



Musculoskeletal Infection Society
31st Annual Open Scientific Meeting
August 6-7, 2021
Fort Lauderdale, FL and Virtually

Agenda

All times noted are EASTERN DAYLIGHT TIME

Friday, August 6, 2021

Caribbean Ballroom

7:00am **Registration Opens**

7:00–8:00am **Breakfast**

Foyer of Caribbean Ballroom, seating available outside on the Ocean Terrace

Visit Exhibitors and e-Posters

8:00-8:14am **Welcome, Disclosures**

Presentation of the George C. Cierny, III, M.D. Memorial Award

Angela Hewlett, MD, MSIS President

Abstract Session I: Epidemiology and Prevention

Moderators: Dr. Abinash Virk, Dr. Alberto Carli

8:15-8:21am Dilute Povidone-Iodine Irrigation Reduces the Rate of Periprosthetic Joint Infection

Following Hip and Knee Arthroplasty: An Analysis of 31,331 Cases

Graham Goh, Noam Shohat

8:22-8:28am History of COVID-19 Was Not Associated with Length of Stay or In-Hospital

Complications After Elective Lower Extremity Joint Replacement

Anna Jungwirth-Wienberger, Friedrich Boettner, Milan Kapadia, Alioune

Diane, Yu-Fen Chiu, Stephen Lyman, Mark Fontana, **Andy Miller**

8:29-8:35am Racial disparities in the risks of septic and aseptic revision total knee replacements

Anne Bass, Huong Do, Bella Mehta, Stephen Lyman, Serene Mirza, Michael

Parks, Mark Figgie, Lisa Mandl, **Susan Goodman**

8:36-8:42am Malnutrition Predicts Failure of Two-Stage Exchange for Chronic Periprosthetic
Joint Infection

Michael Valenzuela, Taylor Rowe, Susan Odum, Thomas Fehring, Jesse Otero,

Cody Green

8:43-8:53am	Discussion
8:54-9:00am	When Should We Change Gloves? Surgical Gloves Have High Contamination Rates <i>Emanuele Chisari, P Maxwell Courtney, Javad Parvizi, Chad Krueger, Leanne Ludwick</i>
9:01-9:07am	Aspirin thromboprophylaxis following primary total knee arthroplasty is associated with a lower rate of early prosthetic joint infection compared with other chemoprophylactic agents <i>Utkarsh Anil, Noah Kirschner, Greg Teo, Katherine Lygrisse, Ran Schwarzkopf, William Long, Chelsea Sicat</i>
9:08-9:14am	Extended Oral Antibiotic Prophylaxis Does Not Alter Rates of Antimicrobial Resistance in Organisms Causing Periprosthetic Joint Infection Following Primary and Aseptic Revision Total Joint Arthroplasty <i>Poorani Sekar, Kunatum Prasidhrathsint, Nicholas Bedard, Christopher Carender</i>
9:15-9:21am	Extended Oral Antibiotics Increase Bacterial Resistance in Patients who Fail Two-Stage Exchange for Periprosthetic Joint Infection <i>Mick Kelly, Brenna Blackburn, Jeremy Gililland, Laura Certain</i>
9:22-9:32am	Discussion
9:33-9:45am	Break Visit Exhibitors and ePosters
SYMPOSIUM #1:	Updates in the Management of Complicated Bone and Joint Infections Moderators: Dr. Andy Miller, Dr. Kevin Perry
9:45-10:05am	Updates in the use of articulating spacers Curtis Hartman MD, Orthopaedic Surgeon University of Nebraska, Omaha, NE
10:06-10:26am	Antibiotic loaded beads and cement spacers Christina O'Connor PharmD, BCPS Mayo Clinic, Rochester, MN
10:27-10:47am	Intraosseous vancomycin Bryan Springer MD, Orthopaedic Surgeon OrthoCarolina, Charlotte, NC
10:48-11:08am	Discussion

