

**Western Orthopaedic Association
Scientific Program
Huntington Beach, CA
Huntington Ballroom (*Unless Otherwise Specified*)
August 8th - 10th, 2024**

Thursday, August 8th

- 6:30 am – 7:30 am **Scientific Poster** (Presenters are available to answer questions) (*Grand Ballroom Foyer*)
- 6:30 am – 7:30 am **Scientific E-Poster Session** (Presenters are available to answer questions) (*Driftwood, Sunrise A, Fountain East & West, and Seacliff*)
- 7:15 am – 7:25 am **First Business Meeting**
Jay R. Lieberman, MD, *President*
- 7:25 am – 7:30 am **Welcome, Announcements and Overview**
Nathanael D. Heckmann, MD, Keck School of Medicine of USC
Eric W. Tan, MD, Keck School of Medicine of USC
- Rapid Fire Session 1A – Arthroplasty Knee (*Driftwood*)**
Moderators: Scott T. Ball, MD, *University of California, San Diego*
 Sean S. Rajaei, MD, MS, *Cedars-Sinai Medical Center*
- 7:35 am – 7:39 am 75 - Surgeon-Administered Infiltration Is Equivalent to Anesthesiologist-Administered ACB in TKA
Regina Chi, BS, Cedars Sinai Medical Center
- 7:39 am – 7:43 am 149 - Variability Between Anteroposterior and Posterior Condylar Axis Lines in TKA
Jennifer Kallini, MD, UCLA Orthopaedic Surgery
- 7:43 am – 7:47 am 51 - Agreement of Alignment Measures in Total Knee Arthroplasty: Retrospective Cohort Comparative Analysis
John P. Walsh, MD, Valley Hospital Medical Center
**Presented by Benjamin S. Moyer, DO*
- 7:47 am – 7:50 am Discussion

- 7:50 am – 7:54 am 64 - The Impact of Prior ACL Reconstruction on Total Knee Arthroplasty Outcomes
Hunter Jones, MD, UT Southwestern Medical Center
- 7:54 am – 7:58 am 136 - Two-Year Outcomes After Total Knee Arthroplasty for Post-Traumatic Arthritis
Caleb Durst, BS, Cedars-Sinai Medical Center
**Presented by Rebisi Owhonda, MD, MS*
- 7:58 am – 8:02 am 465 - Outcomes of Total Knee Arthroplasty Following Knee Dislocation: A Matched Cohort Analysis
William Curtis, MD, University of New Mexico
- 8:02 am – 8:05 am Discussion
- Rapid Fire Session 1B – Basic Science (Sunrise A)**
Moderators: Brian Feeley, MD, *University of California, San Francisco*
Frank Petrigliano, MD, *Keck Medicine of USC*
- 7:35 am – 7:39 am 76 - Effect of Pressurized Carbon Dioxide Lavage on Osteochondral Allograft Preparation
Seth L. Sherman, MD, Stanford University
- 7:39 am – 7:43 am 390 - E-Cigarette Vapor Extracts Impact Viability and Differentiation of Bone Derived Stem Cells
Justin Lee, MS, Northwestern University
**Presented by Avani Chopra*
- 7:43 am – 7:47 am 91 - Single-Cell RNA Sequencing of Corticosteroid-Induced Osteonecrosis of the Femoral Head
Jacob Ball, MD, University of Southern California
- 7:47 am – 7:50 am Discussion
- 7:50 am – 7:54 am 170 - Suture Augmentation of Locking Plate Fixation in Transverse Patella Fractures
Christen E. Chalmers, MD, University of California Irvine
- 7:54 am – 7:58 am 297 - Gene Expression Analysis Reveals Differences in the Capsular Tissue of Patients with Anterior and Posterior Shoulder Instability
Alec C. Egan, MD, MS, Madigan Army Medical Center
- 7:58 am – 8:02 am 345 - Progression of Ankle Osteoarthritis Is Associated With Distinct Synovial Transcriptomic Phenotypes

*Julia Matthias, MD, University of Colorado Anschutz
Medical Campus*

8:02 am – 8:05 am

Discussion

Rapid Fire Session 1C – Sports Knee Ligament & Tendon Injuries (*Fountain East*)

Moderators: Dean Wang, MD, *University of California, Irvine*

Stephanie E. Wong, MD, *University of California, San Francisco*

7:35 am – 7:39 am

7 - UFC Fighter Performance Following Anterior Cruciate
Ligament Reconstruction

*Jacob S. Ghahremani, BA, Kaiser Permanente Bernard J.
Tyson School of Medicine*

**Presented by Tanya Watarastaporn, MS, BS*

7:39 am – 7:43 am

334 - Multi-Ligament Knee Injuries – Treatment Outcomes
in Patients 40 & Older

*Navneet Venugopal, BS, University of Texas Medical
Branch*

7:43 am – 7:47 am

414 - Impact of Early vs Delayed Anterior Cruciate
Ligament Reconstruction on Revision and Tibiofemoral
Laxity

Virginia Xie, BA, Kaiser Permanente School of Medicine

**Presented by Tanya Watarastaporn, MS, BS*

7:47 am – 7:50 am

Discussion

7:50 am – 7:54 am

241 - Anterior Cruciate Ligament Reconstruction with
Quadriceps Tendon: Intra-Graft Locking Technique

*Colin Mansfield, MD, Kaiser Permanente, TPMG: Drexel
University College of Medicine*

7:54 am – 7:58 am

342 - Bone Shape Score Predicts Patellar Tendinopathy
Grades in Basketball Players

*Andrew M. Schmidt, BS, ME, Kaiser Permanente School of
Medicine*

7:58 am – 8:02 am

408 - Using Machine Learning to Predict Overnight Stays
After Patellar Tendon Repair Surgery

*Sarah Lu, BA, California University of Science and
Medicine*

8:02 am – 8:05 am

Discussion

Rapid Fire Session 1D – Trauma Tibial Plateau (*Fountain West*)

Moderators: Julius A. Bishop, MD, *Stanford University*
Justin M. Haller, MD, *University of Utah*

- 7:35 am – 7:39 am 81 - Outcomes of Isolated Medial Tibial Plateau Fractures by Fracture Morphology
Jacquelyn P. Cruz, MD, Stanford University
- 7:39 am – 7:43 am 173 - Pediatric Tibial Plateau Fractures: Long-Term Clinical and Patient Reported Outcomes
Willie Dong, BS, University of Utah
**Presented by Justin M. Haller, MD*
- 7:43 am – 7:47 am 15 - Temporary Stabilization of Tibia Fractures: Does External Fixation or Temporary Plate Fixation Result in Better Outcomes?
Cody L. Walters, BS, University of California Davis School of Medicine
- 7:47 am – 7:50 am Discussion
- 7:50 am – 7:54 am 156 - Hinged-Knee Brace Use Effect on ROM following Tibial Plateau ORIF
Lukas Foster, MD, Cedars-Sinai Medical Center
- 7:54 am – 7:58 am 107 - Early External Fixation of Tibial Plateaus Increases Compartment Syndrome Rates
Julian Wier, BS, University of Southern California Keck School of Medicine
- 7:58 am – 8:02 am 244 - Biomechanical Comparison of Locked vs. Non-Locked Periarticular Plating of Schatzker II Tibial Plateau Fractures
Ryan Beyer, BS, Orthopaedic Biomechanics Laboratory, Congress Medical Foundation
- 8:02 am – 8:05 am Discussion

Rapid Fire Session 1E – Ortho Oncology (Seacliff)

Moderators: J. Dominic Femino, MD, *University of Southern California*
R Lor Randall, MD, *University of California, Davis*

- 7:35 am – 7:39 am 18 - Limb Lengthening Following Internal Hemipelvectomy Improves Gait and Body Image
Carsyn Dykes, BS, Upstate Medical University

- 7:39 am – 7:43 am 19 - Topical Antibiotics Decrease Wound Related Infections Following Extremity Sarcoma Surgery
Frank Chiarappa, MD, Naval Medical Center San Diego
**Presented by Connor Trimm, BS*
- 7:43 am – 7:47 am 235 - Percutaneous Treatment of Pelvic Metastases Improves Pain and Overall Health
Frank Chiarappa, MD, UCSD
**Presented by Emily Pedrick, BA*
- 7:47 am – 7:50 am Discussion
- 7:50 am – 7:54 am 20 - Timing of Flap Reconstruction Following Soft Tissue Sarcoma Surgery
Frank Chiarappa, MD, Naval Medical Center San Diego
**Presented by Liane M. Chun, MD*
- 7:54 am – 7:58 am 265 - Fracture Risk of Benign Bone Lesions in the Long Bones of the Pediatric Population
Shengqing Wang, BA, University of Texas Southwestern Medical Center
- 7:58 am – 8:02 am 80 - Long-Term Results of Calcium Phosphate Cement After Curettage
John C. Shapton, MD, San Francisco Orthopedic Residency Program
- 8:02 am – 8:05 am Discussion
- 8:05 am – 8:25 am **Focused Breakfast Presentation**
**CME Credit Not Available*
- 8:35 am – 8:55 am** **Break – Please visit exhibits (Salons A, B, C & D)**
- Symposium 1 – Creating Sustained Success in Academic or Private Practice**
Moderator: Darrel S. Brodke, MD, *University of Utah*
- 8:55 am – 9:05 am Managing Up: Creating Synergy with the Health System
Jay R. Lieberman, MD, University of Southern California
- 9:05 am – 9:15 am Making the Health System Your Partner
Mark H. Getelman, MD, Southern California Orthopedic Institute
- 9:15 am – 9:25 am Recruitment, Retention, and Diversity: Keys to Long-Term Success

