

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

Agenda

Friday, August 6, 2021

7:00am Registration Opens

7:00–8:00am Breakfast
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, Samantha Harrer, Scot Brown

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
Emanuele Chisari, P Maxwell Courtney, Scot Brown, Javad Parvizi, Chad Krueger, Leanne Ludwick

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
*Utkarsh Anil, Noah Kirschner, Greg Teo, Katherine Lygrisse, Ran Schwarzkopf, William Long, **Chelsea Sicat***

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
*Poorani Sekar, Kunatum Prasidhtrathsint, Nicholas Bedard, **Christopher Carender***

9:15-9:21am Extended Oral Antibiotics Increase Bacterial Resistance in Patients who Fail Two-Stage Exchange for Periprosthetic Joint Infection
*Mick Kelly, Brenna Blackburn, Jeremy Gililand, **Laura Certain***

9:22-9:32am Discussion

9:33-9:45am Refreshment Break
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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	Dr. Curtis Hartman
10:06-10:26am	Antibiotic loaded beads and cement spacers	Dr. Christina O'Connor
10:27-10:47am	Intraosseous vancomycin	Dr. Bryan Springer
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, Jeongeun Cho, 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 Piuze, 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 Stavrakis, 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, Daniel Wozniak, Kurt Stevenson, 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, Christopher Rains, 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**
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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 Dr. Poorani Sekar

1:11-1:26pm Discussion

1:27-1:37pm **Case #2:** presented by Dr. Michael Henry

1:38-1:53pm Discussion

1:54-2:04pm **Case #3:** presented by Dr. Laura Damioli

2:05-2:20pm Discussion

2:21-2:31pm Refreshment 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.
Adriana Echeverria, Alberto Carli, Mark Figgie, Thomas Bauer, Barry Brause, Michael Henry, Andy Miller, Michael Cross, Laura Donlin
- 2:39-2:45pm Diagnostic Utility of Next Generation Sequencing in PJI
Karan Goswami, Javad Parvizi
- 2:46-2:52pm EBJIS Definition for Periprosthetic Joint Infection: Questionable Accuracy
Emanuele Chisari, Leanne Ludwick, Noam Shohat, Javad Parvizi
- 2:53-2:59pm Isothermal Microcalorimetry Improves Accuracy and Time to Diagnosis of Fracture Related Infection
Kyle Cichos, Clay Spitler, Jonathan Quade, Michael Johnson, Joseph Johnson, Elie Ghanem
- 3:00-3:10pm Discussion**
- 3:11-3:17pm Application of New Consensus Definition Identifies High Numbers of Fracture Related Infections with Negative Cultures.
Kaitlyn Weinert-Stein, Henry Sagi, Margaret Powers-Fletcher, Federico Palacio
- 3:18-3:24pm Joint age, presence of a sinus tract, and revision arthroplasties influence the microbiology of periprosthetic joint infections
Don Geno Tai, Robin Patel, Matthew Abdel, Elie Berbari, Aaron Tande
- 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 Dr. Tom Fehring
- 4:06-4:21pm Dr. Aaron Tande
- 4:22-4:37pm Discussion

4:37pm Adjourn
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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

7:00-7:45am MSIS Business Meeting (MSIS Members only)

7:00-8:00am Breakfast
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 Antibiotic-Loaded Calcium Sulfate Beads Do Not Improve Outcomes After Debridement, Antibiotics, and Implant Retention (DAIR): A Matched Case-Control Study
*William Xiang, Chris Jones, Ioannis Gkiatas, Allina Nocon, Nicolas Selemon, Alberto Carli, Peter Sculco, **David Tarity***

8:14-8:20am Debridement With Antibiotics And Implant Retention: Does Chronicity of Symptoms Matter?
*Allina Nocon, Ioannis Gkiatas, Christopher Jones, Alberto Carli, Peter Sculco, **David Tarity***

8:21-8:27am Systemic Sepsis Secondary to Acute Periprosthetic Joint Infection: Incidence, Risk Factors and Outcomes of Treatment
*Marcelo Siqueira, Noam Shohat, Matthew Sherman, Sydney Streicher, Javad Parvizi, **Leanne Ludwick***

8:28-8:38am Discussion

8:39-8:45am Are septic-indicated distal femoral replacements more likely to require reoperation and revision than aseptic-indicated DFRs?
***Christopher Rothfusz**, Ahmed Emara, Alison Klika, Viktor Krebs, Robert Molloy, Carlos Higuera, Nicolas Piuzzi*

- 8:46-8:52am Positive Cultures in Aseptic Revision Arthroplasty: Are They Truly Contaminants?
Graham Goh, Samuel Clarkson, Javad Parvizi
- 8:53-8:59am Acute Kidney Injury Following Resection and Antibiotic-Loaded Spacer Insertion for Periprosthetic Joint Infection
Graham Goh, *Terence Thomas, Conor Drakeley, Ilan Small, Javad Parvizi*
- 9:00-9:06am Fungal and Mycobacterial Cultures Should Not be Routinely Obtained for Diagnostic Work-Up of Patients with Suspected Periprosthetic Joint Infection
Don Geno Tai, Nancy Wengenack, Robin Patel, Elie Berbari, Matthew Abdel, Aaron Tande
- 9:07-9:17am Discussion**
- 9:18-9:30am Refreshment Break
Visit Exhibitors and ePosters
- 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-Dr. Elie Ghanem
The use of the vancomycin powder for perioperative infection prevention: What is the evidence?
- 9:51-10:06am -**Pro:** Dr. Aldo Riesgo
10:07-10:22am -**Con:** Dr. Thorsten Seyler
10:23-10:43am Discussion
- 10:44-10:54am CORR Journal Presentation
10:55-11:05am JBJI 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, Julia Slater, Margaret Powers-Fletcher, 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, Julia Slater, Margaret Powers-Fletcher, 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
Tejvir 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 Tiew, 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, 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, Kiryung 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 Piuzzi, 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, Joseph Knue, 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, Renate Lux, Ichiro 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 Piuzzi
- 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, Derek Mann, 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, Daniel Wozniak, Peter Burback

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, Jeongeun Cho, Karan Goswami, Marjan Wouthuyzen-Bakker, Alex Friedrich, 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 Piuze
- 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, Butler Samuel, Koch John, Brothers Kimberly, Urish Kenneth
- 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 Sicut, 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, Fumi Kikyo, Margaret Powers-Fletcher, 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 Piuuzzi
- 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, Idowu Abiodun, 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 Piuuzzi
- 21-AEP-854 *Staphylococcus lugdenensis* in PJI: Operative Management and Treatment Success
Francis Sirch IV, Emanuele Chisari, Leanne Ludwick, Carla Renata Arciola, Javad Parvizi
- 21-AEP-847 Is Manually Mixed Povidone Iodine Irrigation Preparation Reliable?
Emanuele Chisari, Jeongeun Cho, 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
Vinay Aggarwal, Vivek Singh, Joseph Robin, Chelsea Sicut, Katherine Lygrisse, Joshua Rozell, Ran Schwarzkopf
- 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 Prophylaxis and treatment of infection in complex extremity reconstruction using antibiotic loaded ceramic coated interlocking intramedullary nails
Emilie-Ann Downey, Austin T. Fragomen, S. Robert Rozbruch, Asim Makhdom, Kayla Jaime, Taylor Reif