



35th Annual Open Scientific Meeting
August 1-2, 2025
Jersey City, NJ

Agenda

Friday, August 1, 2025

6:30-9:00am Breakfast

7:00am Registration

7:45am Welcome

SESSION I Antibiotics and Diagnosis

Moderators: Vinay Aggarwal MD, and Jenny Aronson, MD

8:00am Cefazolin and the R-1 Side Chain: Why Your Joint Arthroplasty Patients with Cephalosporin Allergy Can Safely Be Given Cefazolin (#1533)
Josef Jolissaint, Katherine Mallet, Andrew Thomson, Alberto Carli, Matthew Austin

8:06am Postoperative Oral Antibiotics Continues to Increase in Prevalence Without Associated Improvements in One-Year Periprosthetic Joint Infection Rates (#1509)
*Joshua Rainey, Brenna Blackburn, Christopher Pelt, Jeremy Gililand, Lucas Anderson, Michael Archibeck, **Laura Certain***

8:12am PJI Treatment and the Emergence of Antimicrobial Resistance: A Retrospective Cohort Study (#1490)
*Andy Miller, Andrew Thomson, Mia Fowler, Ananya Alleyne, **Michael Henry**, Alberto Carli*

8:18am Prosthetic Joint Infection due to Candida Species: What Affects Outcome of Treatment? (#1581)
Martin McNally

8:24am Discussion

8:30am Machine Learning Can Be Fine-Tuned to Match Different Criteria-Based Definitions of PJI (#1468)
*Jim Parr, Krista Toler, Van Thai-Paquette, Pearl Paranjape, Alex McLaren, **Carl Deirmengian***
Development and Validation of a Synovial Fluid Machine-Learning Score for PJI, with Clinical Verification in an External Cohort (#1472)
*Jim Parr, Krista Toler, Van Thai-Paquette, Pearl Paranjape, Yale Fillingham, Alex McLaren, **Carl Deirmengian***

- 8:38am Sonication Aids in Diagnosis and Treatment of Prosthetic Joint Infection (#1583)
*Alfredo Puing, Thilinie Bandaranayake, Anne Spichler, Ilda Molloy, Adam Winter, David Peaper, **Marjorie Golden***
- 8:44am Rapid Detection and Differentiation of PJI-Relevant Pathogens in Enriched Synovial Fluid via Voc Sensing (#1396)
*Xiaonao Liu, **Dereese Getnet**, Robert Hopkins, Taejun Ko, Deyu Liu, Jennifer Dootz, Buyu Yeh, Subramaniam Somasundaram, Mya Wilkes, Krista Toler*
- 8:50am Discussion
- Symposium 1 Advanced Topics in Antibiotics for Bone and Joint Infections**
Moderator: Alaina Ritter, MD
- 9:00am **Personalized Antibiotic Therapy: The Role of Therapeutic Drug Monitoring in Orthopedic Infections**
Lisa Vuong, PharmD, Infectious Diseases Clinical Specialist
UF Health Shands Hospital, Gainesville, FL
- Intra-osseous Vancomycin in Arthroplasty**
Stephen Incavo, MD, Orthopaedic Surgeon
Houston, TX
- European Perspectives on Antibiotics for Bone and Joint Infections**
Jaap Hanssen MD, Internal Medicine and Infectious Disease
Leiden University Medical Center, Leiden, The Netherlands
- 10:15am Break
Visit ePosters
Physical Posters (1394, 1411, 1416, 1437, 1450, 1462, 1463, 1466, 1478, 1487, 1565)
- Session II Fracture and Spine**
Moderators: Jeremy Shaw MD, and Michael Henry, MD
- 10:45am Prevalence of Occult Infections in Primary Posterior Instrumented Spinal Fusion (#1558)
Celeste Abjornson
- 10:51am Outcomes of Septic Long Bone Nonunions: Which Organisms are Associated with Poorer Results? (#1457)
*Kathryn Barth, **Robert Bilodeau**, Heather Haeberle, Mark Megerian, Craig Klinger, Gregory Schimizzi, William Ricci*
- 10:57am Safety and Efficacy Testing for the First of its Kind, FDA Approved, Commercially Available Antibacterial Surface Treatment for Permanent Limb Salvage and Spine Stabilization Implants (#1528)
Celeste Abjornson
- 11:03am Negative Pressure Wound Therapy Reduces Deep Infection Rate versus Conventional Wound Dressings for Gustilo Type II/III Open Lower Extremity Fractures: A Meta-Analysis (#1574)
***Justin Le**, Nicholas Moscardelli, Zeshan Fahim*