Paul Tornetta, MD, Boston Medical Center

9:25 am – 9:35 am

Efficiency in Your ASC
*William B. Stetson, MD, Stetson Lee Orthopedics/
University of Southern California*

9:35 am – 9:55 am

Discussion

Concurrent ICL 1A – Complex Shoulder Instability in the Young Athlete

Moderator: Seth Gamradt, MD, *Keck Medicine of USC*

10:00 am – 10:10 am

Remplissage – Evidence and Technique
Frank Petrigliano, MD, Keck Medicine of USC

10:10 am – 10:20 am

Latarjet: Open vs. Arthroscopic
Michael B. Banffy, MD, Cedars Sinai Kerlan-Jobe Institute

10:20 am – 10:30 am

Distal Tibial Allograft: When and How?
Seth Gamradt, MD, Keck Medicine of USC

10:30 am – 10:40 am

Arthroscopic Bankart Repair: Tips and Tricks
Dean Wang, MD, University of California, Irvine

10:40 am – 11:00 am

Discussion

Concurrent ICL 1B – Hot Topics in Hand Surgery (Salon E)

Moderator: Fraser Leversedge, MD, *University of Colorado*
Frank Petrigliano, MD, *Keck Medicine of USC*

10:00 am – 10:10 am

Wide Awake Hand Surgery
Luke T. Nicholson, MD, Keck Medicine of USC

10:10 am – 10:20 am

Nerve Transfers in 2024
Fraser Leversedge, MD, University of Colorado

10:20 am – 10:30 am

The Hand Surgeon's Role in Diagnosing Osteoporosis
Jeffrey Yao, MD, Stanford University

10:30 am – 10:40 am

Cost-Effectiveness in Modern Hand Surgery Practice
Brittany Garcia, MD, University of Utah

10:40 am – 11:00 am

Discussion

Concurrent ICL 1C – Tibia Fracture Updates (Salon G)

Moderator: Paul Tornetta, MD, *Boston Medical Center*

- 10:00 am – 10:10 am Is Suprapatellar the Best Way to Go?
Paul Tornetta, MD, Boston Medical Center
- 10:10 am – 10:20 am Metadiaphyseal Tibial Fractures: Nail, Plate, or Both?
Robert P. Dunbar Jr., MD, University of Washington
- 10:20 am – 10:30 am Timing of Open Fracture Fixation
Julius A. Bishop, MD, Stanford University
- 10:30 am – 10:40 am Management of Tibial Bone Defects
John A. Scolaro, MD, University of California, Irvine
- 10:40 am – 11:00 am Discussion
- 11:05 am – 11:25 am** **Break – Please visit exhibits (Salons A, B, C & D)**

General Session 1 – Presidential Guest Speaker

Moderator: Jay R. Lieberman, MD, *University of Southern California*

**CME Credit Not Available*

- 11:25 am – 11:30 am Introduction of the Presidential Guest Speaker
Jay R. Lieberman, MD, University of Southern California
- 11:30 am – 12:05 pm What I've Learned in Having Cancer and 30 Years as a Trauma Surgeon
Milton "Chip" L. Routh, MD, McGovern Medical School at UTHealth
- 12:05 pm – 12:35 pm **Focused Lunch Presentation**
**CME Credit Not Available*

General Session 2 – Board Reports

Moderator: Jay R. Lieberman, MD, *University of Southern California*

**CME Credit Not Available*

- 12:35 pm – 12:40 pm OREF Report
Lee Grossman, OREF
- 12:40 pm – 12:50 pm ABOS Report
- 12:50 pm – 1:05 pm AAOS Report
Paul Tornetta, MD, Boston Medical Center

Symposium 2 – Hip Fractures: Tips and Tricks for Successful Results

Moderator: Milton "Chip" L. Routh, MD, *McGovern Medical School at UTHealth*

- 1:05 pm – 1:15 pm Management of Intertrochanteric Hip Fractures
Paul Tornetta, MD, Boston Medical Center
- 1:15 pm – 1:25 pm Displaced Femoral Neck Fractures
Joseph T. Patterson, MD, Keck School of Medicine of USC
- 1:25 pm – 1:35 pm Indications for Hemiarthroplasty in 2024
Derek Ward, MD, University of California, San Francisco
- 1:35 pm – 1:45 pm When and How to Do a Total Hip Arthroplasty
Matthew P. Abdel, MD, Mayo Clinic
- 1:45 pm – 2:05 pm Discussion

Rapid Fire Session 2A – Arthroplasty Hip (Driftwood)

Moderators: Matthew P. Abdel, MD, *Mayo Clinic*
Steven Yang, MD, *University of California, Irvine*

syangz@gmail.com

- 2:10 pm – 2:14 pm 187 - Dexamethasone Utilization Associated with Fewer
Pulmonary Complications During Cemented THA
*Andrew Vega, MD, University of Southern California / Los
Angeles General Medical Center*
- 2:14 pm – 2:18 pm 203 - Low-Level Evidence used to Substantiate Insurance
Coverage Policies for Arthroplasty
Sahil S. Telang, BS, Keck School of Medicine of USC
- 2:18 pm – 2:22 pm 225 - CBC-Based Ratios Identify TJA Patients Likely to
Benefit From Dexamethasone
*Julian Wier, BS, University of Southern California Keck
School of Medicine*
**Presented by Ian A. Jones, MD*
- 2:22 pm – 2:26 pm 86 - Congenital Clotting Disorders Increase Risk of PJI
After THA
Caleb Durst, Cedars Sinai Medical Center
- 2:26 pm – 2:30 pm 102 - Technology Alone Is Not Adequate for THA Limb
Length Restoration
Regina Chi, BS, Cedars-Sinai Medical Center
- 2:30 pm – 2:34 pm 403 - Oral Antibiotics Do Not Reduce Infection
Complications in Hip Arthroplasty
*Sanjay Kubsad, BS, University of Washington School of
Medicine*

2:34 pm – 2:40 pm	Discussion
2:40 pm – 2:44 pm	198 - Quantifying the Age-Dependent Risk of Periprosthetic Fracture Following Cementless THA <i>Kyle M. Griffith, MD, Keck School of Medicine of USC</i>
2:44 pm – 2:48 pm	255 - Cervical Myelopathy is a Risk Factor for Falls and Complications After Total Hip Arthroplasty <i>Russell N. Stitzlein, MD, University of California, Irvine</i>
2:48 pm – 2:52 pm	11 - Exploring Preoperative Arthritis Severity's Influence on Total Hip Arthroplasty Outcomes <i>Isabella Amado, BS, Anne Burnett Marion School of Medicine at TCU</i>
2:52 pm – 2:56 pm	309 - Outcomes of Staged vs Simultaneous Bilateral Total Hip Arthroplasty <i>Sean S. Rajae, MD, MS, Cedars-Sinai Medical Center</i> <i>*Presented by Jawad Najdawi, MD</i>
2:56 pm – 3:00 pm	181 - Collared Femoral Stems are Biomechanically Superior in Osteoporotic Bone. <i>Sean S. Rajae, MD, MS, Cedars-Sinai Medical Center</i>
3:00 pm – 3:04 pm	43 - Comparison of Metal Ion Levels in MoP and CoP THA <i>John C. Shapton, MD, San Francisco Orthopedic Residency Program</i>
3:04 pm – 3:10 pm	Discussion

Rapid Fire Session 2B – Artificial Intelligence & Machine Learning in Orthopaedics

(Sunrise A)

Moderators: Joseph Liu, MD, *University of Southern California*

2:10 pm – 2:14 pm	277 - Identifying Risk Factors for Arthrofibrosis after TKA using Machine Learning <i>Sean S. Rajae, MD, MS, Cedars-Sinai Medical Center</i> <i>*Presented by Andrew P. Nakla, BS</i>
2:14 pm – 2:18 pm	285 - Machine Learning and Predicting Length of Stay Following Patellofemoral Arthroplasty <i>Adam LaFleur, DO, Riverside University Health System</i>