Abstract Session II: Basic Science

Moderators: Dr. Yale Fillingham, Dr. Laura Certain

- 11:09-11:15am Contact with Blood Does not Affect Bactericidal Properties of Povidone-Iodine
*Emanuele Chisari, Chad Krueger, Javad Parvizi, **Ilan Small***
- 11:16-11:22am PhotothermAA gel decreases biofilm burden in a rabbit model of Periprosthetic Joint Infection
*Daniel Santana, Minseon Ju, Nathalie Milbrandt, Yu Hsin Tsai, Nicolas Piuzzi, Alison Klika, Anna Cristina Samia, Carlos Higuera-Rueda, **Anabelle Visperas***
- 11:23-11:29am Immune Response to Persistent Staphylococcus aureus Periprosthetic Joint Infection (PJI) in a Mouse Tibial Implant Model
*Yunwei Xia, Branden Sosa, Nirupama Nishtala, Tania Pannellini, Mathias Bostrom, Alberto Carli, Xu Yang, Lionel Ivashkiv, **Upneet Sokhi***
- 11:30-11:36am Novel Antibody Disrupts Biofilm Bacteria in a Mouse Model of Spinal Implant Infection
*Zachary Burke, Benjamin Kelley, Zeinab Mamouei, Micah Ralston, Amr Turkmani, Alexandra Stavarakis, Nicholas Bernthal, **Christopher Hart***
- 11:37-11:47am **Discussion**
- 11:48-11:54am Bacteriophage is More Effective in Treating MRSA Biofilm on Plasma Spray Titanium Surface Compared to Vancomycin
*Hesham Abdelbary, **Mariam Taha***
- 11:55-12:01pm Rapid synovial fluid-induced aggregation of Staphylococcus aureus occurs across clinical isolates and is mechanistically independent of biofilm formation
*Peter Burbach, Paul Stoodley, Kenneth Urish, Mostafa Eltobgy, **Amelia Staats***
- 11:02-12:08pm Cannabidiol Failed to Inhibit Staphylococcus aureus Infection in an in vivo Mouse Model of Spinal Implant Infection
*Christopher Hart, Micah Ralston, Amr Turkmani, Michael Arnold, Michael Le, Nicholas Bernthal, **Zeinab Mamouei***
- 12:09-12:15pm Halicin: a novel antibacterial agent active on Staphylococcus aureus biofilms
*Stefanie Simpson, Christopher Collier, Roman Natoli, Mizuho Kittaka, Edward Greenfield, **Shota Higashihira***
- 12:16-12:26pm **Discussion**
- 12:27-1:00pm **Lunch**
Box Lunch, seating available outside on the Ocean Terrace
Visit Exhibitors and ePosters

SYMPOSIUM # 2: Challenging Musculoskeletal Infection Cases

Panelists: Dr. Sandy Nelson, Dr. Javad Parvizi, Dr. Steve Schmitt, Dr. Samir Mehta

1:00-1:10pm	Case #1: presented by	Poorani Sekar MD, Infectious Disease University of Iowa, Iowa City, IA
1:11-1:26pm	Discussion	
1:27-1:37pm	Case #2: presented by	Michael Henry MD, Infectious Disease Hospital for Special Surgery, New York, NY
1:38-1:53pm	Discussion	
1:54-2:04pm	Case #3: presented by	Laura Damioli MD, Infectious Disease University of Colorado, Denver, CO
2:05-2:20pm	Discussion	
2:21-2:31pm	Break Visit Exhibitors and ePosters	

