

## Agenda

*All meeting spaces are located directly behind the security desk in Jefferson Alumni Hall, 1<sup>st</sup> Floor. Upon arrival, go to the right of the security desk and look for the MSIS registration table.*

### Friday, July 27, 2018

- 12:00 p.m. Registration Opens
- 1:00 p.m. **Visit Exhibitors and ePosters**
- 1:15–1:55 p.m. MSIS Business Meeting – *MSIS Members Only*
- 2:00–2:09 p.m. Welcome, Disclosures – *Antonia F. Chen, MD, MBA*
- Carl L. Nelson Lecture**  
**International Panel Discussion on Periprosthetic Joint Infection**  
Moderator: Antonia F. Chen, MD, MBA
- Chile:** Claudio Diaz, MD  
**China:** Yixin Zhou, MD, PhD  
**Mexico:** Salvador Rivero–Boschert, MD  
**New Zealand:** Kelly Vince, MD  
**Slovenia:** Rihard Trebše, MD  
**South Africa:** Richard Kyte, MD  
**Taiwan:** Yuhan Chang MD, PhD  
**Basic Science:** Noreen Hickok, PhD
- 3:24–3:45 p.m. Refreshment Break – **Visit Exhibitors and ePosters**
- Session I** **Antimicrobials and Total Joint Arthroplasty**  
Moderators: Brian A. Klatt, MD and Barry D. Brause, MD
- 3:46–3:52 p.m. Single vs. Multiple Doses of Prophylactic Antibiotics in Orthopaedic Surgery: A Meta–Analysis – *Sean Ryan, MD*
- 3:53–3:59 p.m. Perioperative Antibiotic Prophylaxis in Total Joint Arthroplasty: A Single Dose is as Effective as Multiple Doses – *Timothy L. Tan, MD*
- 4:00–4:06 p.m. Extended Perioperative Antibiotic Prophylaxis Confers no Additional Benefit Following Aseptic Revision Total Hip Arthroplasty  
*Feng–Chih Kuo, MD*
- 4:07–4:13 p.m. Assessing the Role of Daptomycin as Antibiotic Therapy for Staphylococcal Prosthetic Joint Infection – *Michael W. Henry, MD*

- 4:13–4:19 p.m. Discussion
- 4:20–4:26 p.m. Intraoperative Prophylactic Techniques for the Prevention of Periprosthetic Joint Infection in Primary Total Joint Arthroplasty: A Systematic Review and Meta-Analysis – *Elie Ghanem, MD*
- 4:27–4:33 p.m. Effect of Antibiotic-Impregnated Bone Cement on Postoperative Infections in Primary Total Knee Arthroplasty – *Hiba Anis, MD*
- 4:34–4:40 p.m. Longer Operative Time Results in a Higher Rate of Subsequent Periprosthetic Joint Infection in Patients Undergoing Primary Joint Arthroplasty  
*Irene Kalbian, BS*
- 4:41–4:47 p.m. Antibiotic Resistance Increases During Treatment of Prosthetic Joint Infection  
*Cierra S. Hong, BA*
- 4:48–4:54 p.m. Discussion
- 4:55–5:00 p.m. Hall of Fame Induction – Jon T. Mader, MD *Awarded Posthumously*
- 5:00 p.m. Adjourn

### **Saturday, July 28, 2018**

- 6:30 a.m. Registration Opens
- 6:45 a.m. Continental Breakfast
- 6:45–7:45 a.m. Morning Symposium – Center Atrium
- Session II**                      **Basic Science and Antimicrobial Delivery**  
Moderators: Thorsten Seyler, MD and Maja Babic, MD
- 7:50–7:56 a.m. PNDJ Hydrogel for Local Antimicrobial Delivery is Not Systemically Toxic  
*Alex C. McLaren, MD*
- 7:57–8:03 a.m. Injectable Derivatized Chitosan Paste Local Delivery System Elutes Antimicrobials for 7 Days – *Logan R. Boles, BS*
- 8:04–8:10 a.m. Development of a Rabbit Model of Femoral Peri-Implant Osteomyelitis  
*Peter Alexander, PhD*
- 8:11–8:17 a.m. Toward Translational Treatments for the Infected Implant: A Novel Mouse Model of Revision Arthroplasty for PJI – *Chad Ishmael, MD*
- 8:18–8:24 a.m. Discussion