2:18 pm – 2:22 pm	314 - Application of Supervised Machine Learning Models to Predict Deleterious Outcomes Following Elective MPFL Reconstruction <i>Richard C. Rice, MD, Loma Linda University Hospital</i>
2:22 pm – 2:26 pm	311 - Total-Knee Arthroplasty Revision Outcomes after Aseptic Loosening: Machine Learning-Based Predictions <i>Sultan Baz, Loma Linda University Hospital</i>
2:26 pm – 2:30 pm	368 - Leveraging Machine Learning to Evaluate the Validity of the 6P's in the Diagnosis of Acute Compartment Syndrome <i>Yasser C. Bouklouch, BSc, MSc, PharmD, Research Institute of the McGill University Hospital Center</i>
2:30 pm – 2:34 pm	317 - Artificial Intelligence to Model Length of Stay Following Elective Achilles Tendon Repair <i>Victor Hong, Loma Linda University Hospital</i>
2:34 pm – 2:40 pm	Discussion
2:40 pm – 2:44 pm	450 - Utilization of Machine Learning Algorithms in Predicting Length of Hospital Stay Following Total Ankle Arthroplasty and Contributing Risk Factors <i>Tadiwanashe C. Chirongoma, BA, Austin Orthopedic Institute</i>
2:44 pm – 2:48 pm	401 - Using Machine Learning in Predicting Same-Day-Discharge Following Achilles Tendon Ruptures Repair <i>Michael Fei, BA, Creighton University School of Medicine</i>
2:48 pm – 2:52 pm	308 - Predicting Post-Operative Outcomes Following Distal Radius Osteosynthesis Using Machine Learning <i>Trevor R. Case, BS, BA, Loma Linda University Hospital</i>
2:52 pm – 2:56 pm	229 - Can Machine Learning Predict Postoperative Compensatory Sagittal Parameters in AIS Surgery? <i>Afshin Aminian, MD, Children's Hospital of Orange County</i>
2:56 pm – 3:00 pm	306 - Machine Learning Predicts Complications Following Cephalomedullary Osteosynthesis of Intertrochanteric Fractures <i>Victoria Holm, BS, California University of Science and Medicine</i>

3:00 pm – 3:04 pm 313 - Use of Supervised Machine Learning Algorithms in the Predicting Extended Length of Stay following Revision Hip Arthroplasty for Aseptic Loosening
Sarah Lu, BA, Loma Linda University Hospital

3:04 pm – 3:10 pm Discussion

Rapid Fire Session 2C – Pediatrics (*Fountain East*)

Moderators: Lisa Cao, MD, *Children's Hospital Orange County*
Meghan N. Imrie, MD, *Stanford University*

2:10 pm – 2:14 pm 202 - Utility of “Pavlik Holiday” for Dysplastic Hips Following Failure of Pavlik Harness Treatment
Maia Shohamm, Stanford University
**Presented by Meghan N. Imrie, MD*

2:14 pm – 2:18 pm 201 - The Effect of Femoral Deformity on Hip Contact Mechanics in Patients with Hip Dysplasia: A Finite Element Analysis Study
Stephanie T. Kha, MD, Stanford University
**Presented by Stephanie Pun, MD*

2:18 pm – 2:22 pm 152 - Residual Dysplasia after Pavlik in Developmental Dysplasia of the Hip
Michelle Scott, MD, University of California, Davis

2:22 pm – 2:26 pm 315 - Contemporary Outcomes of Acute Slipped Capital Femoral Epiphysis Among Pediatric Patients in the United States
Jack Haglin, MD, MS, Mayo Clinic

2:26 pm – 2:30 pm 302 - Comparing Posteromedial and Centrolateral Talar Dome ROC in Young Athletes
Olivia Okoli, BA, Stanford University

2:30 pm – 2:34 pm 174 - Improving Pediatric Elbow Fracture Recognition in Training Physicians
Brittany Woodall, DO, Children's Hospital Orange County

2:34 pm – 2:40 pm Discussion

2:40 pm – 2:44 pm 180 - Treatment of Pediatric Supracondylar Humerus Fractures Using Mini C-Arm Fluoroscopy
Tyler R. Mange, MD, University of California Irvine
**Presented by Amy K. Williams, MD*

- 2:44 pm – 2:48 pm 456 - Variation in the Treatment of Pediatric Lateral Condyle Fractures of the Humerus (PLCFH)
Asahi Murata, MPH, University of Arizona College of Medicine Phoenix
- 2:48 pm – 2:52 pm 232 - Firearm-Induced Pediatric Peripheral Nerve Injuries Need Emergent Treatment
Jingyanshan Li, BS, University of California, Davis
- 2:52 pm – 2:56 pm 399 - Demographic Disparities in Industry Payments to Pediatric Orthopedic Surgeons
Kendall M. Schwartz, BA, University of Arizona College of Medicine - Phoenix
- 2:56 pm – 3:00 pm 444 - Benefits of Geniculate Peripheral Nerve Blocks in Adolescent ACL Reconstruction
Richard Bowen, MD, University of California Los Angeles
**Presented Nicole J. Hung, MD*
- 3:00 pm – 3:04 pm 249 - Relationship Between Orthopaedic Diagnoses and Positive Suicide Screenings
Alyssa Barré, MD, University of Kentucky
- 3:04 pm – 3:10 pm Discussion

Rapid Fire Session 2D – Trauma Pelvis & Acetabulum (Fountain West)

Moderators: Joshua Gary, MD, *Keck School of Medicine of USC*
Milton “Chip” L. Routt, MD, *McGovern Medical School at UTHealth*

- 2:10 pm – 2:14 pm 343 - Obturator Foramen Safe Zone for Pubic Symphysis Cable Cerclage
Raymond Bui, BS, USC Keck School of Medicine
- 2:14 pm – 2:18 pm 93 - A Shift toward Earlier Weight Bearing after Pelvic Ring Fixation
Bradley A. Carlson, MD, MBA, Loma Linda University Health
- 2:18 pm – 2:22 pm 380 - Anterior Internal vs. External Fixation Outcomes in Unstable Pelvic Fractures
Brandan I. Sakka, MD, Keck School of Medicine of USC
- 2:22 pm – 2:26 pm 405 - Operative Management of LC1 Pelvic Fractures Increased From 2003 to 2018
Andrew M. Duong, BS, Keck School of Medicine at USC

- 2:26 pm – 2:30 pm 13 - Pelvic Stability after Anterior Fixation of Lateral Compression 1 and 2 Injuries
Pranit Kumaran, BS, Keck School of Medicine of USC
- 2:30 pm – 2:34 pm 118 - Ziehm: Reduced Radiation and Comparable Outcomes in Posterior Pelvic Fixation
Shannon Tse, BMBS, University of California, Davis School of Medicine
**Presented by Elias Jbeily*
- 2:34 pm – 2:42 pm Discussion
- 2:42 pm – 2:46 pm 398 - Autograft Harvest with Reamer-Irrigator-Aspirator vs. Acetabular Reamer
Andrew M. Duong, BS, University of Arizona College of Medicine - Phoenix
- 2:46 pm – 2:50 pm 284 - Reliability of Intraoperative Ziehm Imaging in Assessing Acetabular Fracture Reduction
Javier Guerrero, BA, UC Davis
- 2:50 pm – 2:54 pm 242 - Evaluating Surgical Approaches on Reduction Quality for Transverse Acetabulum Fractures
Andrea B. Rincon, BS, University of California, Davis
- 2:54 pm – 2:58 pm 397 - CT Scanner Patient Table Curvature May Conceal Occult Posterior Pelvic Ring Injury in LC3 and APC2 Patterns
Vivek Lakshmi Satish, BS, Keck School of Medicine
- 2:58 pm – 3:02 pm 217 - Prevalance of Suboptimal Sacral Outlet Imaging and a Technical Solution
Michael Brown, BS, Keck School of Medicine at USC
- 3:02 pm – 3:10 pm Discussion
- Rapid Fire Session 2E – General Spine (Seacliff)**
Moderators: TBD
- 2:10 pm – 2:14 pm 374 - Biodistribution and Biodegradation of a Novel Peptide Amphiphile Implant in a Rat Spinal Fusion Model
Justin Lee, MS, Northwestern University
**Presented by Avani Chopra*
- 2:14 pm – 2:18 pm **Nitin N. Bhatia, MD Travel Grant Award**

- 95 - Effect of Positional Graft Placement on Pseudarthrosis Rates in Anterior Cervical Discectomy and Fusion
Soroush Shabani, BS, University of Southern California Keck School of Medicine
- 2:18 pm – 2:22 pm 193 - Recurrent Lumbar Disc Herniation Treatment Trends: Revision Discectomy vs. Fusion
Mayilone Sathialingam, BS, University of Southern California Keck School of Medicine
- 2:22 pm – 2:26 pm 237 - Are 3D-Printed Scoliosis Spine Models Superior to Conventional Training Modalities?
Ryan A. Finkel, MD, Cedars-Sinai Medical Center
- 2:26 pm – 2:30 pm 243 - Incidental Dural Tears During Pediatric Posterior Spinal Fusions
Ryan A. Finkel, MD, Cedars-Sinai Medical Center
**Presented by Kenneth D. Illingworth*
- 2:30 pm – 2:34 pm 250 - Lumbar Disc Arthroplasty Leads to Increased Subsequent Facet Injections
Ryan A. Finkel, MD, Cedars-Sinai Medical Center
**Presented by Christopher M. Mikhail, MD*
- 2:34 pm – 2:40 pm Discussion
- 2:40 pm – 2:44 pm 304 - Fusion Surgery for Lumbar Spondylolisthesis Results in Increased Postoperative Complications
Abhinav K. Sharma, MD, University of California, Irvine
- 2:44 pm – 2:48 pm 338 - Morbidity and Mortality Rates for Single-Level, Multi-Level, and Spinopelvic Injuries in Patients with Ankylosing Spinal Disorders
Eli W. Bunzel, MD, University of Washington
**Presented by Emily Robinson Hunt*
- 2:48 pm – 2:52 pm 53 - Unanticipated Emergency Department Encounters after Elective Lumbar Fusion Surgery
Alex Villegas, BS, University of California Davis / Shriners Children's Hospital Northern California
- 2:52 pm – 2:56 pm 132 - Supine to Prone Anatomic Changes: Implications for Single-Position Prone Tranpsoas
Andy Ton, BS, University of Southern California Keck School of Medicine

