

34th Annual Open Scientific Meeting August 2-3, 2024 Durham, NC

Agenda

Friday, August 2, 2024

Duke Ballroom

7:00am Registration Opens

Ballroom foyer

7:00-8:30am **Breakfast**

MarketPlace Visit Exhibitors and e-Posters

7:45am Welcome, Disclosures

Thorsten Seyler, MD PhD, MSIS President

Session I BASIC SCIENCE

Moderators: Jessica Seidelman, MD, and Alberto Carli, MD

8:00am Evaluating Soaking Duration: Ex Vivo vs In Vitro Methods for Determining the

Efficacy of Dilute Povidone-Iodine Irrigation Solution (#1356)

Alisina Shahi, Kenneth Mathis, Robert Frangie, Adam Freedhand,

David Rodriguez-Quintana

8:06am Prolonged Antimicrobial Effect of Titanium Dioxide Nanotubes Loaded with Silver

Nanoparticles and Calcium Phosphate (#1270)

Sabrina Huang, David Detwiler

8:12am Preventing Infections in Extensor Mechanism Reconstruction: Best Practices with

Synthetic Meshes (#1352)

Alisina Shahi, Kenneth B Mathis, Robert Frangie, Adam Freedhand,

David Rodriguez-Quintana

8:18am A Novel Isotropic Optical Fiber: Antimicrobial Effect of Blue Light on Drug

Resistant Organisms (#1253)

Megan Goh, Robert Rabiner, Santiago Lozano-Calderon, Antonia Chen

8:24am Discussion

8:30am Improved MSC Function on Nanotube Surfaces While Reducing Bacterial

Adhesion and Biofilm Formation (#1262)

David Detwiler

8:36am Halicin Combinations with Conventional Antibiotics are More Effective Than

Monotherapy Against Both Planktonic and Biofilm-Residing Staphylococcus

Aureus (#1239)

Akira Morita, Roman Natoli, Edward Greenfield

8:42am Complete Eradication of Biofilm Using Low Frequency Electromagnetic Force

(EMF) and Antibiotics at MIC (#1232)

Gerhard Maale

8:48am Pulsatile Lavage is Not Enough to Remove Implant Biofilm: The In-Vitro Case For

Sonication Brushing (#1350)

Christina Chao, Tyler Khilnani, Mathias Bostrom, Alberto Carli

8:54am Exploring and Quantifying the Pathogenic Mechanisms Contributing to Osteolysis

in the Context of Prosthetic Joint Infections (PJI) (#1285)

Beethi Sinha, Elizabeth Stewart, Matthew Dietz

9:00am Discussion

SYMPOSIUM #1 Staphylococcus Pathogenesis

Moderator: Brian Conlon, PhD

9:10am Microbial Pathogenesis During Staphylococcus Aureus Osteomyelitis Infections

James Cassat, MD, PhD, Infectious Disease

Vanderbilt University Medical Center, Nashville, TN

Ultrasound-Mediated Drug Delivery to Improve Antibiotic Efficacy Against

Biofilms

Sarah Rowe-Conlon, PhD

UNC School of Medicine, Chapel Hill, NC

Staphylococcus Aureus Bacteremia

Vance Fowler Jr., MD, Infectious Disease

Duke University School of Medicine, Durham, NC

10:10am Break

Visit Exhibitors and e-Posters

Session II CLINICAL STUDIES

Moderators: Laura Certain, MD, PhD, and Matthew Dietz, MD

10:40am International Delphi Consensus on Wound Closure and Dressing Management in

Total Knee and Total Hip Arthroplasty (#1241)

Antonia Chen, Ryan Nunley, Timothy Board, Michael Mont

10:46am Suppressive Antibiotic Therapy in Patients With Prosthetic Joint Infection and

Retained Hardware: How Much is Enough (#1255)

Anne Spichler Moffarah, Jane O'Bryan, Lee Rubin, Marjorie Golden

10:52am Timing of Acute Peri-Prosthetic Joint Infections of Total Knee Arthroplasties does

not Affect Failure Rates of Debridement, Antibiotics, and Implant Retention

(DAIR) Procedure (#1260)

