



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) <i>David Detwiler</i>
8:36am	Halicin Combinations with Conventional Antibiotics are More Effective Than Monotherapy Against Both Planktonic and Biofilm-Residing Staphylococcus Aureus (#1239) <i>Akira Morita, Roman Natoli, Edward Greenfield</i>
8:42am	Complete Eradication of Biofilm Using Low Frequency Electromagnetic Force (EMF) and Antibiotics at MIC (#1232) <i>Gerhard Maale</i>
8:48am	Pulsatile Lavage is Not Enough to Remove Implant Biofilm: The In-Vitro Case For Sonication Brushing (#1350) <i>Christina Chao, Tyler Khilnani, Mathias Bostrom, Alberto Carli</i>
8:54am	Exploring and Quantifying the Pathogenic Mechanisms Contributing to Osteolysis in the Context of Prosthetic Joint Infections (PJI) (#1285) <i>Beethi Sinha, Elizabeth Stewart, Matthew Dietz</i>
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) <i>Antonia Chen, Ryan Nunley, Timothy Board, Michael Mont</i>
10:46am	Suppressive Antibiotic Therapy in Patients With Prosthetic Joint Infection and Retained Hardware: How Much is Enough (#1255) <i>Anne Spichler Moffarah, Jane O'Bryan, Lee Rubin, Marjorie Golden</i>

10:52am	<p>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)</p> <p><i>Andrew Frear, Shaan Sadhwani, Anthony Kamson, Christian Cisneros, Richard Chao, Muhammad Feroze, Clair Smith, Neel Shah, Kenneth Urish</i></p>
10:58am	<p>Timing from Admission to Debridement, Antibiotic and Implant Retention (DAIR) Affects Treatment Success in Total Knee Arthroplasty Prosthetic Joint Infection (#1359)</p> <p><i>Samuel Morgan, Hesham Abdelbary, George Grammatopoulos, Simon Garceau</i></p>
11:04am	Discussion
11:10am	<p>Rifampin Therapy in Prosthetic Joint Infections - A Retrospective Study of Barriers to Therapy Initiation and Completion in Guideline Indicated Patients (#1267)</p> <p><i>David Kugelman, Justin Leal, Sharrieff Shah, Amy Mackowiak, Rebekah Wrenn, Thorsten Seyler, Jessica Seidelman</i></p>
11:16am	<p>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)</p> <p><i>Bryan Springer, Carlos Higuera Rueda, Brian De Beaubien, Kevin Warner, Andrew Glassman, Hari Parvataneni, Kenneth Urish, Edward Stolarski, Nicolas Piuze</i></p>
11:22am	<p>Unsupervised Machine Learning Can Group Synovial Fluid Samples into Disease-Relevant Clusters: AI Diagnosis is Near (#1295)</p> <p><i>Van Thai-Paquette, Krista Toler, Pearl Paranjape, Carl Deirmengian</i></p>
11:28am	Discussion
SYMPOSIUM #2	<p>Technology, Innovation, and Regulatory Burden in Musculoskeletal Infections</p> <p>Moderator: Ken Urish, MD, PhD</p>
11:35am	<p>Partnering With Start-Ups And The Journey To FDA Approval</p> <p>Patrick Treacy, Co-Founder and CEO</p> <p>Onkos Surgical, Paterson, NJ</p> <p>Current Challenges And Why The Future Is Brighter – The Business And Investor Perspective</p> <p>Nicholas Pachuda, DPM, COO</p> <p>Peptilogics, Pittsburgh, PA</p> <p>Focusing on a Solution - From Idea to Product</p> <p>Jude Paganelli, Founder and CTO</p> <p>Osteal Therapeutics, Dallas TX</p>
12:35-1:20pm	Lunch
<i>Ballroom Foyer</i>	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 Beaulé, 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) <i>Alisina Shahi, Kenneth Mathis, David Rodriguez-Quintana, Ali Oliashirazi, Adam Freedhand, Robert Frangie</i>
3:51pm	Efficacy and Limitations of a Web-Based Septic Arthritis Calculator in Urban Trauma Care (#1276) <i>Ryan Serbin, Joseph Burger, Sarah Welch, Ashley Duncan, Susan Odum, Meghan Wally, William Lack, Madhav Karunakar, Rachel Seymour</i>
3:57pm	Bacteriophage Dosing and its Effect on Bacterial Suppression in a Staphylococcus Epidermidis Model: An In Vitro Study (#1245) <i>Jason Young, Mohamad Shariati, Ahmad Razavi, Ara Nazarian, Edward Rodriguez</i>
4:03pm	Mononuclear Phagocyte Gene Expression Suppresses the Neutrophil Response and May Obscure the Accurate Diagnosis Of Infection (#1225) <i>Derek Amanatullah, Robert Manasherob, David Lowenberg, William Maloney, Stuart Goodman</i>
4:09pm	Assessment Of Implant-Associated Host Cell Response Reveals Distinct Immune Cell Populations (#1286) <i>Bailey Fearing, Sarah Romereim, Matthew Smykowski, Susan Odum, Rachel Seymour, Joseph Hsu</i>
4:15pm	Discussion
4:25pm	Optimal Duration of Antibiotic Holiday Prior to Reimplantation in Two-Stage Exchange Arthroplasty for Periprosthetic Joint Infection --MSIS Evidence Based Committee Project <i>Elie Ghanem, Kyle Cichos, Jakrapun Pupaibool, Jesus Villa, Alexandra Hohmann, Yale Fillingham, Emily Leary, Craishun Hart, Carlos Higuera</i>
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