- 2:56 pm – 3:00 pm 233 - Reoperation Rate Depends on Approach in Spondylolisthesis in Young Patients
Ryan A. Finkel, MD, Cedars-Sinai Medical Center
- 3:00 pm – 3:04 pm 234 - Cervical Parameters after using Patient Specific Rods for Adolescent Idiopathic Scoliosis Correction
Afshin Aminian, MD, Children's Hospital of Orange County
- 3:04 pm – 3:10 pm Discussion
- 3:10 pm – 4:40 pm **Scientific Poster** (Presenters are available to answer questions) (*Grand Ballroom Foyer*)
- 3:10 pm – 4:40 pm **Scientific E-Poster Session** (Presenters are available to answer questions) (*Driftwood, Sunrise A, Fountain East & West, and Seacliff*)

Friday, August 9th

- 6:30 am – 7:30 am **Scientific Poster** (Presenters are available to answer questions) (*Grand Ballroom Foyer*)
- 6:30 am – 7:30 am **Scientific E-Poster Session** (Presenters are available to answer questions) (*Driftwood, Sunrise A, Fountain East & West, and Seacliff*)
- 7:25 am – 7:30 am **Announcements**
Nathanael D. Heckmann, MD, Keck School of Medicine of USC
Eric W. Tan, MD, Keck School of Medicine of USC

Rapid Fire Session 3A – Diversity (*Driftwood*)

Moderators: Juliana Kwak Lee, PHD, MD, *University of Southern California*
 Ronald A. Navarro, MD, *Southern California Permanente Medical Group*

- 7:30 am – 7:34 am 274 - Underrepresentation of Orthopedic Surgeon Reviewers on NIH Study Sections
Eric Smith, MD, University of California, Irvine
- 7:34 am – 7:38 am 395 - Disparities in Female Orthopedic Surgeon Medicare Payments by Career Stage
Kendall M. Schwartz, BA, University of Arizona College of Medicine - Phoenix

- 7:38 am – 7:42 am 108 - The Positive Influence of Female Mentorship on Orthopedic Residency Applications
Lydia McKeithan, MD, University of California, Davis
- 7:42 am – 7:45 am Discussion
- 7:45 am – 7:49 am 116 - Female Orthopedic Faculty Representation Increases Female Resident Proportions
Shannon Tse, BMBS, University of California, Davis
- 7:49 am – 7:53 am 10 - Racial Diversity Trends in ACGME-Accredited Orthopaedic Fellowships From 2011 to 2022
Deborah J. Nelson, BS, University of Arizona College of Medicine - Tucson
- 7:53 am – 7:57 am 115 - Sex-Related Differences and Racial Disparities in Elective Lumbar Fusion Surgery
Zachary Boozé, University of California, Davis
**Presented by Brandan Kha La*
- 7:57 am – 8:00 am Discussion

Rapid Fire Session 3B – Arthroplasty Technology/Other (Sunrise A)

Moderators: Francis B. Gonzales, MD, *University of California, San Diego*

- 7:30 am – 7:34 am 77 - Image-Free Robotic-Assisted-TKA vs. Manual Instrumentation Improves Knee Society Function Score
Andrew I. Spitzer, MD, Cedars Sinai Medical Center
- 7:34 am – 7:38 am 221 - PROMIS Scores: No Outcome Differences in Robotic vs. Non-Robotic TKA
Caleb Durst, BS, Cedars-Sinai Medical Center
**Presented by Andrew I. Spitzer, MD*
- 7:38 am – 7:43 am Discussion
- 7:43 am – 7:47 am 54 - Patient Specific Alignment in Total Knee Arthroplasty Utilizing Handheld Navigation
Cooper Ehlers, BS, Georgetown University School of Medicine
- 7:47 am – 7:51 am 356 - Safety of Administering Cefazolin in Beta-Lactam Allergic Patients Undergoing Elective Orthopaedic Procedures
Zachary H. Clarke, MD, University of Colorado School of Medicine

7:51 am – 7:55 am 59 - BMI is not Associated with Risk of Mechanical Failure after TKA
Ryland P. Kagan, MD, Oregon Health & Science University

7:55 am – 8:00 am Discussion

Rapid Fire Session 3C – General Hand (*Fountain East*)

Moderators: Ali Azad, MD, University of Southern California
Kalpit N. Shah, MD, *Stanford University*

7:30 am – 7:34 am 124 - The Association between Health Literacy and Patient Outcomes in Distal Radius Fractures
Katherine Miclau, BA, University of California, San Francisco

7:34 am – 7:38 am **Robert R. Slater Jr., MD Travel Grant Award**
38 - De Quervain's Tenosynovitis: As Seen from the Perspective of the Patient
Harin B. Parikh, MD, Cedars-Sinai Medical Center

7:38 am – 7:42 am 371 - Early Outcomes in Endoscopic vs. Open Carpal Tunnel Release
Robert J. Reitz, MD, Stanford University
**Presented by Kalpit N. Shah, MD*

7:42 am – 7:45 am Discussion

7:45 am – 7:49 am 457 - Comparison of the Rate of Delayed/Nonunion in Scaphoid Fractures Receiving Non-Steroidal Anti-Inflammatory Medications
Adam B. Thompson, BS, University of Vermont Larner MD College of Medicine
**Presented by Eugenia Lin, MD*

7:49 am – 7:53 am 471 - The Age-Specific Performance of Four-Corner Arthrodesis and Proximal Row Carpectomy: A Systematic Review
John Heifner, MD, MS, Miami Bone and Joint Institute

7:53 am – 7:57 am 339 - Are Restrictions Necessary Following Plating of Displaced Distal Radius Fractures?
Taylor M. Southworth, MD, University of Southern California

7:57 am – 8:00 am Discussion

Rapid Fire Session 3D – Pediatrics (*Fountain West*)

Moderators: Meghan N. Imrie, MD, *Stanford University*

Amy K. Williams, MD, *University of California Irvine*

7:30 am – 7:34 am 231 - Managing Firearm Injuries with Vascular Deficits in the Pediatric Population
Jingyanshan Li, BS, University of California, Davis

7:34 am – 7:38 am 266 - Association Between Scoliosis Subtypes and Positive Suicide Screenings
Alyssa Barré, MD, University of Kentucky

7:38 am – 7:42 am 291 - Psychosocial Support for Pediatric Orthopedic Patients Injured by Guns: Is There Room for Improvement?
Aliyah Walker, BS, University of California Davis and Shriners Children's Hospital Northern California

7:42 am – 7:45 am Discussion

7:45 am – 7:49 am 171 - Investigating Parameters to Achieve Optimal Lateral Knee Radiographs in Children
Jackson T.W. Helms, BS, Children's Hospital Orange County

7:49 am – 7:53 am 361 - Ending False-Positive Sepsis Alerts: Characterizing Sterile Inflammation from Elective Surgery
Naadir H. Jamal, BA, Vanderbilt University School of Medicine

7:53 am – 7:57 am 207 - Limiting Throwing Related Pain In Youth Athletes: Buckets vs. Braces
Nicholas Bast, DO, Children's Hospital Orange County

7:57 am – 8:00 am Discussion

Rapid Fire Session 3E – Shoulder & Elbow (*Seacliff*)

Moderators: Reza Omid, MD, *University of Southern California*

Michael A. Stone, MD, *Cedars-Sinai Medical Center*

7:30 am – 7:34 am 22 - Early Postoperative Opioid Use in Total Shoulder Arthroplasty Is Associated with Dose-Dependent Risk of Major Surgical and Medical Complications
Cory K. Mayfield, MD, University of Southern California
**Presented by Maya S. Abu-Zahra, BA*

- 7:34 am – 7:38 am 36 - Predictors of Early Mortality Following Reverse Shoulder Arthroplasty
Dang-Huy Do, MD, The University of Texas Southwestern Medical Center
- 7:38 am – 7:42 am 205 - Computational Modeling of Stress-Riser Effects of Reverse Total Shoulder Screw Placement
Zachary R. Wuthrich, BS, University of Colorado School of Medicine
- 7:42 am – 7:45 am Discussion
- 7:45 am – 7:49 am 223 - Glenohumeral Stability Before and after SLAP Tear and Repair vs. Biceps Tenodesis
Victor T. Hung, BS, Congress Medical Foundation, Pasadena
- 7:49 am – 7:53 am 252 - Arthroscopic Eden-Hybinette and Remplissage for Severe Bipolar Bone Loss
Craig Johnson, DO, Madigan Army Medical Center Orthopaedics
- 7:53 am – 7:57 am 283 - Albumin Status as a Prognostic Indicator following Revision Total Shoulder Arthroplasty
Steven H. Liu, BS, Stony Brook University
- 7:57 am – 8:00 am Discussion
- 8:05 am – 8:25 am **Focused Breakfast Presentation - DePuy**
Kinematic Knee Restoration with VELYS Robotic Assisted Solution and ATTUNE Medial Stabilized Knee System
Sean Rajae, MD
**CME Credit Not Available*
- 8:35 am – 8:55 am** **Break – Please visit exhibits (Salons A, B, C & D)**

