Duke Orthopaedics • American Academy of Orthopaedic Surgeons • August 31–September 4, 2021 • San Diego, California

AAOS Meeting Presenter Search

Instructional Course Lectures Schedule
https://www.aaos.org/globalassets/annual-meeting/education-annual-meeting/iclschedule2021_web.pdf

AAOS Meeting Website
https://www.aaos.org/annual/

Please share AAOS photos with Holley at 919-949-9545 (cell)
**Presentations**

8:00 AM - 10:00 AM • Ballroom 6F

#101 ICL Intraoperative and Postoperative Complications in Total Hip Arthroplasty: How Do I Make It Right?
Michael P. Bolognesi, MD, FAAOS

8:00 AM - 10:00 AM • Room 8

#108 ICL Taking Charge of Change in 2021: Leading Your Organization through the Evolving Value-Based Payment Landscape
Richard Mather III MD, MBA, FAAOS

8:05 AM - 8:10 AM • Ballroom 6E

#038 When Not to Operate in Spinal Deformity: Identifying Subsets of Patients with Clinical Deterioration, Major Complications, and Highly Cost Inefficient Surgery/ Is there a Threshold for Saying No?
Alan H. Daniels, MD, FAAOS; Christopher Ames, MD; Christopher I. Shaffrey, MD,FAAOS; D. Kojo Hamilton; Douglas C. Burton, MD, FAAOS; Eric O. Klineberg, MD, FAAOS; Frank J. Schwab, MD; Gregory M. Mundis, MD, FAAOS; Han Jo Kim, MD, FAAOS; Justin S. Smith, MD; Katherine E. Pierce, BS; Peter G. Passias, MD, FAAOS; Renaud Lafage, MS; Robert A. Bess, MD, FAAOS; Michael P. Kelly, MD, FAAOS; Robert A. Hart, MD, FAAOS; Sara Naessig, BS; Waleed Ahmad, MD

8:30 AM - 8:35 AM • Ballroom 6E

#042 How Much Lumbar Lordosis Does a Patient Need to Reach their Age-Adjusted Alignment Target? A Formulated Approach Predicting Successful Surgical Outcomes
Christopher Ames, MD; Christopher I. Shaffrey, MD,FAAOS; Douglas C. Burton, MD, FAAOS; Eric O. Klineberg, MD,FAAOS; Frank J. Schwab, MD; Gregory M. Mundis, MD, FAAOS; Han Jo Kim, MD, FAAOS; Justin S. Smith, MD; Michael H. McCarthy, MD,MPH; Munish C. Gupta, MD,AAOS; Robert S. Bess, MD,AAOS; Themistocles S. Prototsaltis, MD,AAOS; Virginie Lafage, PhD, NYU Langone

9:00 AM - 10:00 AM • Academy Hall, Sails Pavilion

**Poster Tour – Spine**

Sergio Mendoza-Lattes MD, FAAOS, Moderator

9:05 AM - 9:10 AM • Ballroom 6E

#047 Low Pelvic Incidence Patients are at High Risk of Over Correction following Adult Spinal Deformity Surgery
Alan H. Daniels, MD, FAAOS; Alexandra Soroceanu, MD; Christopher Ames, MD; Christopher I. Shaffrey, MD,FAAOS; Eric O. Klineberg, MD, FAAOS; Frank J. Schwab, MD; Gregory M. Mundis, MD, FAAOS; Justin S. Smith, MD; Michael P. Kelly, MD, FAAOS; Munish C. Gupta, MD, FAAOS; Robert S. Bess, MD, FAAOS; Robert A. Hart, MD, FAAOS; Themistocles S. Prototsaltis, MD, FAAOS; Virginie Lafage, PhD

9:55 AM - 10:00 AM • Ballroom 6E

#054 Critical Analysis of Anterior/Posterior Staged vs. Same Day Surgery in Patients Undergoing Identical Corrective Surgery for Adult Spinal Deformity
Breton G. Line, BS; Christopher Ames, MD; Christopher I. Shaffrey, MD,FAAOS; D. Kojo Hamilton; Douglas C. Burton, MD, FAAOS; Eric O. Klineberg, MD, FAAOS; Frank J. Schwab, MD; Gregory M. Mundis, MD, FAAOS; Justin S. Smith, MD; Katherine E. Pierce, BS; Peter G. Passias, MD, FAAOS; Pierce D. Nunley, MD, FAAOS, FACS; Renaud Lafage, MS; Robert S. Bess, MD, FAAOS; Robert K. Eastlack, MD, FAAOS; Robert A. Hart, MD, FAAOS; Sara Naessig, BS; Nyu Langone; Virginie Lafage, PhD; Waleed Ahmad, MS