- 8:25–8:31 a.m. Investigating the Efficiency of Using Bacteriophage as a Potential Therapeutic Adjunct to Antibiotics for Peri–Prosthetic Joint Infection  
*Mariam Taha, PhD*
- 8:32–8:38 a.m. The Osteocyte as a Target Cell and Disease Nidus in Periprosthetic Joint Infection – *Professor Gerald J. Atkins*
- 8:39–8:45 a.m. Zoledronic Acid Increases Bacterial Burden and Infection Rate in a Validated Mouse Model of Implant Infection – *Peter Hsiue, MD*
- 8:46–8:52 a.m. Polymyxin and Bacitracin in the Irrigation Solution: There is No Role for This Practice – *Karan Goswami, MD*
- 8:53–8:59 a.m. Acinetobacter Inhibits Osseointegration by Inducing Inflammatory Osteolysis: Role of Quorum Sensing – *Edward M. Greenfield, PhD*
- 9:00–9:06 a.m. Discussion
- 9:07–9:30 a.m. Refreshment Break – **Visit Exhibitors and ePosters**
- 9:31–10:35 a.m. **Symposium: Single–stage Treatment of Infected Fractures and Osteomyelitis**  
Moderator: Barry D. Brause, MD
- Dr. Martin McNally*  
Lead Surgeon  
Oxford Bone Infection Unit  
Nuffield Orthopaedic Centre  
Oxford University Hospitals  
Honorary Senior Lecturer  
Oxford University  
President, European Bone and Joint Infection Society
- Dr. Matthew Scarborough*  
Consultant in Clinical Infection  
Oxford University Hospitals NHS FT
- Session III**
- Periprosthetic Joint Infection**  
Moderators: Carlos Higuera–Rueda, MD and Sandra B. Nelson, MD
- 10:36–10:42 a.m. Periprosthetic Joint Infection in Patients with Multiple Arthroplasties: Investigate Other Joints? – *George A. Komnos, MD*
- 10:43–10:49 a.m. Total Joint Arthroplasty in Patients with History of Treated Same–Joint Septic Arthritis: A Multi–Center Investigation of Incidence and Risk Factors for Periprosthetic Joint Infection – *Assem Sultan, MD*

- 10:50–10:56 a.m. Total Hip Arthroplasty after Prior Acetabular Fracture: Infection is a Real Concern – *Matthew Kheir, MD*
- 10:57–11:03 a.m. Outcomes of Knee Periprosthetic Joint Infection Reconstruction Treated with Hinged Prosthesis – *Michael Chen, MD*
- 11:04–11:10 a.m. Total Knee Arthroplasty Megaprosthesis in Non–tumor Patients–Are Septic Indications Worth the Effort? – *Carlos Higuera–Rueda, MD*
- 11:11–11:21 a.m. Discussion
- 11:22–11:28 a.m. Articulating Spacers as a Modified One–Stage Revision TKA: A Preliminary Analysis – *Ahmed Siddiqi, DO*
- 11:29–11:35 a.m. The Infected Spacer: The Impact of Spacer Exchanges and Debridement on Two–Stage Exchange Arthroplasty Outcomes  
*Andy O. Miller, MD*
- 11:36–11:42 a.m. Negative Cement Spacer Sonication is Associated with Successful Reimplantation in Multi–Stage Revision for PJI – *Jason P. Zlotnicki, MD*
- 11:43–11:49 a.m. Defining Treatment Success after Two Stage Exchange Arthroplasty for Periprosthetic Joint Infection – *Alexander J. Rondon, MD*
- 11:50–11:59 a.m. Discussion
- 12:00–12:59 p.m. Luncheon Symposium – Center Atrium

#### Session IV

#### Diagnostics and Cultures

Moderators: Aaron J. Tande, MD and Antonia F. Chen, MD, MBA

- 1:00–1:06 p.m. The Journey of a Culture: From Operating Room to Final Report  
*Matthew Kheir, MD*
- 1:07–1:13 p.m. An Enhanced Understanding of Culture–negative Periprosthetic Joint Infection with Next Generation Sequencing – *Karan Goswami, MD*
- 1:14–1:20 p.m. Organism Profile Causing Periprosthetic Joint Infection: is this Different in Total Hip Versus Total Knee Arthroplasty? – *Hannah Groff, BA*
- 1:21–1:27 p.m. Propionibacterium acnes is Less Commonly Identified by Next Generation Sequencing than Culture in Primary Shoulder Surgery  
*Surena Namdari, MD, MSc*
- 1:28–1:34 p.m. Discussion