Symposium 3 – Preventing Infections in Orthopaedic Surgery

Moderator: Javad Parvizi, MD, FRCS, *Acibadem University, Istanbul*

- 8:55 am – 9:05 am Total Joint Arthroplasty: 10 Steps to Prevent Infection
Javad Parvizi, MD, FRCS, Acibadem University, Istanbul
- 9:05 am – 9:15 am Preventing Infection in the Trauma Patient: Open Fracture Management
Joshua Gary, MD, Keck School of Medicine of USC

9:15 am – 9:25 am Shoulder Infection Update: Preventing Deep Infection in TSA
Christopher D. Joyce, MD, University of Utah

9:25 am – 9:35 am Minimizing Risk of Infection in The Spine Patient: Long-Instrumented Fusion to Microdiscectomy
Raymond J. Hah, MD, Keck School of Medicine of USC

9:35 am – 9:55 am Discussion

Concurrent ICL 2A – Acetabular Fractures and Pelvic Ring Injuries

Moderator: Milton “Chip” L. Routt, MD, *McGovern Medical School at UTHHealth*

10:00 am – 10:10 am Avoiding and Salvaging Problems in Acetabular and Pelvic Surgery
John M. Garlich, MD, Cedars Sinai Medical Center

10:10 am – 10:20 am Which Pelvic and Acetabular Injuries Warrant Urgent Surgery
Augustine M. Saiz, MD, University of California, Davis

10:20 am – 10:30 am Handling Complex Related/Associated Injuries in Patients with Pelvic and Acetabular Trauma
Milton “Chip” L. Routt, MD, McGovern Medical School at UTHHealth

10:30 am – 10:40 am Pelvic and Acetabular Technology Updates and Recent Advances
Philip K. Lim, MD, University of California, Irvine

10:40 am – 11:00 am Discussion

Concurrent ICL 2B – Ankle and Hindfoot Surgery: It’s A Brave New World (Salon E)

Moderator: Eric Giza, MD, *University of California, Davis*

10:00 am – 10:10 am Ankle Fusion: Old Faithful (Open, Arthroscopic, MIS)
Thomas G. Harris, MD, UCLA-Harbor Medical Center

10:10 am – 10:20 am Ankle Replacement: The New Gold Standard?
Eric W. Tan, MD, Keck School of Medicine of USC

10:20 am – 10:30 am If it Can’t Be Fixed, Make a New One? (Total Talus, Patient Specific Hemi Talus/Tibia)
Eric Giza, MD, University of California, Davis

10:30 am – 10:40 am Hindfoot Fusion and Limb Salvage: 3D-Printed Cage
Daniel U. Thuillier, MD, University of California, San Francisco

10:40 am – 11:00 am Discussion

Concurrent ICL 2C – Complications and THA: Management and Treatment (*Salon G*)

Moderator: Jay R. Lieberman, MD, *University of Southern California*

10:00 am – 10:10 am The Draining Wound: The First Week
Nathanael D. Heckmann, MD, Keck School of Medicine of USC

10:10 am – 10:20 am Chronic Periprosthetic Joint Infection
Javad Parvizi, MD, Acibadem University, Istanbul

10:20 am – 10:30 am Periprosthetic Fracture
Matthew P. Abdel, MD, Mayo Clinic

10:30 am – 10:40 am Instability following THA: Work-Up and Management
James Huddleston, MD, Stanford University

10:40 am – 11:00 am Discussion

11:05 am – 11:35 am **Lunch Break with Exhibitors – Lunch Provided** (*Salons A, B, C & D*)

11:35 am – 11:45 am **Presentation of the Blair Filler Award**
**CME Credit Not Available*

General Session 3 – Howard Steel Lecturer

Moderator: Jay R. Lieberman, MD, *University of Southern California*

**CME Credit Not Available*

11:45 am – 12:45 pm Tribal Leadership
David Logan, PhD, USC Marshall

Symposium 4 – Enhancing Revenue Generation in Your Practice

Moderator: James Huddleston, MD, *Stanford University*

12:45 pm – 12:55 pm Maximizing Your Coding
Randy Kautz, MBA, MHA, CPC, COC, CPC-I, Keck Medicine of USC

12:55 pm – 1:05 pm How to Enhance Revenue in an Ambulatory Surgery Center: The Management Perspective

David W. Odell, CPA, Medbridge

1:05 pm – 1:15 pm

An Orthopaedic Medicolegal Practice
Alexis E. Dixon, MD, OrthoLegal

1:15 pm – 1:25 pm

Ancillary Services
Amir Mostofi, MD, Risser Orthopaedic Group

1:25 pm – 1:45 pm

Discussion

1:45 pm – 2:00 pm

Refreshment Break

Rapid Fire Session 4A – Revision Arthroplasty & Postoperative Complications (*Driftwood*)

Moderators: Nathanael D. Heckmann, MD, *Keck School of Medicine of USC*
James Huddleston, MD, *Stanford University*

2:05 pm – 2:09 pm

328 - Evaluating Care Migration Patterns of Patients: How Does Changing the Treating Surgeon from Primary to Revision Arthroplasty Impact Outcomes?
Sean Sequeira, BS, Union Memorial Hospital

2:09 pm – 2:13 pm

185 - The Modular Cup-in-Cup Technique in Revision Total Hip Arthroplasty
Nathanael D. Heckmann, MD, Keck School of Medicine of USC

2:13 pm – 2:17 pm

196 - Effect of BMI on Risk of Postoperative Complications Following THA
Madeleine Orringer, MD, Keck School of Medicine of University of Southern California

2:17 pm – 2:21 pm

224 - CBC Ratios Predict Adverse Event Risk After TJA
Ian A. Jones, MD, Keck School of Medicine of USC

2:21 pm – 2:25 pm

253 - The Role of Perioperative Fluid Resuscitation on Same Day Total Joint Arthroplasty Discharges at a Level 1 Academic Center
Brandon E. Lung, MD, University of California, Irvine

2:25 pm – 2:35 pm

Discussion

2:35 pm – 2:39 pm

218 - Accessory Portal in the Direct Superior Hip Approach Reduces Complications
Richard T. Auran, MD, Cedars-Sinai Medical Center
**Presented by Brad L. Penenberg, MD*

- 2:39 pm – 2:43 pm 57 - Stimulant Use in Total Hip Arthroplasty Carries Increased Risk for Post-Operative Surgical and Medical Complications
Mackenzie Kelly, MD, Oregon Health & Science University
- 2:43 pm – 2:47 pm 189 - GLP-1 Agonists Associated with Low Anesthesia-Related Complication Risk Before TJA
Ryan C. Palmer, University of Southern California Keck School of Medicine
**Presented by Natalie Kistler, BS*
- 2:47 pm – 2:51 pm 470 - BMI is Weakly Associated with Peri-Incisional Adiposity in Primary Total Knee Arthroplasty Patients
John Heifner, MD, MS, Miami Bone and Joint Institute
- 2:51 pm – 2:55 pm 197 - Effect of BMI on Risk of Postoperative Complications Following TKA
Sagar Telang, BS, Keck School of Medicine of USC
**Presented by Brandon Yoshida, MD*
- 2:55 pm – 3:05 pm Discussion

Rapid Fire Session 4B – Foot & Ankle (Sunrise A)

Moderators: Daniel K. Moon, MD, *University of Colorado School of Medicine*
Eric W. Tan, MD, *Keck School of Medicine of USC*

- 2:05 pm – 2:09 pm 176 - Qualitative Weight-Bearing Computed Tomography Evaluation of Müller-Weiss Disease Using a Three-Dimensional Video Foot Model
Brady T. Williams, MD, University of Colorado
- 2:09 pm – 2:13 pm 333 - Sagittal Alignment of Foot in Relation to the Tibia in Hindfoot Arthrodesis with TTC Nail Affects Surgical Outcomes
Sean M. O'Leary, BA, BSA, University of Texas Medical Branch
- 2:13 pm – 2:17 pm 111 - Impact of Surgeon Type on Total Ankle Arthroplasty Outcomes
Devon Nixon, MD, University of Utah
- 2:17 pm – 2:21 pm 375 - Syndesmosis Screws or Suture Button? The Statistical Fragility of the Literature for Treatment of Syndesmosis Injury
David Clark, BS, University of Texas Medical Branch
**Presented by Jeffrey Shi, MD*