9:45 AM - 9:50 AM • Ballroom 6E

#053 Artificial Intelligence Clustering of Adult Spinal Deformity Morphology Predicts Surgical Characteristics, Alignment, and Outcomes
Alan H. Daniels, MD, FAAOS; Alexandra Soroceanu, MD; Christopher Ames, MD; Christopher I. Shaffrey, MD, FAAOS; D. Kojo Hamilton; Douglas C. Burton, MD, FAAOS; Eric O. Klineberg, MD, FAAOS; Frank J. Schwab, MD; Gregory M. Mundis, MD, FAAOS; Han Jo Kim, MD, FAAOS; Jeffrey Gum, MD, FAAOS; Justin S. Smith, MD; Khaled M. Keaish, MD, FAAOS; Michael P. Kelly, MD, FAAOS, FAORTHA; Munish C. Gupta, MD, FAAOS; Peter G. Passias, MD, FAAOS; Renaud Lafage, MS; Richard A. Hostin, MD, FAAOS; Robert S. Bess, MD,FAAOS; Robert K. Eastlack, MD, FAAOS; Robert A. Hart, MD, FAAOS; Themistocles S. Prototsaltis, MD, FAAOS; Virginie Lafage, PhD; Wesley M. Durand, BS
**Presentations**

10:30 am–12:30 pm  
**#121 ICL Understanding and addressing safely the reasons that surgeons and patients believe they ‘need’ a hospital admit**  
Michael Bolognesi MD, FAAOS

10:30 AM - 12:30 PM • Room 33

**#184 Lumbar Interbody Fusion: Approaches, Devices, Biologics, and More**  
Melissa Erickson, MD, FAAOS, William Richardson, MD, FAAOS

11:00 am - 12:00 pm • Room 28E

**Strategic Diversity, Equity, and Inclusion Leadership in Orthopaedics: Modernized Frameworks and Practices**  
Erica Taylor, MD and Alison Toth, MD

11:00 AM - 11:30 AM • Engagement Theater, Academy Hall, Sails Pavilion  
**#ET3 Engagement Theater: Prepare for Alternative Payment Models (APMs) and Take Better Care of Your Patients: A Novel System for Hip and Knee Osteoarthritis (OA)**  
William Jiranek, MD, FAAOS, FACS; Richard C. Mather, MD, MBA, FAAOS, Moderator

11:20 am - 11:25 pm • Ballroom 6A  
**#099 Diaphyseal Tibia Nonunions Have High Rates of Positive Intraoperative**  
Malcolm DeBaun, MD

11:40 am - 11:45 am • Ballroom 6A  
**#102 Serum Inflammatory Markers are Not Predictive of Culture-positive Tibia Nonunions**  
Malcolm DeBaun, MD

11:55 AM - 12:00 PM • Room 32  
**#159 Leveraging Evolutionary Fitness Bottlenecks as Therapeutic Vulnerabilities in Doxorubicin-Resistant Osteosarcoma**  
Abbey L. Milwicz; Anika Agarwal, BS; Anna L. Slingerland, BS; Cameron T. Bozdog; David L. Corcoran, MS, PhD; Ella F. Gunady; Etienne Flamant, BS; Jason Somarelli; Joseph A. Prinz; Kathryn Ware; Mark M. Cullen, BS; Maya Sheth; Nicolas Devos, PhD; So Young Kim, PhD; Will Eward, DVM, MD

12:00 PM - 12:05 PM • Room 32  
**#160 Identifying Modifiable and Non-Modifiable Risk Factors of Readmission and Short-Term Mortality in Osteosarcoma**  
Alexander L. Lazarides, MD, Duke University Medical Center; Brian E. Brigman, MD, PhD, FAAOS; Dan Blazer, MD, Duke University; Daniel R. Rowland, MSc; Julia D. Visgauuss, MD; Marcelo Cerullo, MD, MPH; Mark M. Cullen, BS; Will Eward, DVM, MD