Marketplace

Breakfast

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) <i>Francesco Petri, Omar Mahmoud, Said El Zein, Omar Abu Saleh, Elie Berbari</i>
9:14am	Discussion
9:20am	Infectious Diseases Pharmacists Review of Post-Discharge Musculoskeletal Infection Microbiology Results (#1283) <i>Margaret Pertzborn, Amy Van Abel, Kristin Cole, Trudi Lane, Douglas Osmon, Diana Schreier, Hilary Teaford, Courtney Willis, Anna Woods, Christina Rivera</i>
9:26am	Comparative Analysis of a Polymerase Chain Reaction Infection Panel Versus Conventional Culture Techniques in Patients with Presumptive Joint Infection (#1335) <i>Anzar Sarfraz, Guiqing Wang, Caitlin Otto, Ran Schwarzkopf, Vinh Pham, Vinay Aggarwal</i>
9:32am	Pediatric Clavicular Osteomyelitis: Radiographic Appearance Guides Evaluation (#1226) <i>Jessica D Burns</i>
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) <i>Richard Chao, Scott Rothenberger, Andrew Frear, Brian Hamlin, Brian Klatt, Neel Shah, Kenneth Urish</i>
10:06am	Outcome of Debridement and Implant Retention for Treatment of Late Acute Hematogenous Periprosthetic Joint Infections (#1240) <i>Thomas Fehring, Michael McHugh, Jeffrey Frandsen, Jesse Otero</i>
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) <i>Richard Chao, Scott Rothenberger, Johanna Plates, Brian Klatt, Neel Shah, Kenneth Urish</i>
10:18am	Absolute Neutrophil Count in Synovial Fluid: A Promising Biomarker for Diagnosing Periprosthetic Joint Infections (#1346) <i>Alisina Shahi, Kenneth Mathis, David Rodriguez- Quintana, Adam Freedhand, Ali Oliashirazi</i>
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 Beaulé, 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 Piuze*
- 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 Piuze*
- 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 Piuze, 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 Infection --a prospective, two-arm cohort study
Baochao Ji, Li Cao

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, Subramaniam 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
Henry D Clarke, Jens T Verhey, David G Deckey, Mark J Spangehl, Joshua S Bingham
- 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 Beaulé, 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, Shinye 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 Coccidioides 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, Hallee 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
James B Stiehl