- 2:21 pm – 2:25 pm 305 - Post-Operative Wound Complications using Rapide vs. Nylon Sutures
Jacob I. Priester, MD, University of California, Davis
- 2:25 pm – 2:35 pm Discussion
- 2:35 pm – 2:39 pm 113 - Impact of Surgical Setting on Total Ankle Arthroplasty Outcomes
Devon Nixon, MD, University of Utah
**Presented by Hyunkyu Ko*
- 2:39 pm – 2:43 pm 327 - Peroneal Tendon Repair with Retrofibular Groove Deepening is Associated with Decreased Rates of Revision Peroneal Tendon Repair Procedures Compared to Repair Without Groove Deepening: A Propensity-Matched Analysis
Sean Sequeira, BS, Union Memorial Hospital
- 2:43 pm – 2:47 pm 142 - Impact of Social Deprivation on Outcomes in Hallux Valgus Surgery
Devon Nixon, MD, University of Utah
**Presented by Tyson Compton, BS*
- 2:47 pm – 2:51 pm 89 - Extensor Retinaculum Syndrome: A Novel Adult Case Series
Tadiwanashe Chirongoma, Loma Linda University Health
**Presented by Bradley A. Carlson, MD, MBA*
- 2:51 pm – 2:55 pm 245 - Prophylactic Synthetic Matrix Incorporation for Incisions at Risk for Complication
Nathaniel E. Zona, BA, University of Colorado School of Medicine
- 2:55 pm – 3:05 pm Discussion

Rapid Fire Session 4C – Pediatrics (*Fountain East*)

Moderators: Juliana Kwak Lee, PHD, MD, *University of Southern California*
 Robert M. Kay, MD, *Children's Orthopaedic Center*

- 2:05 pm – 2:09 pm 146 - Risks of Nonunion of Distal Femur Periprosthetic Fractures
Adam Schlauch, MD, San Francisco Orthopaedic Residency Program
**Presented by Benjamin Crawford, MD*

- 2:09 pm – 2:13 pm 29 - Orthopaedic Quality Measures in Ambulatory Surgery Centers: A Systematic Review
Eli M. Snyder, BS, University of Hawaii John A. Burns School of Medicine
- 2:13 pm – 2:17 pm 204 - Is Fixation of Butterfly Fragments Necessary for Femoral Shaft Fractures?
Om Patel, MBS, University of California, Davis
- 2:17 pm – 2:21 pm 227 - Alignment Analysis of Retrograde Nail Implants in Distal Femur Fractures
Juanita M. Velasco-Castro, University of California, Davis
- 2:21 pm – 2:25 pm 194 - Subtrochanteric Fracture Fixation and Reduction Methods: Radiographic and Clinical Outcomes
Michelle Scott, MD, University of California, Davis Medical Center
- 2:25 pm – 2:33 pm Discussion
- 2:33 pm – 2:37 pm 92 - Radiation During Antegrade Nailing of Femur Fractures Reduced by Distal Targeting Arm
Mackinzie A. Stanley, BA, California University of Science and Medicine
- 2:37 pm – 2:41 pm 278 - No Cost Differences between Fixation Types for Distal Femur Fractures
Tyler Thorne, MD, University of Utah
**Presented by Justin M. Haller, MD*
- 2:41 pm – 2:45 pm 121 - Small Caliber Intramedullary Nails for Tibial Shaft Fractures
Shannon Tse, BMBS, University of California, Davis
- 2:45 pm – 2:49 pm 157 - Patient-Reported Outcomes Comparison by Start-Site Approach for Tibial Shaft Fractures
Lukas Foster, MD, Cedars-Sinai Medical Center
- 2:49 pm – 2:53 pm 238 - Timing of Surgical Debridement for Open Tibia Shaft Fractures
Aziz Saade, MD, University of California, Davis
**Presented by Juanita M. Velasco-Castro*
- 2:53 pm – 2:57 pm 94 - Distal Targeting Arm Reduces Radiation During Placement of Tibia Nails

Mackinzie A. Stanley, BA, California University of Science and Medicine

2:57 pm – 3:05 pm

Discussion

Rapid Fire Session 4D – Sports General (*Fountain West*)

Moderators: Michael Charles, MD, *Kaiser Permanente*

Brent R. Davis, MD, *Kaiser Permanente*

2:05 pm – 2:09 pm

412 - Analysis of Outcomes From Meniscectomy With or Without Concomitant Synovectomy

Kyle Williams, BS, niversity of Colorado Anschutz Medical Campus

2:09 pm – 2:13 pm

316 - Screening Athletes for High-Risk Landing Patterns using Microsoft Kinect

Matthew T. Gulbrandsen, MD, Loma Linda University

**Presented by Tate Cowley*

2:13 pm – 2:17 pm

John M. Itamura, MD Travel Grant Award

66 - Medial Meniscus Tears with Grammar Signs Benefit from Operative Intervention

Lydia McKeithan, MD, University of California, Davis

2:17 pm – 2:21 pm

188 - Deep Vein Thrombosis (DVT) Risks with OCPs in Lower Extremity Procedures

Emily N. Moya, BS, Stanford University School of Medicine

2:21 pm – 2:25 pm

17 - Characterizing Pickleball Related Injuries from 2017-2022: A Single-Institution Study

Simone Herzberg, Vanderbilt Medical School

2:25 pm – 2:29 pm

23 - Why Do Athletes Fail to Return to Sport After Latarjet? A Systematic Review and Meta-Analysis

Cory K. Mayfield, MD, University of Southern California

**Presented by Maya S. Abu-Zahra, BA*

2:29 pm – 2:35 pm

Discussion

2:35 pm – 2:39 pm

427 - Medial Meniscus Pathology and Tibiofemoral Laxity Before/After ACL Reconstruction

Jacob S. Ghahremani, BA, Kaiser Permanente Bernard J. Tyson School of Medicine

**Presented by McKenzie Culler*

- 2:39 pm – 2:43 pm 141 - Studies with Direct Industry Affiliation are More Likely to Report Positive Results in Randomized Controlled Trials for Platelet-Rich Plasma Use in Rotator Cuff Pathology
Jacob L. Kotlier, BA, University of Southern California
- 2:43 pm – 2:47 pm 340 - Elbow Flexor Tendon Repair in the Professional Pitcher
Karch M. Smith, MD, University of California San Diego Health
- 2:47 pm – 2:51 pm 391 - Impact of Pre-Operative Psychiatric Diagnoses on Outcomes after Partial Meniscectomy
Ankit Hirpara, MS, University of Colorado School of Medicine
**Presented by Kyle Williams, BS*
- 2:51 pm – 2:55 pm 432 - Meniscus Transplants Delay Arthroplasty in Patients Over 50 Years of Age
Kevin R. Stone, MD, The Stone Clinic
**Presented by Simaron Dhillon, MS*
- 2:55 pm – 2:59 pm 367 - PT Utilization Effect on Isometric Strength Testing following Pediatric ACLR
Owen Roth, BS, University of Washington School of Medicine
- 2:59 pm – 3:05 pm Discussion
- Rapid Fire Session 4E – General Orthopaedics (Seacliff)**
Moderators: Todd S. Kim, MD, *Palo Alto Medical Foundation*
 Jennifer Van Warmerdam, MD, *Dignity Health*
- 2:05 pm – 2:09 pm **Lawrence R. Walker, MD Travel Grant Award**
49 - Arthroscopy vs. Arthrotomy for Treatment of Septic Arthritis: A Systematic Review
Brandon Nudelman, MD, Southern California Orthopedic Institute
- 2:09 pm – 2:13 pm 445 - Patient Perceptions of Social Media Use by Orthopaedic Surgeons
Charles P. Nolte, BS, University of Colorado School of Medicine
- 2:13 pm – 2:17 pm 84 - Orthopaedic Surgery and Industry: What do Patients Believe?

Harin B. Parikh, MD, Cedars-Sinai Medical Center

2:17 pm – 2:21 pm

147 - Orthopaedic Surgery Opioid Prescription Trends from 2013 – 2021

John J. Bartoletta, MD, University of Washington

2:21 pm – 2:25 pm

383 - Health Literacy Does Not Influence Trust In Their Physician

Isabel Alvarez, MD, Harbor UCLA Medical Center

2:25 pm – 2:33 pm

Discussion

2:33 pm – 2:37 pm

415 - Radiographically-Based Diagnostic Score for Osteochondroses and Subchondral Bone Micro-Cracks/Failure

Derek T. Dee, MD, Dee Sports Orthopaedics

2:37 pm – 2:41 pm

433 - Quantifying Sleep Deprivation in Orthopedic Resident/Attending Physicians During Trauma Call

Colin D. Lipps, BS, Oregon Health & Science University

2:41 pm – 2:45 pm

112 - Patient-Reported Outcomes of Pain and Quality of Life following Implantation of Bone-Anchored Limb

Kylie Shaw, MD, University of Colorado

2:45 pm – 2:49 pm

85 - Sustainable Implementation of Electronic Health Record During Global Surgical Outreach

Andrew Gatto, University of California, San Francisco

**Presented by Katherine Miclau, BA*

2:49 pm – 2:53 pm

109 - Diagnostic Criteria for Infection After Bone-Anchored Limb Implantation

Kylie Shaw, MD, University of Colorado

2:53 pm – 2:57 pm

441 - Prevalence of Contralateral Hip and Knee Osteoarthritis in Patients Presenting for Unilateral Knee or Hip Arthroplasty

Michaela Kop, BS, University of Hawaii John A. Burns School of Medicine

**Presented by Nathan Kim, BS*

2:57 pm – 3:05 pm

Discussion

3:05 pm – 4:35 pm

Scientific Poster (Presenters are available to answer questions) (*Grand Ballroom Foyer*)

3:05 pm – 4:35 pm

Scientific E-Poster Session (Presenters are available to answer questions) (*Driftwood, Sunrise A, Fountain East & West, and Seacliff*)