Abstract Session III: Diagnostics

Moderators: Dr. Arvind Nana, Dr. Nicolas Cortes-Penfield

2:32-2:38pm	Sequencing microbial cell-free DNA found in blood plasma enhances current pathogen identification for prosthetic joint infections. <i>Adriana Echeverria, Alberto Carli, Mark Figgie, Thomas Bauer, Barry Brause, Michael Henry, Andy Miller, Michael Cross, Laura Donlin</i>
2:39-2:45pm	Diagnostic Utility of Next Generation Sequencing in PJI <i>Karan Goswami, Javad Parvizi</i>
2:46-2:52pm	EBJIS Definition for Periprosthetic Joint Infection: Questionable Accuracy <i>Emanuele Chisari, Leanne Ludwick, Noam Shohat, Javad Parvizi</i>
2:53-2:59pm	Isothermal Microcalorimetry Improves Accuracy and Time to Diagnosis of Fracture Related Infection <i>Kyle Cichos, Clay Spitler, Jonathan Quade, Michael Johnson, Joseph Johnson, Elie Ghanem</i>
3:00-3:10pm	Discussion
3:11-3:17pm	Application of New Consensus Definition Identifies High Numbers of Fracture Related Infections with Negative Cultures. <i>Kaitlyn Weinert-Stein, Julia Slater, Henry Sagi, Margaret Powers-Fletcher, Federico Palacio</i>
3:18-3:24pm	Joint age, presence of a sinus tract, and revision arthroplasties influence the microbiology of periprosthetic joint infections <i>Don Geno Tai, Robin Patel, Matthew Abdel, Elie Berbari, Aaron Tande</i>

- 3:25-3:31pm Isothermal Microcalorimetry Improves Time to Diagnosis of PJI
Kyle Cichos, Elie Ghanem
- 3:32-3:38pm The immune response to bacterial periprosthetic joint infection is heterogenous within the periprosthetic space and is not dependent on PJI chronicity or culture positivity
Sita Nirupama Nishtala, Upneet Sokhi, Tania Pannellini, Miguel Otero, Lionel Ivashkiv, Mathias Bostrom, Alberto Carli
- 3:39-3:49pm **Discussion**
- SYMPOSIUM # 3 Top Musculoskeletal Infection Papers of 2020-2021**
- 3:50-4:05pm Tom Fehring MD, Orthopaedic Surgeon
OrthoCarolina, Charlotte, NC
- 4:06-4:21pm Aaron Tande MD, Infectious Disease
Mayo Clinic, Rochester, MN
- 4:22-4:37pm **Discussion**
- 4:37pm **Adjourn**
Visit Exhibitors and ePosters
- 6:00pm **Join us for the President's Reception on the *Dunes Terrace***
Cocktails and 'Havana Coast' Buffet Dinner
Dress: Resort Casual

Saturday, August 7, 2021

Caribbean Ballroom

- 7:00-7:45am **MSIS Business Meeting** (MSIS Members only)
- 7:00-8:00am **Breakfast**
Foyer of Caribbean Ballroom, seating available outside at the Ocean Terrace
Visit Exhibitors and ePosters

Abstract Session IV: Clinical Management

Moderators: Dr. Antonia Chen, Dr. Julie Reznicek

- 8:00-8:06am Timing of Antibiotic Initiation in the Treatment of Hip and Knee Septic Arthritis
*Nathan Varady, Vineet Desai, Adam Olsen, Katiri Wagner, Antonia Chen, **Jared Alswang***

