam Shohat</i>
4:29–4:35 p.m.	Diabetes and Total Joint Arthroplasty: Infection Risk May Not Be Predictable by Markers of Glycemic Control – <i>Sean P. Ryan</i>
4:36–4:42 p.m.	Patients with Psychosis are at Increased Risk of Septic and Aseptic Complications after Total Joint Arthroplasty – <i>Timothy Tan, MD</i>
4:43–4:49 p.m.	Preoperative Doxycycline does not Decolonize Propionibacterium Acnes from the Skin of the Shoulder: A Randomized Controlled Trial <i>Thema Nicholson</i>
4:50–4:59 p.m.	Discussion
5:00–5:06 p.m.	A Decade of Practice Developments for SSI Prevention: Betadine Irrigation Prevails – <i>Karan Goswami, MD</i>
5:07–5:13 p.m.	HEPA Filters Do Not Affect Infection Rates following Primary Total Joint Arthroplasty with Forced Air Warmers – <i>Gannon Curtis, MD</i>
5:14–5:20 p.m.	Association between Hospital Volume of Infected Surgeries and Risk of Periprosthetic Joint Infection – <i>Jaiben George, MBBS</i>

5:21–5:27 p.m.	Risk Adjustment is Necessary in Value–Based Outcomes Models for Infected Total Knee Arthroplasty – <i>P. Maxwell Courtney, MD</i>
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, 32 nd Floor Walking directions in general information sent via e-mail
Saturday, August 5, 20	17
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.	
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8:30–8:36 a.m.	Moderator: Barry D. Brause, MD Coating Orthopaedic Wires with Monolaurin to Eliminate Staphylococcal Pin Site Infections – <i>Dmitry Gil</i> Efficacy and Dose Response of Vancomycin Powder within a Mouse
8:30–8:36 a.m. 8:37–8:43 a.m.	Moderator: Barry D. Brause, MD Coating Orthopaedic Wires with Monolaurin to Eliminate Staphylococcal Pin Site Infections – <i>Dmitry Gil</i> Efficacy and Dose Response of Vancomycin Powder within a Mouse Model of Spinal Implant Infection – <i>Gideon Blumstein MD</i> , <i>MS</i> Fluorescence Image–guided Surgery with Staphylococcus aureus Specific Probes within an In–vivo Mouse Model of Spine Implant Infection
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Delivery – *Alex C. McLaren, MD*9:29–9:35 a.m. A Novel Mouse Model of Bulk Allograft Infection Demonstrates a

Matrix – Hamza Ahmed

9:22-9:28 a.m.

Biphasic Peak in Infection Intensity – *Zachary D. Burke, MD*

PNDJ Hydrogel Provides High, Sustained Antimicrobial Levels by Local

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 <i>Zachary Burke</i> , <i>MD</i>
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 – <i>Paul T. Ogink</i>
10:53–10:59 a.m.	Non–operative Management of Spinal Epidural Abscess: Development of a Predictive Algorithm for Failure – <i>Paul T. Ogink</i>
11:00–11:06 a.m.	Fungal Spinal Epidural Abscess: Characteristics of FSEA and the Differences between FSEA and BSEA – <i>Gi Hye Im</i>
11:07–11:13 a.m.	Antibiotic Impregnated Calcium Phosphate does not Help Prevent Post–Operative Infections when used as Bone Void Filler <i>Travis Parkulo</i>
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 – <i>Anil Jagtiani</i>
11:31–11:37 a.m.	Septic Olecranon Bursitis Treated with Surgical Debridement, the Mayo Clinic Experience – <i>Anil Jagtiani</i>
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 – <i>Noam Shohat</i>
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