Saturday, August 10th

6:40 am – 7:40 am

Scientific Poster (Presenters are available to answer questions) (*Grand Ballroom Foyer*)

6:40 am – 7:40 am

Scientific E-Poster Session (Presenters are available to answer questions) (*Driftwood, Sunrise A, Fountain East & West, and Seacliff*)

7:40 am – 7:50 am

Second Business Meeting

Jay R. Lieberman, MD, University of Southern California

7:50 am – 7:55 am

Announcements

Nathanael D. Heckmann, MD, Keck School of Medicine of USC

Eric W. Tan, MD, Keck School of Medicine of USC

Rapid Fire Session 5A – Wellness, Diversity, and Social Trends (*Driftwood*)

Moderators: Tyler Tetreault, MD, *University of Colorado*

Cynthia M. Kelly, MD, *Colorado Limb Consultants*

8:00 am – 8:04 am

272 - Sexual Harassment and Title IX Policy in Orthopaedic Surgery

Michaela Juels, University of California Los Angeles

8:04 am – 8:08 am

78 - Gender Diversity Trends in ACGME-Accredited Orthopaedic Fellowships from 2007 to 2020

Deborah J. Nelson, BS, University of Arizona College of Medicine - Tucson

8:08 am – 8:12 am

83 - Trainee Ethnic and Gender Diversity in Orthopaedic Surgery

Rishi Trikha, MD, University of California, Los Angeles

8:12 am – 8:15 am

Discussion

8:15 am – 8:19 am

276 - Burnout and Sexual Harassment Among Orthopaedic Surgeons

Michaela Juels, University of California Los Angeles

8:19 am – 8:23 am 192 - Sustainable Waste Management in Operating Rooms:
A Global Scoping Review
Emily N. Moya, BS, Stanford University School of Medicine

8:23 am – 8:27 am 430 - Barriers to Entering Surgical Subspecialties for Hijab
Wearing Medical Students
Dayana Shariff, BA, The Stone Clinic

8:27 am – 8:30 am Discussion

Rapid Fire Session 5B – Hip Arthroscopy & Hip Preservation (Sunrise A)

Moderators: Stephen K. Aoki, MD, *University of Utah*
Alexander E. Weber, MD, *University of Southern California*

8:00 am – 8:04 am 443 - Trends in Hip Arthroscopy and Periacetabular
Osteotomy for Treatment of Hip Dysplasia
Juan A. Serna, BS, University of California, San Francisco

8:04 am – 8:08 am 394 - Comparison of Outcomes after Hip Arthroscopy in
Runners and Non-Runners
Sriram Sugumaran, University of Washington

8:08 am – 8:13 am Discussion

8:13 am – 8:17 am 442 - Patient-Reported Outcome Measures in Hip
Preservation Surgery
Luke L. Sang, BS, University of California, San Francisco

8:17 am – 8:21 am 392 - Restoration of Hip Kinematics One Year after Hip
Arthroscopy for Femoroacetabular Impingement Syndrome
*Aidan J. Foley, BA, University of California, San Francisco
School of Medicine*

8:21 am – 8:25 am 45 - Effect of Socioeconomic Factors on Post-Operative
Outcomes Following Hip Arthroscopy
*Alan L. Zhang, MD, University of California, San
Francisco*

8:25 am – 8:30 am Discussion

Rapid Fire Session 5C – General Hand (Fountain East)

Moderators: Luke T. Nicholson, MD, *Keck Medicine of USC*
Jesse Kaplan, MD, *University of California, Irvine*

8:00 am – 8:04 am 60 - A Biomechanical Analysis of Oblique Metacarpal
Meta-Diaphyseal Fracture Fixation in a Cadaver Model

*Edgar Garcia-Lopez, MD, MS, University of California
San Francisco*

- 8:04 am – 8:08 am 137 - Social Determinants of Health, Race, and Distal Radius Fracture Management
Nicole J. Hung, MD, University of California Los Angeles
- 8:08 am – 8:13 am Discussion
- 8:13 am – 8:17 am 341 - Tungsten Carbide Rings Crushed and Cut: A Biomechanical Study
Ernesto Santos Quinto, MD, VCME Orthopedic Surgery Residency
- 8:17 am – 8:21 am 37 - Trapezial Resection Arthroplasty: More is Not Necessarily Better
Harin B. Parikh, MD, Cedars-Sinai Medical Center
**Presented by Zachary Hong, MD*
- 8:21 am – 8:25 am 39 - Lateral Epicondylitis: Treatment Preferences from the Patient Perspective
Harin B. Parikh, MD, Cedars-Sinai Medical Center
**Presented by Zachary Hong, MD*
- 8:25 am – 8:30 am Discussion

Rapid Fire Session 5D – Trauma General/Other (*Fountain West*)

Moderators: David H. Chafey, MD, *University of New Mexico*
John A. Scolaro, MD, *University of California, Irvine*

- 8:00 am – 8:04 am 280 - Laser-Assisted Indocyanine Green Angiography Aids in the Prediction of Soft Tissue Viability in Pilon Fractures
Avinaash Korrapati, MD, University of California, San Diego
- 8:04 am – 8:08 am **WOA/WOF Resident Travel Grant Award Winner**
282 - Methamphetamine Use is Associated with Over Two Times Greater Post-Operative Morphine Milligram Equivalent Consumption in Orthopaedic Trauma Patients
Garrett K. Berger, MD, PharmD, University of California, San Diego
- 8:08 am – 8:12 am 298 - Predictors of Repeat Washout in the Isolated Septic Knee
Avinaash Korrapati, MD, University of California, San Diego

- 8:12 am – 8:17 am Discussion
- 8:17 am – 8:21 am 267 - Syndesmotic-Only Fixation in the Treatment of Middle Third Maisonneuve Fractures
Garrett K. Berger, MD, PharmD, University of California, San Diego
**Presented by Sean Thomas, BS*
- 8:21 am – 8:25 am 393 - Operative vs. Non-Operative Management of Low Velocity Ballistic Traumatic Arthrotomies
Vishal S. Patel, BS, University of Southern California - Keck School of Medicine
- 8:25 am – 8:30 am Discussion
- Rapid Fire Session 5E – Arthroplasty Same-Day Surgery & Risk Stratification (Seacliff)**
Moderators: Ryland P. Kagan, MD, *Oregon Health & Science University*
Kathryn L. Schabel, MD, *Oregon Health & Science University*
- 8:00 am – 8:04 am 289 - Increasing Obesity Class Corresponds with DVT and PE in TKA/THA
Jason Liang, BS, University of California, Irvine
- 8:04 am – 8:08 am 144 - Lumbar ESP Outperforms PENG in Managing Pain following Primary THA
Nathanael D. Heckmann, MD, Keck School of Medicine of USC
**Presented by Sahil S. Telang, BS*
- 8:08 am – 8:12 am 402 - Cost-Effectiveness of Bisphosphonates in Preventing Periprosthetic Fracture After Hip Arthroplasty
Sanjay Kubsad, BS, University of Washington School of Medicine
- 8:12 am – 8:15 am Discussion
- 8:15 am – 8:19 am 143 - Postoperative Complications in Super Morbidly Obese Patients Undergoing Primary THA
Sagar Telang, BS, Keck School of Medicine of USC
**Presented by Brian Chih-Hsiang Chung, BS*
- 8:19 am – 8:23 am 186 - Waiting Until You're Older: Impact on THA and TKA Outcomes
Sean S. Rajae, MD, MS, Cedars-Sinai Medical Center
**Presented by Andrew P. Nakla, BS*

8:23 am – 8:27 am 353 - Estrogen Replacement Therapy Decreases Risk of Total Joint Arthroplasty Post-Operative Complications
Mackenzie Kelly, MD, Oregon Health & Science University

8:27 am – 8:30 am Discussion

8:30 am – 9:00 am

8:30 am – 9:00 am **Breakfast with Exhibitors – Breakfast Provided** (Salons A, B, C & D)

Symposium 5 – Biologics: To Infinity and Beyond!