8:07-8:13am	<p>Antibiotic-Loaded Calcium Sulfate Beads Do Not Improve Outcomes After Debridement, Antibiotics, and Implant Retention (DAIR): A Matched Case-Control Study</p> <p><i>William Xiang, Chris Jones, Ioannis Gkiatas, Allina Nocon, Nicolas Selemon, Alberto Carli, Peter Sculco, David Tarity</i></p>
8:14-8:20am	<p>Debridement With Antibiotics And Implant Retention: Does Chronicity of Symptoms Matter?</p> <p><i>Allina Nocon, Ioannis Gkiatas, Christopher Jones, Alberto Carli, Peter Sculco, David Tarity</i></p>
8:21-8:27am	<p>Systemic Sepsis Secondary to Acute Periprosthetic Joint Infection: Incidence, Risk Factors and Outcomes of Treatment</p> <p><i>Noam Shohat, Matthew Sherman, Sydney Streicher, Javad Parvizi, Leanne Ludwick</i></p>
8:28-8:38am	Discussion
8:39-8:45am	<p>Are septic-indicated distal femoral replacements more likely to require reoperation and revision than aseptic-indicated DFRs?</p> <p><i>Christopher Rothfus, Ahmed Emara, Alison Klika, Viktor Krebs, Robert Molloy, Carlos Higuera, Nicolas Piuze</i></p>
8:46-8:52am	<p>Positive Cultures in Aseptic Revision Arthroplasty: Are They Truly Contaminants?</p> <p><i>Graham Goh, Samuel Clarkson, Javad Parvizi</i></p>
8:53-8:59am	<p>Acute Kidney Injury Following Resection and Antibiotic-Loaded Spacer Insertion for Periprosthetic Joint Infection</p> <p><i>Graham Goh, Terence Thomas, Conor Drakeley, Ilan Small, Javad Parvizi</i></p>
9:00-9:06am	<p>Fungal and Mycobacterial Cultures Should Not be Routinely Obtained for Diagnostic Work-Up of Patients with Suspected Periprosthetic Joint Infection</p> <p><i>Don Geno Tai, Nancy Wengenack, Robin Patel, Elie Berbari, Matthew Abdel, Aaron Tande</i></p>
9:07-9:17am	Discussion
9:18-9:30am	<p>Break</p> <p>Visit Exhibitors and ePosters</p>

SYMPOSIUM #4: Irrigation Solutions and Local Antibiotic Therapy

Moderators: Dr. Doug Osmon, Dr. Carlos Higuera

9:30-9:50am **Irrigation solutions: Separating science from witchcraft**

Elie Ghanem MD, Orthopaedic Surgeon

University of Alabama, Birmingham, AL

**The use of the vancomycin powder for perioperative infection prevention:
What is the evidence?**

9:51-10:06am **-Pro:** Aldo Riesgo MD, Orthopaedic Surgeon
Cleveland Clinic, Weston, FL

10:07-10:22am **-Con:** Thorsten Seyler, MD, Orthopaedic Surgeon
Duke University, Durham NC

10:23-10:43am **Discussion**

10:44-10:54am **CORR Journal Presentation**

10:55-11:05am **JBJS Journal Presentation**

11:05-11:25am **Introduction of Incoming President: Brian Klatt, MD**

Angela Hewlett, MD

Presentation of Awards

Jon T. Mader Award; Jeanette Wilkins Award; e-Poster Award

Closing Remarks; *Angela Hewlett MD*

11:25am **Adjourn**

Monitor 1

- 21-AEP-880 Characteristics of occult infection with non-union repair in patients without clinical or laboratory signs of infection.
Nihar Shah, Matthew Frederickson, Ramsey S Sabbagh, Evan Dowell, Henry Sagi, Federico Palacio
- 21-AEP-878 Risk Factors and Characteristics of Recalcitrant Osteomyelitis Following Appropriate Initial Surgical and Antibiotic Treatment
Nihar Shah, Arun Kanhere, John Bonamer, Matthew Doyle, Henry Sagi, Federico Palacio
- 21-AEP-876 How does the definition of treatment success affect outcomes following One-Stage and Two-Stage revision surgery for Periprosthetic Joint Infection? A Systematic Review and Meta-Analysis
Eytan Debbi, Tyler Khilnani, Yu-Fen Chiu, Stephen Lyman, Ioannis Gkiatas, Alberto Carli
- 21-AEP-871 Are Routine Intra-operative Cultures Necessary During Revision Shoulder Arthroplasty?
Benjamin Zmistowski, Justin Rabinowitz, Vincent Nguyen, Alexander Aleem
- 21-AEP-864 Survivorship of Culture Negative Debridement Antibiotics and Implant Retention (DAIR) at 2-Years is Better than Culture Positive DAIR Results
Kyle Alpaugh, Ioannis Gkiatas, T. Tarity, Allina Nocon, William Xiang, Thomas Sculco, Peter Sculco, Michael Cross
- 21-AEP-863 Patients with non-Staphylococcal prosthetic joint infections who underwent Debridement Antibiotics and Implant retention (DAIR) and received chronic antibiotic suppression (CAS) were non-significantly less likely to have treatment failure compared to those who did not receive CAS
Poorani Sekar, Rajeshwari Nair, Brice Beck, Bruce Alexander, Kelly Miell, Aaron Tande, Kimberly Dukes, Julia Friberg, Marin Schweizer
- 21-AEP-849 Alpha-Defensin Does Not Provide Additional Benefit over Leukocyte Esterase in the Diagnosis Of Periprosthetic Joint Infection
Emanuele Chisari, Noam Shohat, Steven Yacovelli, Karan Goswami, Yajnesb Vedanaparti, Javad Parvizi
- 21-AEP-848 Next-generation Sequencing is Superior to PCR and Culture for Staphylococcus aureus Screening
Emanuele Chisari, Leanne Ludwick, Karan Goswami, Javad Parvizi
- 21-AEP-841 Repeated 2-stage arthroplasty to treat a failed 2-stage revision for periprosthetic hip or knee infection: A tertiary center experience
Tejbir Pannu, Jesus Villa, Ardalan Sayan, Carlos Higuera, Aldo Riesgo