Andrew Frear, Shaan Sadhwani, Anthony Kamson, Christian Cisneros, Richard

Chao, Muhammad Feroze, Clair Smith, Neel Shah, Kenneth Urish

10:58am Timing from Admission to Debridement, Antibiotic and Implant Retention

(DAIR) Affects Treatment Success in Total Knee Arthroplasty Prosthetic Joint

Infection (#1359)

Samuel Morgan, Hesham Abdelbary, George Grammatopoulos, Simon Garceau

11:04am Discussion

11:10am Rifampin Therapy in Prosthetic Joint Infections - A Retrospective Study of Barriers

to Therapy Initiation and Completion in Guideline Indicated Patients (#1267)

David Kugelman, Justin Leal, Sharrieff Shah, Amy Mackowiak, Rebekah Wrenn,

Thorsten Seyler, Jessica Seidelman

11:16am Initial Success of Seven-Day Intra-Articular Antibiotic Irrigation for the

Treatment of Chronic Periprosthetic Joint Infection: Results from Two Prospective

Randomized Comparative Studies (#1341)

Bryan Springer, Carlos Higuera Rueda, Brian De Beaubien, Kevin Warner, Andrew Glassman, Hari Parvataneni, Kenneth Urish, Edward Stolarski,

Nicolas Piuzzi

11:22am Unsupervised Machine Learning Can Group Synovial Fluid Samples into Disease-

Relevant Clusters: AI Diagnosis is Near (#1295)

Van Thai-Paquette, Krista Toler, Pearl Paranjape, Carl Deirmengian

11:28am Discussion

SYMPOSIUM #2 Technology, Innovation, and Regulatory Burden in Musculoskeletal Infections

Moderator: Ken Urish, MD, PhD

11:35am Partnering With Start-Ups And The Journey To FDA Approval

Patrick Treacy, Co-Founder and CEO

Onkos Surgical, Paterson, NJ

Current Challenges And Why The Future Is Brighter – The Business

And Investor Perspective

Nicholas Pachuda, DPM, COO Peptilogics, Pittsburgh, PA

Focusing on a Solution - From Idea to Product

Jude Paganelli, Founder and CTO Osteal Therapeutics, Dallas TX

12:35-1:20pm **Lunch**

Ballroom Foyer Visit Exhibitors and e-Posters

Session III CLINICAL STUDIES

Moderators: Andy Miller, MD, and Carlos Higuera, MD

1:20pm Defining Native Vertebral Osteomyelitis: The Quest for a Unified Diagnostic

Framework Using a Meta-Epidemiological Approach (#1265)

Francesco Petri, Omar Mahmoud, Seyed Mohammad Amin Alavi, Said El Zein,

Jared Verdoorn, Ahmad Nassr, Brett Freedman, Mohammad Murad,

Elie Berbari

1:26pm A Decade of Culture-Negative Native Vertebral Osteomyelitis: Insights from the

Mayo Clinic (#1282)

Rita Igwilo-Alaneme, Said El Zein, Ryan Khodadadi, Francesco Petri,

Omar Mahmoud, Elie Berbari

1:32pm The Diagnostic Accuracy of Molecular Diagnostic Techniques in The Diagnosis

of Native Vertebral Osteomyelitis: A Systematic Review and Meta-Analysis (#1275) *Omar Mahmoud, Francesco Petri, Said El Zein, Jared Verdoorn, Audrey Schuetz,*

Mohammad Murad, Ahmad Nassr, Elie Berbari

1:38pm Assessment of Periprosthetic Joint Infection in Revision Shoulder

Arthroplasty (#1308)

Mark Cullen, Tom Doyle, Mikhail Bethell, Samuel Lorentz, Bryan Crook, Eoghan Hurley, Thorsten Seyler, Oke Anakwenze, Christopher Klifto

1:44pm Discussion

1:50pm A Comparative Analysis of 1.5-Stage and 2-Stage Revision for Periprosthetic Joint