- 1:35–1:41 p.m. Fibrinogen and Alpha 2 Macroglobulin are Promising Serum Biomarkers to Diagnose and Monitor Periprosthetic Joint Infection  
*Sreeram Peena, MD*
- 1:42–1:48 p.m. Diagnostic Accuracy of Alpha–Defensin Test at Reimplantation of a Two–Stage Revision for Periprosthetic Joint Infection  
*Linsen T. Samuel, MD, MBA*
- 1:49–1:55 p.m. The Diagnostic Accuracy of the Alpha Defensin Lateral Flow Test Kit in Asians – *Benjamin Ding, MBBS, MRCS (Edin)*
- 1:56–2:02 p.m. Diagnostic Accuracy of the Alpha–defensin for Periprosthetic Joint Infection in Patients with Inflammatory Diseases – *Alison Klika, MS*
- 2:03–2:09 p.m. ESR and CRP Have A High Discordant Rate in PJIs – *Joshua Bingham, MD*
- 2:10–2:16 p.m. Discussion

**Session V****Biofilms and Acute and Chronic PJI Management**

Moderators: Alex C. McLaren, MD and Andy O. Miller, MD

- 2:17–2:23 p.m. Staphylococcus Aureus Carriage Rates are Higher in Rheumatoid Arthritis Patients on Biologics – *Andy O. Miller, MD*
- 2:24–2:30 p.m. Is it Time to Rethink the IWGDF/IDSA Classification System for Diabetic Foot Infections? – *Easton Ryan*
- 2:31–2:37 p.m. Greater Knee Soft Tissue Thickness Predisposes Patients to Subsequent Periprosthetic Joint Infection after Total Knee Arthroplasty  
*Antonia F. Chen, MD, MBA*
- 2:38–2:44 p.m. Risk Adjustment is Necessary in Value–Based Outcomes Models for Infected Total Hip Arthroplasty – *Anthony J. Boniello, MD*
- 2:45–2:51 p.m. Discussion  
*Refreshments available in Right Wing of Atrium – please help yourself quietly*
- 2:52–2:58 p.m. MagDAA with Magnetic Hyperthermia Successfully Disrupts Bacterial Biofilm–A Potential Treatment for PJI – *Carlos Higuera–Rueda, MD*
- 2:59–3:05 p.m. Control of Pseudomonas aeruginosa and Staphylococcus aureus Biofilms Grown on Implant Materials Using Antibiotic Loaded Absorbable Beads  
*Paul Stoodley, PhD*
- 3:06–3:12 p.m. In Vivo Bioluminescence Imaging in a Rabbit Model of Orthopedic Implant–Associated Infection to Monitor Efficacy of an Antibiotic–Releasing Coating  
*John M. Thompson, MD*

- 3:13–3:19 p.m. Non–Invasive Detection of Gram Positive and Gram Negative Bacteria with Single Fluorescent–Linked Probe in Mouse Model of Spine Implant Infection  
*Chad Ishmael, MD*
- 3:20–3:33 p.m. Discussion
- 3:34–3:40 p.m. Increased Failure after Irrigation and Debridement for Acute Hematogenous PJI – *Noam Shohat, MD*
- 3:41–3:57 p.m. Implant Survivorship in Prosthetic Joint Infection with Retained Prostheses – *Michael W. Henry, MD*
- 3:58–4:04 p.m. Positive Blood Cultures are Associated with Decreased Treatment Success in Acute Hematogenous Periprosthetic Joint Infection – *Feng–Chih Kuo, MD*
- 4:05–4:11 p.m. Changing Trends, Risk Factors, and Treatment Challenges in Staphylococcus aureus Septic Arthritis – *Kenneth L. Urish, MD, PhD*
- 4:12–4:18 p.m. Reevaluating Success in Treating Chronic Periprosthetic Joint Infections in Total Hip Arthroplasty? – *Karan Srivastava, MD, MBA*
- 4:19–4:25 p.m. Do All Patients Undergo Reimplantation after Resection Arthroplasty of an Infected Knee and Hip? – *Qiaojie Wang, MD*
- 4:26–4:32 p.m. Reconsidering the Strategies to Manage Chronic Periprosthetic Total Knee Infections: Using Analytics to Find the Optimal Strategy between One–Stage and Two–Stage Total Knee Revision – *Karan Srivastava, MD, MBA*
- 4:33–4:39 p.m. The Presence of Sinus Tract Adversely Affects the Outcome of Treatment of Periprosthetic Joint Infections – *Chi Xu, MD*
- 4:40–4:50 p.m. Discussion
- 4:51–5:10 p.m. Poster Session
- 5:11–5:20 p.m. Introduction of Incoming President: Barry D. Brause, MD  
*Antonia F. Chen, MD, MBA*
- 5:21–5:26 p.m. Awards  
*The Jon T. Mader Award*  
*The Jeanette Wilkins Award*  
*The Poster Award*
- 5:27–5:30 p.m. Closing Remarks, Adjourn