1:50 PM - 1:55 PM • Room 32  
**#221 Influence of Topography on 3D Printed Titanium Foot and Ankle Implants**  
Bijan Abar, BS; Cambre Kelly, PhD; Helena Barber, BA; Ken Gall, PhD; Nicholas Allen; Samuel B. Adams, MD, FAAOS

2:10 PM - 2:15 PM • Ballroom 6E  
**#206: The Impact of Opioid Legislation on Narcotic Filling in Total Hip Arthroplasty: National Time and State-Level Trends**  
Brian D. Lewis, MD, FAAOS; Daniel J. Cunningham, MD; Sean P. Ryan, MD

4:00 PM - 6:00 PM • Room 31  
**#187 A Case-Based Approach to Revision Total Hip Arthroplasty: Covering the Bases from Simple to Complex**  
William Jiranek, MD, FAAOS, FACS

4:00 PM - 6:00 PM • Room 33  
**#188 Case Presentation All in a Day’s Work: How to Address the Array of Knee Problems Our Patients Present**  
Michael Bolognesi MD, FAAOS
# Poster Presentations • Academy Hall, Sails Pavilion

**#P0115 Do Patients with Paget’s Disease have Worse Outcomes following Primary Total Knee Arthroplasty?**  
Martin W. Roche, MD, FAAOS; Michael P. Bolognesi, MD, FAAOS; Michael A. Mont, MD, FAAOS; Nicholas Hernandez, MD; Rushabh Vakharia, MD; Thorsten M. Seyler, MD, PhD, FAAOS

**#P0182 Locking Plate Augmentation of Polymethylmethacrylate-Filled Distal Femur Defects**  
Alexander L. Lazarides, MD; Brian E. Brigman, MD, PhD, FAAOS; Bruno Belanger, BSME; Harrison R. Ferlauto, BS; Julia D. Visgauss, MD; Mark M. Cullen, BS; Will Eward, DVM, MD

**#P0183 Targeting Cholesterol Biosynthesis in Enchondroma and Chondrosarcoma**  
Benjamin Alman, MD, FAAOS, Duke; Jay Wunder, MD

**#P0194 Defining a Textbook Surgical Outcome for Patients Undergoing Surgical Resection of Intermediate and High-Grade Soft Tissue Sarcomas of the Extremities**  
Alexander L. Lazarides, MD; Brian E. Brigman, MD, PhD, FAAOS; Dan Blazer, MD; Dimitrios Moris, MD, MSc, PhD; Marcelo Cerullo, MD, MPH; Will Eward, DVM, MD

**#P0230: Where are All of the Black Applicants? A Cross-Sectional Ranking of Medical School Applicant Diversity Based on the J. Robert Gladden Orthopaedic Society Database**  
Alysia Robertson, MD; Bonnie Simpson Mason, MD, FAAOS; Christopher I. Shaffrey, MD, FAAP; Eric W. Carson, MD, FAAOS; Erica Taylor, MD, FAAOS; Jaysson T. Brooks, MD; Letitia Bradford, MD, FAAOS, FACS; Tino Mkorombindo, B; Tyler B. Nsekpong, BS; William A. J. Ross, MD, FAAOS

**#P0265 A Case Complexity Modifier is Warranted for Primary Total Knee Arthroplasty**  
Christine J. Wu, MD; Johannes F. Plate, MD, PhD; Michael P. Bolognesi, MD, FAAOS; Sean P. Ryan, MD; Thorsten M. Seyler, MD, PhD, FAAOS; William A. Jiranek, MD, FAAOS, FACS

**#P0328 When Can We Expect Global Sagittal Alignment to Reach a Stable Value following Cervical Deformity Surgery?**  
Christopher Ames, MD; Christopher I. Shaffrey, MD, FAAOS; Eric O. Klineberg, MD, FAAOS; Frank J. Schwab, MD; Gregory M. Mundis, MD, FAAOS; Han Jo Kim, MD, FAAOS; Jonathan C. Elysee; Justin S. Smith, MD; Munish C. Gupta, MD, FAAOS; Peter G. Passias, MD, FAAOS; Renaud Lafage, MS, Hospital For Special Surgery; Robert S. Bess, MD, FAAOS; Themistocles S. Protopsaltis, MD, FAAOS; Virginie Lafage, PhD

**#P0390: Anterior Cruciate Ligament Deficiency Alters Tibiofemoral Cartilage Strain Response to Walking In-Vivo**  
Amber Collins, PhD; Bryan Crook, MD; Charles E. Spritzer, MD; Jocelyn R. Wittstein, MD, FAAOS; Louis E. DeFrate, PhD; Nimit Lad, MD
Presentations