Infection after Total Hip Arthroplasty: Is 1.5-Stage Really Equivalent? (#1247) Shayan Hosseinzadeh, Katherine Rajschmir, Jesus Villa, Jorge Manrique,

Aldo Riesgo, Carlos Higuera

1:56pm Lower Reported Success Rate of 2-Stage Revision for Total Hip Arthroplasty

at a Prosthetic Joint Infection Specialty Referral Center: Treating "The Worst

of the Worst" (#1355)

Nicholas Tubin, **Hesham Abdelbary**, George Grammatopoulos, Paul Beaule,

Simon Garceau

2:02pm Utilization of Dalbavancin for Periprosthetic Joint Infections: A Single Institution

Experience in North America (#1256)

Peter Hsiue, Mia Fowler, Shay Warren, Michael Henry, Andy Miller, Alberto Carli

2:08pm Discussion

SYMPOSIUM #3 Challenging Musculoskeletal Infection Cases – An interactive Discussion

Panelists: Cezarina Mindru, MD, Jenny Aronson, MD,

Carlos Higuera, MD, Derek Amanatullah, MD

2:15pm Case Presentations

Poorani Sekar, MD, Infectious Disease University of Iowa, Iowa City, IA

3:15pm Break **Visit Exhibitors and e-Posters** Session IV **BASIC SCIENCE** Moderators: Poorani Sekar, MD, and Johannes Plate, MD, PhD 3:45pm Enhancing Predictive Precision: Onodera™s Prognostic Nutritional Index Outperforms Serum Albumin in Predicting Infection Risk After TKA (#1343) Alisina Shahi, Kenneth Mathis, David Rodriguez-Ouintana, Ali Oliashirazi, Adam Freedhand, Robert Frangie 3:51pm Efficacy and Limitations of a Web-Based Septic Arthritis Calculator in Urban Trauma Care (#1276) Ryan Serbin, Joseph Burger, Sarah Welch, Ashley Duncan, Susan Odum, Meghan Wally, William Lack, Madhav Karunakar, Rachel Seymour 3:57pm Bacteriophage Dosing and its Effect on Bacterial Suppression in a Staphylococcus Epidermidis Model: An In Vitro Study (#1245) Jason Young, Mohamad Shariati, Ahmad Razavi, Ara Nazarian, Edward Rodriguez, Mononuclear Phagocyte Gene Expression Suppresses the Neutrophil Response and 4:03pm May Obscure the Accurate Diagnosis Of Infection (#1225) Derek Amanatullah, Robert Manasherob, David Lowenberg, William Maloney, Stuart Goodman 4:09pm Assessment Of Implant-Associated Host Cell Response Reveals Distinct Immune Cell Populations (#1286) Bailey Fearing, Sarah Romereim, Matthew Smykowski, Susan Odum, Rachel Seymour, Joseph Hsu Discussion 4:15pm 4:25pm Optimal Duration of Antibiotic Holiday Prior to Reimplantation in Two-Stage Exchange Arthroplasty for Periprosthetic Joint Infection -- MSIS Evidence

Based Committee Project

Elie Ghanem, Kyle Cichos, Jakrapun Pupaibool, Jesus Villa, Alexandra Hohmann, Yale Fillingham, Emily Leary, Craishun Hart,

Carlos Higuera

4:35pm Live Survey of the MSIS

Brian Klatt, MD / Antonia Chen, MD

6:00pm **President's Reception**

> Cocktails and Dinner Buffet **Dress: Business Casual**

Washington Duke Hotel-Ambassdor Ballroom

Saturday, August 3, 2024

Duke Ballroom

6:30-8:30am **Breakfast**

Marketplace Visit Exhibitors and e-Posters

7:00-7:30am

Duke Ballroom

MSIS Business Meeting (MSIS Members only)

