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
Emanuele Chisari, P Maxwell Courtney, 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 Prasidthrathsint, 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 Gililland, Laura Certain

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 Vissperas

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 Burback, Paul Stoodley, Kenneth Urish, Mostafa Eltobgy, Amelia Staats

12:02-12:08pm 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 Halcin: a novel antibacterial agent active on Staphylococcus aureus biofilms
Stefanie Simpson, Christopher Collier, Roman Natoli, Mizuho Kittaka, Edward Greenfield, Shota Higashihiro

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. 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, Julia Slater, 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 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  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
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  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
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 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, 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, Yajnesh 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_
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*

Function Evaluation of Spherocentric Total Elbows
*Gerhard Maale, Nicole Kennard, Aniruth Srinivasaraghavan, Arianna Mixon*

Topical vancomycin and tobramycin powder for infection prophylaxis in orthopaedic trauma surgery: Economically justifiable?
*Gregory Kirchner, Matthew Garner, Nathan Smith, Raymond Kim, Shawn Hines*

Preoperative Risk Factors for Polymicrobial Infection Following Open Fracture
*Madeline Lyons, Madeline Tee, Joseph Cohen, Hobie Summers, Ashley Levack, Garin Hecht Summers*

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*

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*

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*

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*

Metal-on-Polyethylene Implants Associated with Higher Risk of PJI versus Ceramic-on-Polyethylene
*Emanuele Chisari, Christian Ong, Noam Shohat, Javad Parvizi, Chad Krueger*

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*

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, 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, 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 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, 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 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
PJI Could be Result of Damage to Gut Epithelial Barrier
*Emanuele Chisari, Karan Goswami, Javad Parvizi*

Biofilm Eradication: Whatâ€™s New in Biofilm Disruption Strategies for Prosthetic Joint Infection
*Anabelle Visperas, Daniel Santana, Alison Klika, Carlos Higuera-Rueda, Nicolas Piuzzi*

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*

Methicillin Resistant Staphylococcus aureus is not Always Resistant to Cefazolin
*Alex Cappellini, Kimberly Brothers, Kenneth Urish*

The Burden of Obesity is Greater in Septic Revision Arthroplasty Versus Aseptic Revision Arthroplasty
*Cody Green, Taylor Rowe, Michael Valenzuela, Susan Odum, Thomas Fehring*

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*

Multidirectional Instability Following Primary Total Knees Associated with Metal Allergies
*Gerhard Maale, Aniruth Srinivasaraghavan, Nicole Kennard, Arianna Mixon*

Improved Complication Rates Following Total Hip and Knee Arthroplasty in Patients with Treated Hepatitis C
*Kenneth Schmidt, Rebecca Chun*

Improved Outcomes with Inpatient Antibiotic Administration in Recreational Intravenous Drug Users with Orthopaedic Infections
*Erin Stockwell, Kent Rinehart, Angela Hewlett, Philipp Streubel*

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*

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*
Distribution of Joint Involvement for Arbovirus-Associated Persistent Arthralgia May Help Distinguish Between Similar Diseases

Shayan Farahani, Federico Palacio

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

Preoperative Colonization with S. aureus in Total Knee Arthroplasty Informs Readmission Risk

Daniel Santana, Alison Klika, Yuxuan Jin, Ahmed Emara, Carlos Higuera, Nicolas Piuzzi

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

Vertebral discitis-osteomyelitis and epidural abscess due to Listeria monocytogenes: case report and review of literature

Olayinka Adebolu, Abiodun Idowu, Nicole Lao, Talha Riaz

Sex Differences in Prosthetic Joint Infections

Christine Mironenko, Milan Kapadia, Laura Donlin, Mark Figgie, Alberto Carli, Michael Henry, Susan Goodman, Andy Miller

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 Piuzzi

Staphylococcus lugdenensis in PJI: Operative Management and Treatment Success

Francis Sirch IV, Emanuele Chisari, Leanne Ludwick, Javad Parvizi

Is Manually Mixed Povidone Iodine Irrigation Preparation Reliable?

Emanuele Chisari, Noam Shohat, Karan Goswami, Chad Krueger, Javad Parvizi, Edward Schwarz

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

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 Makhdom, Kayla Jaime, Taylor Reif*