8:00 AM - 12:30 PM • Room 32
SOMOS Specialty Society Session
Learning Leadership
Dean C. Taylor, MD, FAAOS; Jonathan Dickens, MD, Moderator

8:00 AM - 10:00 AM • Room 7B
#202 ICL Incorporating Telemedicine in Your Orthopaedic Practice: COVID-19 and Beyond
William Jiranek, MD, FAAOS, FACS; Jocelyn Wittstein MD, FAAOS, Moderator

9:05 AM - 9:10 AM • Ballroom 20B
#336 Can Upstream Patient Education Improve Fracture Care in a Digital World? Use of a Decision Aid for the Treatment of Displaced Diaphyseal Clavicle Fractures
Malcolm DeBaun, MD

8:00 AM - 10:00 AM • Room 4
ICL 2-Hour #205 Skeletal Dysplasias: New Concepts in Management from the Child to Adult
Benjamin Alman MD, FAAOS, Moderator

11:10 AM - 11:15 AM • Room 28C
#386 Cast or Nail? Efficacy of a Preference-Based Decision Tool for Parents on Treatment Decisions for Pediatric Femoral Shaft Fractures
Anthony A. Catanzano, MD; Benjamin Alman, MD, FAAOS; Carolyn Hutyra, MS; Richard C. Mather, MD, MBA, FAAOS

11:46 AM - 12:30 PM • Ballroom 20A
Hip Panel
Charles L. Nelson, MD, FAAOS; Javad Parvizi, MD, FAAOS, FRCS; Joseph T. Moskal, MD, FAAOS, FACS; Joshua J. Jacobs, MD, FAAOS; Michael A. Mont, MD, FAAOS; William A. Jiranek, MD, FAAOS, FACS

12:40 PM - 1:25 PM • TechTalk Theater Hall H
Lunch and Learn: Can Material Science Improve Outcomes?
Stephen T. Duncan, MD, FAAOS; Steven B. Haas, MD, FAAOS; Thorsten M. Seyler, MD, PhD, FAAOS

1:49 PM - 1:54 PM • Ballroom 20A
HSKS AAHKS Specialty Session
Michael Bolognesi MD, FAAOS

Poster Presentations • Academy Hall, Sails Pavilion

Poster Tours
8:30 AM - 9:30 AM
A Cross-Species Osteosarcoma Organoid System for Profiling Functional Intratumoral Heterogeneity in Proliferation and Therapy Response
Beatrice C. Thomas, BS; David Hsu, MD, PhD; Etienne Flamant, BS; Gabrielle H. Rupprecht; Jason Somarelli; Joanne Tuohy, DVM, PhD; Mark M. Cullen, BS; Sarah M. Hoskinson, BS; Will Eward, DVM, MD
Poster Presentations Academy Hall, Sails Pavilion

#P0595 Experience, Motivations, and Expectations of Adult Reconstruction Fellowship Applicants
Christine J. Wu, MD; David E. Attarian, MD, FAAOS, FACS, FAORTHA; Michael P. Bolognesi, MD, FAAOS; Nicholas Hernandez, MD; Nima Kabirian, MD, Samuel S. Wellman, MD, FAAOS, Thorsten M. Seyler, MD, PhD, FAAOS; Zoe W. Hinton, MD.

#P0622 Risk Factors for Adverse Outcomes following Outpatient Total Knee Arthroplasty: An Analysis from ACS-NSQIP 2013-2018
Albert T. Anastasio, MD; Elshaday S. Belay, MD; Mark Wu, MD; Michael P. Bolognesi, MD, FAAOS; Niall H. Cochrane, MD; Thorsten M. Seyler, MD, PhD, FAAOS; William A. Jiranek, MD, FAAOS, FACS

#P0627 Are Tibial Constructs with Cones in Revision Total Knee Arthroplasty Durable at Mid-Term Follow Up?
Christine J. Wu, MD; Michael P. Bolognesi, MD,FAAOS; Nicholas Hernandez, MD; Sean P. Ryan, MD; Zoe W. Hinton, MD

#P0648 Outcomes following Subchondroplasty in the First Metatarsal Head
Akhil Sharma, MD; Craig C. Akoh, MD, Duke University Medical College; Selene G. Parekh, MD, MBA, FAAOS