- 11:09am Discussion
- 11:15am Armed to the Teeth: Fight Bite-Associated Native Joint Septic Arthritis of the Hand Differs from Other Forms of Septic Arthritis (#1549)
Lauren Whearty, Stephen J McBride
- 11:21am Can We Validate the Musculoskeletal Infection Society Criteria in Patients Suspected of Infection After Transfemoral Osseointegration Surgery? (#1526)
Ashley Anderson, Julio Rivera, Sarah Rabin, Jason Souza, Benjamin Potter, Jonathan Forsberg
- 11:27am Toward Defining Optimal Antibiotic Duration in Spinal Implant Infections: Insights from a Multicenter Study (#1399)
Don Bambino Geno Tai, Jessica O'neil, Sandra Nelson, Daniela De Lima Corvino, Alaina Ritter, Jenny Aronson, Laura Certain, Alexander Tatara, Aaron Tande, Jessica Seidelman For SPIRIT Study Group
- 11:33am Discussion
- Symposium 2 Advances in Osteomyelitis and Fracture Related Infection**
Moderator: Elizabeth Robilotti, MD
- 11:40am **Patient-Friendly Surgery in FRI**
Martin McNally, MD MBCHB, Orthopaedic Surgeon
Oxford University Hospitals, Oxford, UK
- Preventing Fracture-Related Infections: Turning Evidence into Impact**
Ashley Levack, MD, Orthopaedic Surgeon
Loyola University Medical Center, Maywood, IL
- Diagnosing Fracture-Related Infection: What We Know, What We Question, What Comes Next**
I. Leah Gitajn, MD, Orthopaedic Surgeon
Dartmouth Hitchcock Medical Center, Lebanon, NH
- 12:50pm Lunch
- Session III Hip and Knee 1**
Moderators: Anne Sullivan MD, and Talha Riaz, MD
- 1:50pm Colonoscopy Within 6 Months Before TKA May Be Associated with Worse Postoperative Outcomes, but Not Infection: A National Database Analysis (#1441)
Khaled Elmenawi, Shujaa Khan, Ignacio Pasqualini, Anabelle Visperas, Matthew Deren, Viktor Krebs, Robert Molloy, Nicolas Piuze
- 1:56pm Failure Rates Significantly Decrease at 1.2 Years After Two-Stage Exchange for Chronic Periprosthetic Joint Infection of Total Knee Arthroplasty (#1366)
Michael Shannon, Scott Rothenberger, Victoria Wong, Kenneth Urish
- 2:02pm International Success and Failure of the Treatment of Periprosthetic Knee Infection: A Preliminary Report (#1410)
International Success and Failure of the Treatment of Periprosthetic Hip Infection: A Preliminary Report (#1409)
Carlos Higuera Rueda, Jesus Villa, Jesse Otero, Thomas Fehring, Cade Shadbolt, Craig Aboltins, Yves Poy Lorenzo, Michelle Dowsey, Sina Babazadeh, Orthopaedic Device Infection Network (ODIN)

- 2:10pm Discussion
- 2:16pm Early Periprosthetic Joint Infection After Total Joint Arthroplasty is a Risk Factor for New Onset Mental Health Disorders (#1564)
*Daisuke Furukawa, **Alvaro J Ayala***
- 2:22pm Cost of Antibiotic Loaded Cement to Prevent Prosthetic Joint Infections in Primary Total Joint Arthroplasty Procedures. (#1560)
*Kelly Guerin, Travis Larsen, Michael Henry, Eytan Debbi, Alberto Carli, **Elizabeth Robilotti***
Antibiotic Loaded Cement Does Not Prevent Periprosthetic Joint Infection in Primary Hip and Knee Arthroplasties. (#1520)
*Travis Larsen, Joseph Nguyen, Andy Miller, Peter Sculco, Alberto Carli, **Elizabeth Robilotti***
- 2:30pm Resurface it or Respect it? Reassessing Patellar Resurfacing in Two-Stage Revision for PJI (#1538)
*Josef Jolissaint, **Andrew Thomson**, Peter Sculco, Alberto Carli*
- 2:36pm Discussion