7:30am Podcast Update

Jessica Seidelman, MD, and Johannes Plate, MD, PhD

7:40am The Importance of Collaborative Research

Jessica Seidelman, MD, and Sandy Nelson, MD

SYMPOSIUM #4 Health Care Policy in MSK Infections

Moderator: Antonia Chen, MD

7:50am Racial Disparities and Access to Care Challenges In MK Infections

Christian Pean MD, MS, Orthopaedic Trauma Surgeon Duke University School of Medicine, Durham, NC

Is it Time to Rethink – An Attempt to Change the Approach To PJI

Tom Fehring, MD, Orthopaedic Surgeon

OrthoCarolina, Charlotte, NC

Together for Better Outcomes – Collaborative Efforts in PJI

William Jiranek, MD, Orthopaedic Surgeon

Duke University School of Medicine, Durham, NC

Session V CLINICAL STUDIES

Moderators: James Cassat, MD, and Jeremy Shaw, MD

8:50am Applications and Outcomes of Physician-Directed Antibiotic-Loaded Cement and

Calcium Sulfate in Orthopaedic Surgeries: A Retrospective Study (#1280)

Bailey Fearing, Sarah Romereim, Komi Afetse, Elaina Ball, Ziqing Yu, Benjamin

Averkamp, Rodney Arthur, Rachel Seymour, Joseph Hsu

8:56am Evaluating the Safety and Efficacy of Low-dose Chlorhexidine Gluconate

Irrigation for Open Fracture Management (#1324)

Kyle Auger, Ian Hong, Nicole Badalyan, Christian Zapf, Daniel Dziadosz,

Frank Liporace, Richard Yoon, Jaclyn Jankowski

9:02am Does Prophylactic Antibiotic Strategy Affect Outcomes of Type III

Open Fractures? (#1235)

Joseph Cohen, Hobie Summers, Robert Hand, Aaron Hoyt, Andrew Marten,

Carlo Eikani, Ashley Levack

9:08am Plasma Microbial Cell-free DNA Next-Generation Sequencing can be a Useful Diagnostic Tool in Patients with Osteoarticular Infections (#1271)

Francesco Petri, Omar Mahmoud, Said El Zein, Omar Abu Saleh, Elie Berbari

9:14am Discussion

9:20am Infectious Diseases Pharmacists Review of Post-Discharge Musculoskeletal

Infection Microbiology Results (#1283)

Margaret Pertzborn, Amy Van Abel, Kristin Cole, Trudi Lane, Douglas Osmon, Diana Schreier, Hilary Teaford, Courtney Willis, Anna Woods, Christina Rivera

9:26am Comparative Analysis of a Polymerase Chain Reaction Infection Panel Versus

Conventional Culture Techniques in Patients with Presumptive Joint

Infection (#1335)

Anzar Sarfraz, Guiqing Wang, Caitlin Otto, Ran Schwarzkopf, Vinh Pham,

Vinay Aggarwal

9:32am Pediatric Clavicular Osteomyelitis: Radiographic Appearance Guides

Evaluation (#1226) *Jessica D Burns*

9:38am Discussion

9:44am Break

Visit Exhibitors and e-Posters

Session VI CLINICAL SCIENC

Moderators: Aaron Tande, MD, and Thorsten Seyler, MD, PhD

10:00am Longer Antibiotic Duration Is Protective Against Repeated Periprosthetic Joint

Infections (#1229)

Richard Chao, Scott Rothenberger, Andrew Frear, Brian Hamlin, Brian Klatt,

Neel Shah, Kenneth Urish

10:06am Outcome of Debridement and Implant Retention for Treatment of Late Acute

Hematogenous Periprosthetic Joint Infections (#1240)

Thomas Fehring, Michael McHugh, Jeffrey Frandsen, Jesse Otero

10:12am 1 To 5 Years of Follow-Up May Capture Most Total Arthroplasty Acute

Periprosthetic Joint Infections After Debridement Antibiotics and Implant

Retention (#1228)

Richard Chao, Scott Rothenberger, Johanna Plates, Brian Klatt, Neel Shah,

Kenneth Urish

10:18am Absolute Neutrophil Count in Synovial Fluid: A Promising Biomarker for

Diagnosing Periprosthetic Joint Infections (#1346)