- 21-AEP-838 Higher Risk of Acute Kidney Injury in Two-Stage versus One-Stage Revision for Periprosthetic Joint Infection: A Randomized Prospective Trial
Michael Valenzuela, Susan Odum, Bryan Springer, Thomas Fehring, Jesse Otero
- 21-AEP-803 Function Evaluation of Spherocentric Total Elbows
Gerhard Maale, Nicole Kennard, Aniruth Srinivasaraghavan, Arianna Mixon
- 21-AEP-800 Topical vancomycin and tobramycin powder for infection prophylaxis in orthopaedic trauma surgery: Economically justifiable?
Gregory Kirchner, Matthew Garner, Nathan Smith, Raymond Kim, Shawn Hines
- 21-AEP-787 Preoperative Risk Factors for Polymicrobial Infection Following Open Fracture
Madeline Lyons, Madeline Tiee, Joseph Cohen, Hobie Summers, Ashley Levack, Garin Hecht Summers

Monitor 2

- 21-AEP-879 Locked Intramedullary Nail Is Effective as a Static Spacer in Periprosthetic Joint Infection Following TKA
Luke Menken, Filippo Romanelli, Jaclyn Jankowski, Frank Liporace, Richard Yoon
- 21-AEP-877 Utility of Magnetic Resonance Imaging in Predicting Failure of DAIR (debridement, antibiotics, and implant retention) for Treatment of Periprosthetic Joint Infection
Alberto Carli, Milan Kapadia, Alissa Burge, Eric Bogner, Peter Sculco
- 21-AEP-869 Do Pre-Reimplantation ESR/CRP Cut offs Guide Decision Making in Prosthetic Joint Infection? Are We Flying Blind?
Nick Johnson, Taylor Rowe, Michael Valenzuela, Gregory Scarola, Thomas Fehring
- 21-AEP-856 Oxidized Zirconium vs Cobalt Chrome for Primary Total Knee Arthroplasty: No Difference in Infection Rates
Anirudh Gowd, Edward Beck, Samuel Rosas, Tianyi Luo, John Matthews, Johannes Plate
- 21-AEP-842 Metal-on-Polyethylene Implants Associated with Higher Risk of PJI versus Ceramic-on-Polyethylene
Emanuele Chisari, Christian Ong, Noam Shohat, Javad Parvizi, Chad Krueger
- 21-AEP-839 Excellent outcome of oral antibiotics for selected patients with bone and joint infection: real-world experience from implementing OVIVA
Jacey Hilbers, Amanda Lang, Mason Halouska, Zachary VanRoy, Angela Hewlett, Nicolas Cortes-Penfield
- 21-AEP-821 Comparison of One Stage versus Two Stage Revisions for Infected Total Knees
Gerhard Maale, Aniruth Srinivasaraghavan, Nicole Kennard, Arianna Mixon