Symposium 3 My Trickiest Case

Moderator: Poorani Sekar, MD

Panelists: Mark Figgie, MD, Sandra Nelson, MD, Nicolas Piuizzi, MD
Jessica Seidelman, MD, Aaron Tande, MD, Kenneth Urish, MD PhD

- 2:45pm **Case Presentations:** Ana Salas Vargas, MD, Infectious Disease
Houston, TX
- Peter Sculco, MD, Orthopaedic Surgeon
Hospital for Special Surgery, New York, NY
- Alison Lastinger, MD, Infectious Disease
West Virginia University, Granville, West Virginia

- 3:45pm Break
Visit ePosters
Physical Posters (1445, 1465, 1491, 1496, 1501, 1502, 1504, 1519, 1525, 1534, 1542)

Session IV Hip and Knee 2

Moderators: Johannes Plate MD, and Laura Damioli, MD

- 4:15pm Aspirin Leads, Infection Falls: A 12 Year Review of Changing Antithrombotic Trends and Their Impact on Infection Risk After THA (#1508)
Antithrombotic Therapy and Their Association with PJI Risk After TKA: A 12-Year Review (#1506)
*Anzar Sarfraz, Benjamin Padon, Farouk Khury, Kush Attal, Joshua Rozell, Ran Schwarzkopf, **Vinay Aggarwal***
- 4:23pm Surgeon vs. Center Volume: Who Really Affects Infection Rates in Total Hip Arthroplasty? (#1536)
Josef Jolissaint, Andrew Thomson, Alexandra Grizas, Andy Miller, Geoffrey Westrich

- 4:29pm Lower Limb Cellulitis in the 3 Months Before Total Knee Arthroplasty Increases Risk of PJI and Infection-Related Complications (#1438)
Lower Limb Cellulitis Three Months Before Total Hip Arthroplasty Increases Risk of PJI and Infection-Related Complications (#1440)
*Khaled Elmenawi, Shujaa Khan, Ignacio Pasqualini, Anabelle Visperas, Matthew Deren, Viktor Krebs, Robert Molloy, **Nicolas Piuze***
- 4:37pm Discussion
- 4:43pm A Standardized Dair Protocol Involving Specific Antiseptic Solutions Produces Promising Short-Term Results in Hip and Knee PJI (#1507)
*Peter Sculco, Allina Nocon, Mark Youssef, Bianca Nakar, David Mayman, Gwo-Chin Lee, **Alberto Carli***
- 4:49pm Double-Dair Protocol for Acute Periprosthetic Joint Infection: A 15-Year Institutional Experience (#1481)
***Saad Tarabichi**, David Deckey, Carly Horne, Henry Clarke, Joshua Bingham, Mark Spanghel*
- 4:55pm Effective Seven-Day Antibiotic Irrigation for Chronic PJI: 12-Month Results from Two Prospective Randomized Comparative Studies (#1493)
*Bryan Springer, Carlos Higuera-Rueda, Brian De Beaubien, Kevin Warner, Andrew Glassman, Hari Parvataneni, Kenneth Urish, Johannes Plate, Edward Stolarski, **Nicolas Piuze***
- 5:01pm Discussion
- 5:10pm **Member Survey:** Alberto Carli, MD and Nicolas Cortes-Penfield, MD
- 6:00 pm Cocktail Reception
- 6:30 pm Dinner

Saturday, August 2, 2025

- 6:30-9:00am Breakfast
- 7:00am MSIS Business Meeting (MSIS members only)

Special Presentations

- 7:45am **Diagnosis of Postoperative Spine Infection**
Jeremy Shaw, MD, Spine Surgeon
University of Pittsburgh, Pittsburgh, PA
- 7:55am **Unified PJI Diagnosis**
Thorsten Seyler, MD PhD, Orthopaedic Surgeon
Durham, NC
- Andy Miller, MD, Infectious Disease
Hospital for Special Surgery, New York, NY

Symposium 4 Transforming Ortho-ID Training: From local Curricula to National Tools