Alisina Shahi, Kenneth Mathis, David Rodriguez- Quintana, Adam Freedhand,

Ali Oliashirazi

10:24am Discussion

10:30am Routine Psycho-Periprosthetic Joint Infection Assessment Highlights an Alarming

Prevalence of Anxiety and Depression During PJI Treatment (#1354)

Alberto Telias, Sophie Henke Tarnow, George Grammatopoulos, Hesham Abdelbary, Paul Beaule, Amanda Pontefract, Patricia Poulin, **Simon Garceau**

10:36am Periprosthetic Joint Infection Mortality Following Total Knee Arthroplasty

Surpasses 5-Year Rates for Common Cancers: A Meta-Analysis (#1243)

Michael Ramos, Brian Benyamini, Varun Kompala, Shujaa Khan, Alison Klika,

Kyle Kunze, Anabelle Visperas, Nicolas Piuzzi

10:42am Mortality Associated with Periprosthetic Joint Infection After Total Hip

Arthroplasty: Comparable to 5-Year Rates of Common Cancers (#1244)

Michael Ramos, Brian Benyamini, Varun Kampala, Shujaa Khan, Alison Klika,

Kyle Kunze, Anabelle Visperas, Nicolas Piuzzi

10:48am Discussion

SYMPOSIUM #5 Osteomyelitis

Moderators: Sandy Nelson, MD, and Malcolm DeBaun, MD

10:55am The Role of Imaging in the Diagnosis of Osteomyelitis

Charles Spritzer, MD, Radiologist

Duke University School of Medicine, Durham, NC

A Surgical Approach to the Treatment of Osteomyelitis in Orthopaedic Trauma

Malcolm DeBaun, MD, Orthopaedic Surgeon Duke University School of Medicine, Durham, NC

Bone Appétit: Mechanisms of Bone Loss in Staphylococcus Aureus Osteomyelitis

James Cassat, MD, PhD, Infectious Disease

Vanderbilt University Medical Center, Nashville, TN

12:15pm Introduction of Incoming President – Andy Miller, MD

Thorsten Seyler, MD, PhD
Presentation of Awards

Brian Klatt, MD

Jon T. Mader Award – Best Clinical Presentation

Jeanette Wilkins Award- Best Basic Science Presentation

Poster Award- Best Poster

Closing Remarks -- Drawing for Ipad

Thorsten Seyler, MD, PhD

12:30pm Meeting Adjourn

ePosters

Monitor 1	
24-AEP-1279	Prosthetic Joint Infection after Hip Arthroplasty Can Be Accurately Identified in Veterans Health Administration (VHA) Data Jessica O'Neil, Yixuan Pei, Craig Newcomb, Randi Silibovsky, Judith O'Donnell, Charles Nelson, Evelyn Hsieh, Joseph King, Vincent Lo Re, Erica Weinstein
24-AEP-1274	KLIC and CRIME-80 Scores Are Not Predictive of Treatment Outcome After Prosthetic Joint Infection with Retained Hardware Jane O'Bryan, Marjorie Golden, Anne SpichlerMoffarah, Lee E Rubin
24-AEP-1348	Next Generation Sequencing Test for Diagnosing Periprosthetic Joint Infection Is Not Affected by Premature Therapeutic Antibiotic Administration Alisina Shahi, Kenneth Mathis, David Rodriguez, Adam Freedhand, Ali Oliashirazi
24-AEP-1259	Temporal Trends in Postoperative Oral Antibiotic Prophylaxis and Infections for Outpatient Total Hip and Knee Arthroplasty from 2015-2020 Priya Singh, Jiwoo Park, Avanish Yendluri, Kyle Rako, Brocha Z Stern, Jashvant Poeran, Darwin D Chen, Calin S Moucha, Brett L Hayden
24-AEP-1302	One-Year Efficacy and Safety Demonstrated in the Treatment of Acute Prosthetic Knee Infection, using PLG0206 a novel Antimicrobial Peptide Matthew J Dietz, Nicolas S Piuzzi, Antonia F Chen, Javad Parvizi, Edward J Stolarski, Christopher E Pelt, David Rodriguez-Quintana, Barbara W Trautner, Despina X Dobbins
24-AEP-1227	Pitfalls and Potential in Quality Metrics for Prosthetic Joint Infection Diagnosis Andy O Miller, Alberto V Carli, Amy Chin, Diana Chee, Sam Simon, Catherine Maclean
24-AEP-1250	Diagnosis of Periprosthetic Joint Infection: The Impact of Intraoperative Direct Sonication on Time to Positivity Wenbo Mu, Javad Parvizi, Li Cao
24-AEP-1288	Impact of immunomodulatory medications on preoperative laboratory assessment for periprosthetic joint infection: A case series study. Fowler J Mia, Edward H Grabov, Shay I Warren, Michael Henry, Andy O Miller, Elizabeth Robilotti
24-AEP-1257	How Often Bacteraemia Occurs in Patients with Chronic Periprosthetic Joint Infectiona prospective, two-arm cohort study <i>Baochao Ji, Li Cao</i>
Monitor 2	