- 21-AEP-818 Prevalence of Fungal Pathogens in Periprosthetic Joint Infections
Paulo Castaneda, Varun Sharma, Carl Deirmengian, Alex McLaren
- 21-AEP-816 Short versus Long Duration of Intravenous Antibiotics in Prosthetic Joint Infections: Systematic Review and Meta-Analysis
Nour Bouji, Sijin Wen, Matthew Dietz
- 21-AEP-813 Non-aspirin thromboprophylaxis is not associated with early prosthetic joint infection in total hip arthroplasty
Vinay Aggarwal, Utkarsh Anil, Noah Kirschner, Greg Teo, Katherine Lygrisse, Ran Schwarzkopf, William Long, Chelsea Sicat
- 21-AEP-811 Comparative Outcomes and Surgical Timing for Operative Fragility Hip Fracture Patients During the COVID-19 Pandemic
Antonia Chen, Katherine Rowe, Kiyung Kim, Nathan Varady, Marilyn Heng, Arvind von Keudell, Michael Weaver, Ayesha Abdeen, Edward Rodriguez
- 21-AEP-793 Autofluorescence Digital Imaging for Diagnosing Chronic Wound Infections: Preliminary Case Series
James Stiehl
- 21-AEP-786 The Fate of Periprosthetic Joint Infection with *Corynebacterium Striatum*: A Rare but Catastrophic Causative Organism
Tejbir Pannu, Jesus Villa, Matan Ozery, Nicolas Piuze, Carlos Higuera, Aldo Riesgo, Alison Klika

Monitor 3

- 21-AEP-890 Novel Activated Zinc Solution More Efficacious Against *Pseudomonas aeruginosa* and MRSA Biofilm Relative to Dilute Chlorhexidine and Povidone Iodine
Derek Hill, Elizabeth Pensler, Andre Castiaux, Paul Attar, Ahmed Siddiqi
- 21-AEP-884 Trend Towards Reduced Early Bacterial Burden With Silicon Nitride vs. Titanium Implants in an in vivo Mouse Model of Periprosthetic Joint Infection
Christopher Hart, Danielle Greig, Zeinab Mamouei, Alan Li, Jeremiah Taylor, chiro Nishimura, Nicholas Bernthal
- 21-AEP-874 Improving the Intraoperative Assessment of Biofilm in Prosthetic Joint Infection
Daniel Santana, Anabelle Visperas, Alison Klika, Carlos Higuera, Nicolas Piuze
- 21-AEP-867 *Candida albicans* Enhances the Growth and Colonization of *Staphylococcus aureus* in a Murine Model of Polymicrobial Implant Infection
Zeinab Mamouei, Christopher Hart, Alan Li, Jeremiah Taylor, Amr Turkmani, Micah Ralston, Nicholas Bernthal