#P0686 A Cross-Species Osteosarcoma Organoid System for Profiling Functional Intratumoral Heterogeneity in Proliferation and Therapy Response
Beatrice C. Thomas, BS; David Hsu, MD, PhD; Etienne Flamant, BS; Gabrielle H. Rupprecht; Jason Somarelli; Joanne Tuohy, DVM, PhD; Mark M. Cullen, BS; Sarah M. Hoskinson, BS; Sehwa Oh, MS; Will Eward, DVM, MD

#P0783 Application of the International Consensus Meeting Diagnostic Criteria for Shoulder Periprosthetic Joint Infection
Christopher Klifto, MD; Colleen Wixted, BS; Daniel E. Goltz, MD; Elshaday S. Belay, MD; Oke A. Anakwenze, MD, MBA, FAAOS

#P0915 Return to Play and Prior Performance following Anterior Cruciate Ligament Reconstruction in National Football League Players
Amanda N. Fletcher, BA, MD, MS; Craig C. Akoh, MD, Duke University Medical College; Kush S. Mody, MBA; Selene G. Parekh, MD, MBA, FAAOS

#P0956 A Bioactive Synthetic Membrane Improves Bone Healing in a Preclinical Nonunion Model
Malcolm DeBaun, MD
**Poster Presentations Academy Hall, Sails Pavilion**

**#P0953 Vancomycin Powder Usage in Orthopaedic Trauma: Current Practice and Trends**
Chuan Silvia Li, MS; Darius Viskontas, MD; Gerard Slobogeian, MD, MPH, FAAOS, FRCSC; Gorden D. Potter, MD, FAAOS; Joshua L. Gary, MD, FAAOS; Lucas S. Marchand, MD; Manjari Josh; Mark Gage, MD; Mohit Bhandari, MD, FRCSC, PhD; Nicholas Romeo, DO; Patrick F. Bergin, MD, FAAOS; Robert A. Hymes, MD; Robert V. O'Toole, MD, FAAOS; Sheila Sprague, PhD; Thomas F. Higgins, MD, FAAOS; William T. Obremskey, MD, MPH, FAAOS

**#P0985 Factors Associated with Perioperative Opioid Demand in Lower Extremity Fractures: Does Actual Intake Vary by Anatomic Location?**
Daniel J. Cunningham, MD; Mark Gage, MD; Micaela A. Larose, BA; Richard S. Yoon, MD, FAAOS

**#P0563 Fate of Two-Stage Reimplantation after Failed Irrigation and Debridement for Prosthetic Hip Infection**
Daniel J. Cunningham, MD; Joseph Kavolus, MD; Nicholas Ting, MD; Nima Eftekhar, MD; Thomas K. Fehring, MD, FAAOS; Thorsten M. Seyler, MD, PhD, FAAOS; William L. Griffin, MD, FAAOS

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**Piedmont Orthopedic Society Mid-Winter Meeting and Reception**

**Thursday, September 2, 6:30-8:30 p.m.**

*Hilton Bayfront Hotel San Diego*

1 Park Blvd, San Diego, California 92101
Presentations

8:00 AM - 10:00 AM • Room 30A
#405 ICL Infection in Arthroplasty: The Basic Science of Bacterial Biofilms in its Pathogenesis, Diagnosis, Treatment, and Prevention

8:00 AM - 10:00 AM • Ballroom 6D
Practice Management/Rehabilitation IV
Richard Mather III MD, MBA, FAAOS, Moderator

8:00 AM - 10:00 AM • Ballroom 20A
President’s Symposium: Elimination of the Inpatient Only List: What We Don’t Know Will Hurt Us and Our Patients Symposium
Financial Implications Surgeons
Michael P. Bolognesi, MD, FAAOS

11:00 AM - 12:30 PM • Ballroom 20A
Symposium: Optimizing the Results of Total Hip Arthroplasty: Managing the Simple and the Complex Total Hip Arthroplasty
Michael P. Bolognesi, MD, FAAOS

3:30 PM - 5:00 PM • Room 30C
#463 ICL Periprosthetic Joint Infection of the Knee: Contemporary Diagnosis and Management
Michael P. Bolognesi, MD, FAAOS

3:30 PM - 5:00 PM • Room 33
#488 “Simple” Fractures Gone Wrong: What Do I Do Now?
Mark Gage, MD