Monitor 2

24-AEP-1291 Combined Orthopaedic and Infectious Disease Periprosthetic Joint Infection

Clinic: A Survey Study

Eric Dilbone, Justin Leal, Edward Hendershot, Erin Gettler, Jessica Seidelman, William Jiranek

24-AEP-1296	The Alpha Defensin Lateral Flow (AD-LF) Test Maintains Performance Through Standardized User and Environmental Stress Scenario Testing John Miamidian, Subramanium Somasundaram, Kenny Tran, Krista Toler, Carl Deirmengian
24-AEP-1304	C. Difficile infection prior to total knee arthroplasty independently increases the risk of prosthetic joint infection <i>Henry D Clarke, Jens T Verhey, David G Deckey, Mark J Spangehl, Joshua S Bingham</i>
24-AEP-1311	Total Knee Arthroplasty Conversion May be Superior to Debridement and Implant Retention in Treating Infected Unicompartmental Knee Arthroplasty Kranti V Peddada, Joshua Davis, Noelle E Wojciechowski, Antonia F Chen, Adam S Olsen
24-AEP-1317	Intrawound Antiseptics Do Not Decrease the Risk of Periprosthetic Joint Infection Following Primary Arthroplasty for Femoral Neck Fracture Elizabeth Carlino, Arthroplasty For Hip Fracture Consortium, Kyle H Cichos
24-AEP-1353	Longer Persistent Wound Leakage is Associated with Increased Treatment Failure During Treatment of Prosthetic Joint Infections Alberto Telias, Sanjula Costa, Paul Beaule, Hesham Abdelbary, George Grammatopoulos, Simon Garceau
24-AEP-1301	Discrepancies in PJI Criteria Reporting and Use: A Call for CLEAR-Dx-PJI Standard Alexandra L Hohmann, Cristian A DeSimone, Natalie A Lowenstein, Carl A Deirmengian, Yale A Fillingham
s24-AEP-1307	Reimbursement for the Treatment of Periprosthetic Joint Infections of the Knee Declined Significantly Over the Past Twelve Years Sayi P Boddu, David G Deckey, Jack M Haglin, Zachary K Christopher, Mark J Spangehl, Henry D Clarke, Joshua S Bingham
24-AEP-1322	Amphotericin B-Impregnated Antibiotic Spacers a Double-Edged Sword? High Fungal Infection Eradication Rate and Associated AKI in Renal Patients Luke G Menken, Pasquale Gencarelli Jr, Ian S Hong, Christian Zapf, Frank A Liporace, Richard S Yoon, Jaclyn M Jankowski
24-AEP-1329	Outcome of Gram-Negative Periprosthetic Joint Infection after Primary and Revision Total Hip and Knee Arthroplasty Pansachee Damronglerd, Omar M Abu Saleh, Nicholas Bedard, Douglas R Osmon
Monitor 3	
24-AEP-1330	Evaluating the Efficacy of Tobramycin or Gentamicin Spacers in Managing Prosthetic Joint Infections Caused by Pseudomonas aeruginosa, Implications of Changing MIC Breakpoints Pansachee Damronglerd, Omar M Abu Saleh, Nicholas Bedard, Douglas R Osmon
24-AEP-1303	Accuracy of Synovial White Blood Cell Count and Differential in Predicting Failure Following Reimplantation: A Multicenter Analysis Saad Tarabichi, Juan D Lizcano, Elizabeth A Abe, Javad Parvizi, Jason M Jennings, Carlos A Higuera, Paul M Courtney