- 21-AEP-865 Revisiting synovial WBC and PMN% thresholds to determine the outcome of reimplantation in two-stage revision
Tejbir Pannu, Jesus Villa, Aldo Riesgo, Carlos Higuera
- 21-AEP-853 Surgical Helmets Harbor Common Pathogens that Can Contaminate the Surgical Field
Emanuele Chisari, Duncan Van Nest, Chad Krueger, Javad Parvizi
- 21-AEP-846 The First-Year Experience of a Regional Referral Center for Periprosthetic Joint Infections
Murillo Adrados, Michael Valenzuela, Gregory Scarola, Thomas Fehring, Jesse Otero
- 21-AEP-845 Bacterial Tropism affects the Success of DAIR for the Treatment of Periprosthetic Joint Infections? A Systematic Review and Metanalysis
Emanuele Chisari, Leanne Ludwick, Jasmine Wang, Edward Schwarz, Javad Parvizi
- 21-AEP-832 Delayed Culture Results after Revision Delays Time to Antimicrobial Treatment
Samuel Clarkson, Emanuele Chisari, Duncan Van Nest, Javad Parvizi
- 21-AEP-830 Multidrug Resistance in PJI Before and After H1N1 Pandemic
Samuel Clarkson, Emanuele Chisari, Leanne Ludwick, Duncan Van Nest, Javad Parvizi
- 21-AEP-828 Can Next-Generation Sequencing Predict Treatment Failure for Periprosthetic Joint Infection?
Samuel Clarkson, Karan Goswami, Javad Parvizi
- 21-AEP-825 Treatment of Antibiotic Resistant and Tolerant Persister and Phoenix Variants in Staphylococcus aureus and Pseudomonas aeruginosa Biofilms
Kelly Moore, Anthony Li, Craig Delury, Phillip Laycock, Sean Aiken, Paul Stoodley
- 21-AEP-795 Culture Negative PJI: Signs & Biomarkers to Guide Diagnosis
Leanne Ludwick, Emanuele Chisari, Kira Smith, Syona Satwah, Javad Parvizi
- 21-AEP-791 Synovial fluid-induced aggregation of Staphylococcus aureus inhibits neutrophil production of reactive oxygen species (ROS)
Amelia Staats, Paul Stoodley, Peter Burbach

Monitor 4

- 21-AEP-866 D-Dimer is a Sensitive Marker for Acute Periprosthetic Joint Infection
Ayden Case, Lefko Charalambous, Trevor Bowman, Ian Duensing, Edward Hendershot, Jessica Seidelman, Thorsten Seyler, William Jiranek
- 21-AEP-851 Molecular Carriers for Local Delivery of Drugs without Systemic Elution of the Drug
Gerhard Maale, Nicole Kennard, Aniruth Srinivasaraghavan, Arianna Mixon

- 21-AEP-844 PJI Could be Result of Damage to Gut Epithelial Barrier
Emanuele Chisari, Karan Goswami, Javad Parvizi
- 21-AEP-843 Biofilm Eradication: What's New in Biofilm Disruption Strategies for Prosthetic Joint Infection
Anabelle Visperas, Daniel Santana, Alison Klika, Carlos Higuera-Rueda, Nicolas Piuzzi
- 21-AEP-840 Killing of a Multispecies Biofilm Using a Gram-Negative and Gram-Positive Targeted Antibiotic
Kelly Moore, Anthony Li, Craig Delury, Phillip Laycock, Sean Aiken, Paul Stoodley
- 21-AEP-837 Methicillin Resistant Staphylococcus aureus is not Always Resistant to Cefazolin
Alex Cappellini, Kimberly Brothers, Kenneth Urish
- 21-AEP-833 The Burden of Obesity is Greater in Septic Revision Arthroplasty Versus Aseptic Revision Arthroplasty
Cody Green, Taylor Rowe, Michael Valenzuela, Susan Odum, Thomas Fehring
- 21-AEP-826 Do Extended Oral Antibiotic Prophylaxis Reduce the Incidence of Periprosthetic Joint Infections After Aseptic Total Hip or Knee Arthroplasty Revisions?
Jesus Villa, Tejbir Pannu, William Braaksma, Carlos Higuera, Aldo Riesgo, Alison Klika
- 21-AEP-823 Multidirectional Instability Following Primary Total Knees Associated with Metal Allergies
Gerhard Maale, Aniruth Srinivasaraghavan, Nicole Kennard, Arianna Mixon
- 21-AEP-815 Improved Complication Rates Following Total Hip and Knee Arthroplasty in Patients with Treated Hepatitis C
Kenneth Schmidt, Rebecca Chun
- 21-AEP-814 Improved Outcomes with Inpatient Antibiotic Administration in Recreational Intravenous Drug Users with Orthopaedic Infections
Erin Stockwell, Kent Rinehart, Angela Hewlett, Philipp Streubel
- 21-AEP-806 Tourniquet Use is Associated with Improved Outcomes in Aseptic Revision Total Knee Arthroplasty
Vinay Aggarwal, Joseph Robin, Chelsea Sicat, Trevor Simcox, Joshua Rozell, Ran Schwarzkopf, Vivek Singh
- 21-AEP-804 A covalently bound surface treatment of methacryloyloxydodecyl pyridinium bromide (MDPB) reduces microbial surface contamination in an ex vivo model while also being safe to the viability of mammalian cells, ex vivo.
Gene Kulesha, Zoe Tamton