Moderator: Elizabeth Thottacherry, MD

8:15am

House Staff Education

Jenny Aronson, MD, Infectious Disease
Stanford Healthcare, Redwood City, CA

The Joint Approach: Podcast and Related Media

Jessie Seidelman, MD MPH, Infectious Disease
Durham, NC

Johannes Plate, MD PhD, Orthopaedic Surgeon
Monroeville, PA

The OrthoID Library

Don Bambino Geno Tai, MD, Infectious Disease
University of Minnesota Dept. of Medicine, Minneapolis, MN

Mayo's Musculoskeletal Infection Fellowship

Aaron Tande, MD, Infectious Disease
Mayo Clinic, Rochester, MN

Mentorship and Education in Surgical Training

Mark Figgie, MD, Orthopaedic Surgeon
Hospital for Special Surgery, New York, NY

Session V

Basis Science

Moderators: Derek Amanatullah, MD, and Ashley Levack, MD

9:15am

Proteomic Insight into Immune Pathways and Biomarker Discovery in Periprosthetic Joint Infection (#1392)
*Nicolas Piuze, Suan Sin Foo, Weiqiang Chen, Thaddeus Stappenbeck, **Anabelle Visperas***

9:21am

The Role of Staphylococcal Host Antibody Inhibition in Orthopaedic Device Infection (#1382)
*Abhinav Adlooru, Lauren Kemp, Walid Bibi, Antonia Chen, **Alexander Tatara***

9:27am

Immunologic Markers of Dormant Infection Predict Infection Free Survival in Total Joint Replacements (#1386)
***Derek Amanatullah**, Robert Manasherob, Shay Warren, Lyong Heo, Daisuke Furukawa, Stuart Goodman*

9:33am

Probe-Based Ultrasonication Effectively Removes Biofilm from Clinically Relevant Orthopedic Materials: An In-Vitro Proof of Concept (#1422)
***Matthew Shirley**, Sarah Romereim, Bailey Fearing, Thomas Fehring, Jesse Otero*

9:39am

Discussion

9:45am

Acute Local Irritation Potential of a Novel Citrate-Based Irrigation Solution for Total Joint Arthroplasty: An In Situ Evaluation in a Rabbit Model (#1375)
*Farideh Najafi, Beverly Lundell, **Jon Minter***

9:51am

Halicin Prevents Accumulation of Aminoglycoside-Induced Small Colony Variants of *S. aureus* (#1532)
***Allison Wintring**, Jason Minnich, Akira Morita, Roman Natoli, Edward Greenfield*

- 9:57am Inherently Anti-Staphylococcal Bone Cement (#1384)
*Lauren Kemp, Ivan Delgado Alvarado, Robert Tower, **Alexander Tatara***
- 10:03am Ex Vivo Antibacterial Efficacy of MDPB-Coated Cobalt Chromium Implants Against Staphylococcus Aureus and Staphylococcus Epidermidis in Preventing Bacterial Contamination (#1499)
Samuelson Osifo, Michael Shannon, Victoria Wong, Adrian Santana, Kenneth Urish, Gene Kulesha
- 10:09am Pretreatment with Vancomycin Prevents Biofilm Formation on Marlex Mesh Utilized in Revision Knee Arthroplasty (#1389)
Christina Chao, Tyler Hoskins, Mohammed Hammad, Suenghwan Jo, Mathias Bostrom, Alberto Carli
- 10:15am Discussion
- 10:21am **Break**
Visit ePosters
Physical Posters (1398, 1510, 1539, 1546, 1547, 1551, 1553, 1556, 1568, 1585, 1586)
- Symposium 5 Osseointegration and Infection**
Moderator: Laura Certain, MD PhD
- 10:55am **Osseointegration Limb Replacement:
A Radical Functional Solution for Chronic Infection**
Robert Rozbruch, MD, Orthopaedic Surgeon
Hospital for Special Surgery, New York, NY
- Basic Science of Osseointegration: A Focus on Infectious Perspectives**
Jason Hoellwarth, MD, Orthopaedic Surgeon
Hospital for Special Surgery, New York, NY
- Diagnosis and Management of Osseointegration-related infections**
Michael Henry, MD, Infectious Diseases
Hospital for Special Surgery, New York, NY
- 12:05pm Hall of Fame Presentation
- 12:15pm Presentation of Awards and Prizes
Introduction of Incoming President
- 12:30pm Adjourn