24-AEP-1345	Rethinking PJI Screening: Unveiling the Limitations of Serum ESR and CRP as Diagnostic Markers Alisina Shahi, Kenneth Mathis, David Rodriguez, Ali Oliashirazi, Adam Freedhand
24-AEP-1316	A Comprehensive Analysis of Synovial Fluid Test Results Across the Range of Red Blood Cell Counts Alex McLaren, Krista Toler, Carl Deirmengian
24-AEP-1325	Low-Dose Chlorhexidine Gluconate versus Saline Wound Irrigation in Primary Total Hip Arthroplasty: A Propensity Score-Matched Analysis McKenzie A Mayer, Ian S Hong, Andrew-Gerard Baddoo, Daniel R Dziadosz, Frank A Liporace, Richard S Yoon, Jaclyn M Jankowski
24-AEP-1326	Low-Dose Chlorhexidine Gluconate Wound Irrigation Reduces Surgical Site Infections Compared to Saline in Primary Total Knee Arthroplasty: A Propensity Score-Matched Analysis Nicole Campbell, Ian S Hong, Christian Zapf, Daniel R Dziadosz, Frank A Liporace, Richard S Yoon, Jaclyn M Jankowski
24-AEP-1320	Impact of Antibiotic-laden Cement on Organism Resistance in Acute Periprosthetic Joint Infections Mohammed Hammad, Mia J Fowler, Elizabeth Robilotti, Michael Henry, Andy Miller, Alberto V Carli
24-AEP-1336	Superimposed Crystalline Arthropathy in Total Joint Arthroplasty: Impact on Periprosthetic Joint Infection Workup Anzar Sarfraz, Casey Cardillo, Shiv Lamba, Harrison Potak, Ran Schwarzkopf, VInay Aggarwal
24-AEP-1323	Low-Dose Chlorhexidine Gluconate Irrigation for Hip Fractures Undergoing Arthroplasty is Associated with Low Surgical Site Infections John Flacco, Matthew T Bernhard, Christian Zapf, Ian S Hong, Andrew-Gerard Baddoo, Amish Naik, Daniel R Dziadosz, Frank A Liporace, Richard S Yoon, Jaclyn M Jankowski
24-AEP-1338	Impact of Spacer Constraint on Outcomes in Two-Stage Exchange Total Hip Arthroplasty Hayley E Raymond, Anzar Sarfraz, Harrison Potak, Braden V Saba, Joshua C Rozell, Ran Schwarzkopf, Vinay K Aggarwal
Monitor 4	
24-AEP-1281	Metformin use in a Prosthetic Joint Infection Model: Efficacy and Impact on Mitochondria Nour Bouji, Elizabeth Stewart, Ethan M Meadows, John Hollander, Matthew J Dietz
24-AEP-1344	Pre-treating PJI with systemic antibiotics decreases tissue and implant bacterial counts: results from an in vivo model Christina A Chao, Tyler K Khilnani, Xu Yang, Mathias Bostrom, Alberto V Carli
24-AEP-1278	Rapid Reduction in Porcine Dermal Staph. Aureus Infection Using Combination Nanosecond Pulsed Electric Fields and Antibiotics Alan M Kraft