Monitor 5

- 21-AEP-886 Distribution of Joint Involvement for Arbovirus-Associated Persistent Arthralgia May Help Distinguish Between Similar Diseases
Shayan Farahani, Federico Palacio
- 21-AEP-875 Does implant constraint affect outcomes following reimplantation for periprosthetic joint infection in total knee arthroplasty?
Eytan Debbi, Nicolas Sapountzis, Agnes Cororaton, Yu-Fen Chiu, Milan Kapadia, Ioannis Gkiatas, Peter Sculco, Alberto Carli
- 21-AEP-873 Preoperative Colonization with *S. aureus* in Total Knee Arthroplasty Informs Readmission Risk
Daniel Santana, Alison Klika, Yuxuan Jin, Ahmed Emara, Carlos Higuera, Nicolas Piuze
- 21-AEP-862 No role of complete blood count in determining outcome of reimplantation in two-stage revision hip and knee arthroplasty
Tejbir Pannu, Jesus Villa, Carlos Higuera, Aldo Riesgo, Alison Klika
- 21-AEP-860 Vertebral discitis-osteomyelitis and epidural abscess due to *Listeria monocytogenes*: case report and review of literature
Olayinka Adebolu, Abiodun Idowu, Nicole Lao, Talha Riaz
- 21-AEP-857 Sex Differences in Prosthetic Joint Infections
Christine Mironenko, Milan Kapadia, Laura Donlin, Mark Figgie, Alberto Carli, Michael Henry, Susan Goodman, Andy Miller
- 21-AEP-855 Preoperative Colonization with *S. aureus* in Total Hip Arthroplasty is Associated with Increased Length of Stay
Daniel Santana, Alison Klika, Yuxuan Jin, Ahmed Emara, Carlos Higuera, Nicolas Piuze
- 21-AEP-854 *Staphylococcus lugdenensis* in PJI: Operative Management and Treatment Success
Francis Sirch IV, Emanuele Chisari, Leanne Ludwick, Javad Parvizi
- 21-AEP-847 Is Manually Mixed Povidone Iodine Irrigation Preparation Reliable?
Emanuele Chisari, Noam Shohat, Karan Goswami, Chad Krueger, Javad Parvizi, Edward Schwarz
- 21-AEP-820 Preliminary study of anesthetic-loaded chitosan-mannitol-PEG paste to reduce *S. aureus* bioburden.
Emily Coleman, Carlos Wells, Luke Tucker, Zoe Harrison, Lauren Priddy, J. Jennings
- 21-AEP-807 Tourniquet Use Does Not Impact Outcomes in Revision Total Knee Arthroplasty for Periprosthetic Infections

- 21-AEP-805 Safety and Effectiveness of Intravenous to Oral De-escalation Compared to Continued Vancomycin Therapy in Orthopedic Infections
Chanah Gallagher, Laura Certain, Russell Benefield
- 21-AEP-802 16S DNA Deep Sequencing in Culture-Negative Periprosthetic Joint Infections with Draining Sinus Tracts
Gerhard Maale, Nicole Kennard, Aniruth Srinivasaraghavan, Arianna Mixon
- 21-AEP-801 Antibiotic-loaded Calcium Sulfate Coating vs Antibiotic-loaded PMMA Coating Intramedullary Nails in Septic Complex Extremity Reconstruction
Emilie-Ann Downey, Austin T. Fragomen, S. Robert Rozbruch, Asim Makhdum, Kayla Jaime, Taylor Reif