24-AEP-1284	Characterization of a Transtibial Amputation Model of Osseointegrated Implant Infection Bailey Fearing, Sarah Romereim, Matthew Smykowski, Jana Davis, Ryan Serbin, Nainisha Chintalapudi, Rachel B Seymour, Joseph R Hsu
24-AEP-1331	Understanding Orthopaedic Infections: A Conceptual Approach Gregory Laborde
24-AEP-1318	Enhancing Vancomycin Elution in PMMA Cement: The Impact of Mixing Order and Aminoglycoside Addition Across Different Brands and Viscosities Mohammed Hammad, Christina A Chao, Suenghwan Jo, Mathias Bostrom, Alberto V Carli
24-AEP-1340	Measuring the Quality of Periprosthetic Joint Infection Diagnosis: An Administrative Database Study Daniel B Buchalter, Andy Miller, Shinhye Kim, Edward H Grabov, Diana Chee, Amy Chin, Alexander S McLawhorn, Catherine Maclean
24-AEP-1351	Twelve-Year National Assessment of Trends in the Development of Prosthetic Joint Infections of the Hip and Knee Sayi P Boddy, David G Deckey, Zachary Christopher, Mark J Spangehl, Henry D Clarke, Joshua S Bingham
24-AEP-1223	Detecting Contamination Events during Robotic Total Joint Arthroplasty Jonathan J Lee, Kingsley A Oladeji, Andrea K Finlay, Robert Manasherob, Derek F Amanatullah
24-AEP-1294	Exploring the Diagnostic Utility of Leukocyte Esterase for Exclusion of Periprosthetic Joint Infections in Patients Presenting with Culture-Negative Results Alisina Shahi, Adam Freedhand, Ali Oliashirazi, David Rodriguez-Quintana, Kenneth B Mathis
24-AEP-1339	Impact of Spacer Constraint on Outcomes in Two-Stage Exchange Revision Total Knee Arthroplasty Anzar Sarfraz, Muhammad A Haider, Mackenzie A Roof, Braden V Saba, Joshua C Rozell, Ran Schwarzkopf, Vinay Aggarwal
Monitor 5	
24-AEP-1249	Coccidioidal vertebral osteomyelitis: a 10-year descriptive study Sona Wolf, Fariba Donovan, Jacob Robishaw-Denton, Talha Riaz
24-AEP-1293	Oritavancin for the Treatment and/or Suppression of Bone and Joint Infections Caused by Vancomycin-Resistant Enterococci: A Real-World Observational Cohort Study Laura Damioli, Kyle C Molina, Brandon R Flues, Eugene W Liu, Anna Y Zhou, Abdulwhab Shremo Msdi, Caleb C Mcleod, Saagar Akundi, Mark Redell, Martin Krsak
24-AEP-1231	Generative artificial intelligence performs well in assessing the clarity of definitions of variables in periprosthetic joint infection studies Bettina Gabrielle Tenorio, Melody Hope Lee Yu, Angelica Bernadette Deslate, Don Bambino Geno Tai

24-AEP-1319	Blood and Biopsy Cultures may Differ and are Affected by Antibiotic Administration in Pyogenic Spinal Infections John J Pisquiy, Halee N Sowinski, Christopher Wilson, Tyler E Drummond, Ashley Gall, Joseph C Chavarria, John C France
24-AEP-1347	Combined Surgical Cure of Pelvic Osteomyelitis: A Preliminary Report Jenny R Aronson, David Lowenberg
24-AEP-1342	Radiographic Soft Tissue Thickness is not a Risk Factor for Infection after Primary Total Ankle Arthroplasty Kevin A Wu, Albert T Anastasio, Alexandra N Krez, Katerine M Kutzer, James K DeOrio, Samuel B Adams, Mark E Easley
24-AEP-1269	Eczema is Not Associated with Postoperative Infection Following Common Orthopedic Knee Surgeries Olivia C Tracey, Ruth H Jones, Akshitha Adhiyaman, Emilie Lijesen, Daniel W Green, Moira M McCarthy, Andy O Miller, Peter D Fabricant
24-AEP-1236	Autofluorescence Imaging for Stage 4 Chronic Wounds Reveals Improved Bacterial Clearance With Jet Lavage And Combined Antiseptic Irrigation <i>James B Stiehl</i>