Moderator: Jay R. Lieberman, MD, *University of Southern California*

9:00 am – 9:10 am Biologics: What you Need to Know
Constance Chu, MD, Stanford University

9:10 am – 9:20 am (Recorded) Stem Cell Therapy for Knee OA
Don Buford, MD, Texas Orthobiologics

9:20 am – 9:30 am PRP: Ready for Prime Time?
Jason Drago, MD, University of Colorado

9:30 am – 9:40 am Biologics: I See the Potential but I Need Better Data
Brian Feeley, MD, University of California, San Francisco

9:40 am – 10:00 am Discussion

Concurrent ICL 3A – Cartilage Preservation of the Knee – It's Biology and Alignment

Moderator: Jason Drago, MD, *University of Colorado*

10:05 am – 10:15 am Cartilage Transplantation (OCA, MACI)
Alexander E. Weber, MD, Keck Medicine of USC

10:15 am – 10:25 am Cartilage Restoration using Biologics
Jason Drago, MD, University of Colorado

10:25 am – 10:35 am Implantable Joint Offloading System
Tim Wang, MD, Scripps Heath

10:35 am – 10:45 am Customized 3-D Printed HTO Systems for Outpatient Osteotomies
George F. Rick Hatch III, MD, Keck Medicine of USC

10:45 am – 11:05 am Discussion

Concurrent ICL 3B – Advanced Technology and Surgical Technique Updates (Salon E)

Moderator: Jeffrey C. Wang, MD, *Keck School of Medicine of USC*

- 10:05 am – 10:15 am Enabling Technology in Spine
Ram Kiran Alluri, MD, Keck School of Medicine of USC
- 10:15 am – 10:25 am Disc Arthroplasty
Jean-Jacques Abitbol, MD, California Spine Group
- 10:25 am – 10:35 am Artificial Intelligence in Spine Surgery
Raymond J. Hah, MD, Keck School of Medicine of USC
- 10:35 am – 10:45 am Endoscopic Spine Surgery
Don Young Park, MD, University of California, Irvine
- 10:45 am – 11:05 am Discussion

Concurrent ICL 3C – Hot Topics in Knee Arthroplasty (Salon G)

Moderator: James Huddleston, MD, *Stanford University*

- 10:05 am – 10:15 am Cementless TKA: Tips and Tricks and Patient Selection
Travis Scudday, MD, Hoag Orthopedics Institute
- 10:15 am – 10:25 am Patella Resurfacing: Is it Necessary?
Lucas A. Anderson, MD, University of Utah
- 10:25 am – 10:35 am Unicondylar Knee Arthroplasty: When and How?
Kathryn L. Schabel, MD, Oregon Health & Science University
- 10:35 am – 10:45 am Same Day TKA: Patient Selection is Key
Christopher E. Pelt, MD, University of Utah
- 10:45 am – 11:05 am Discussion
- 11:05 am – 11:35 am** ***Lunch Break with Exhibitors – Lunch Provided (Salons A, B, C & D)***

General Session 4 – WOF Endowed Resident and Fellows Awards

Moderators: Nathanael D. Heckmann, MD, *Keck School of Medicine of USC*
Eric W. Tan, MD, *Keck School of Medicine of USC*

- 11:35 am – 11:41 am 40 - Outcomes of Planned vs. Unplanned Upper Extremity
Sarcoma Excisions
Seth Ahlquist, MD, University of California, Los Angeles

- 11:41 am – 11:47 am 68 - Risk Factors for the Development of Femoral Head Collapse in Osteonecrosis
Jacob Ball, MD, University of Southern California
- 11:47 am – 11:53 am 127 - Preoperative Closed Reduction of Pediatric Type 3 Supracondylar Humerus Fractures
Colin J. Carroll, MD, University of New Mexico
- 11:53 am – 11:59 am 435 - DLK1 from Fibroadipogenic Cells Prevents Fatty Muscle Degeneration in Humans
Steven M. Garcia, MD, University of California, San Francisco
- 11:59 am – 12:05 pm 310 - Machine Learning Algorithms Predict Deleterious Outcomes After Elective Trimalleolar ORIF
Richard C. Rice, MD, Loma Linda University Medical Center
- 12:05 pm – 12:11 pm 324 - Diabetes and Obesity Are Associated with Poor Postoperative Outcomes Following Multiligamentous Knee Reconstruction
Sean Sequeira, BS, Union Memorial Hospital
- 12:11 pm – 12:17 pm 65 - Quantified MRI Measurements Show the Significance of Indirect Decompression in the Lumbar Spine
Casey A. Slattery, MD, University of New Mexico
- 12:17 pm – 12:23 pm 281 - IL-1 Antagonist Prevents Chondrocyte Death in a Porcine Pilon Model
Tyler Thorne, University of Utah
- 12:23 pm – 12:29 pm **Clarence and Sherril Splithoff Pediatric Orthopaedic Surgery Award**
362 - Bedside Aspiration for Workup of the Pediatric Septic Hip
Kira F. Skaggs, MD, Stanford University
- 12:29 pm – 12:35 pm Discussion
- General Session 5 – OREF/WOF Young Investigator Awards**
Moderator: Nathanael D. Heckmann, MD, *Keck School of Medicine of USC*
Eric W. Tan, MD, *Keck School of Medicine of USC*
- 12:35 pm – 12:41 pm 58 - Modern Cementless Total Knee Arthroplasty is not Associated with Increased Revision Risk

Ryland P. Kagan, MD, Oregon Health & Science University

12:41 pm – 12:47 pm 376 - Discrete Choice Experiment: Patient Preferences for LC1 Pelvis Fracture Treatment
Joseph T. Patterson, MD, Keck Medicine of the University of Southern California

12:47 pm – 12:53 pm 140 - High Rates of Venous Thromboembolism following Closed Hip Reduction
Nathanael D. Heckmann, MD, Keck School of Medicine of USC

12:53 pm – 1:05 pm Discussion

Symposium 6 – That’s Why They Call It Practice: Lessons Learned

Moderator: Susan Bukata, MD *University of California, San Diego*

1:05 pm – 1:15 pm The First Five Years: Trial By Fire
Bradley C. Johnson, MD, Huntington Orthopedics

1:15 pm – 1:25 pm I Blinked and It Was Ten Years
Eric I. Ferkel, MD, Southern California Orthopedic Institute

1:25 pm – 1:35 pm Managing an Ever-Changing Landscape: 20 Years in Practice
Michael Shepard, MD, Orthopaedic Specialty Institute

1:35 pm – 1:45 pm Retirement: You Need to Prepare Now
Richard D. Ferkel, MD, Southern California Orthopedic Institute

1:45 pm – 2:05 pm Discussion

Rapid Fire Session 6A – Hip Fracture (Driftwood)

Moderators: David H. Chafey, MD, *University of New Mexico*
Joseph T. Patterson, MD, *Keck School of Medicine of University of Southern California*

2:10 pm – 2:14 pm 247 - 16° of Femoral Neck Rotation Leads to Arterial Collapse
Tyler Thorne, MD, University of Utah

2:14 pm – 2:18 pm 387 - Hospital Transfer for Hip Fracture Patients Associated with Higher Cost and Mortality

Elizabeth Lieberman, MD, Madigan Army Medical Center

2:18 pm – 2:22 pm

52 - Peripheral Block Effect on Postoperative Hip Fracture Pain and Mobility

Robert S. Wood, DO, Samaritan Health Services

2:22 pm – 2:26 pm

163 - Revision for Instability after DM-THA vs. Hemiarthroplasty for Femoral Neck Fractures

Brendan Shi, MD, University of California, Los Angeles

**Presented by Troy Sekimura, BS*

2:26 pm – 2:30 pm

386 - Outcomes of Percutaneous Fixation of Femoral Neck Fractures in Dialysis Patients

Katherine D. Sborov, MD, Cedars Sinai Medical Center

2:30 pm – 2:34 pm

288 - Outcomes of Hemiarthroplasty for Femoral Neck Fractures in Patients with Renal Disease

Toobenna J. Obi, BS, Cedars Sinai Medical Center

2:34 pm – 2:40 pm

Discussion

2:40 pm – 2:44 pm

413 - Statistical Fragility of the Current Literature for Operative Femoral Neck Fracture Fixation

David Clark, BS, University of Texas Medical Branch

**Presented by Jeffrey Shi, MD*

2:44 pm – 2:48 pm

409 - The Rise of Intramedullary Nailing: Twenty Year Medicare Trends in Hip Fracture Care

Coltin R. Gerhart, MS, University of Arizona College of Medicine - Phoeni

**Presented by Jack Haglin, MD, MS*

2:48 pm – 2:52 pm

439 - Impact of the COVID-19 Pandemic on Surgical Timing and Outcomes for Hip Fracture Patients

Elizabeth Lieberman, MD, Orthopedic & Fracture Specialists

2:52 pm – 2:56 pm

2 - Outcomes from the Implementation of a Geriatric Hip Fracture Protocol

Douglas Saeks, BA, Kirk Kerkorian School of Medicine

2:56 pm – 3:00 pm

104 - Neutrophil-Lymphocyte Ratios Predict Optimal Surgical Timing after Femoral Neck Fracture

Julian Wier, BS, University of Southern California Keck School of Medicine

3:00 pm – 3:04 pm 150 - Biomechanical Evaluation of a Central Collinear Entry Reconstruction Nail for Femoral Neck Fracture Prophylaxis
Sapan Shah, MD, Cedars Sinai Medical Center

3:04 pm – 3:10 pm Discussion

Rapid Fire Session 6B – General Spine (Sunrise A)

Moderator: Bradley C. Johnson, MD, *Huntington Orthopedics*
 Yashar Javidan, MD, *University of California Davis Medical Center*

2:10 pm – 2:14 pm 251 - Changes in Segmental and Lumbar Lordosis following Lumbar Interbody Fusion
Mina Ayad, BS, University of Southern California Keck School of Medicine
**Presented by Elizabeth Lechholz-Zey, BS*

2:14 pm – 2:18 pm 55 - Reducing Opioid Use and Facilitating Opioid Cessation following Anterior Cervical Spine Surgery
Dagoberto Pina, University of California, Davis
**Presented by Hania Shahzad, MD*

2:18 pm – 2:22 pm 119 - Cost-Analysis of Single-Position vs. Conventional Dual-Positioning for Lumbar Interbody Fusion
Jacob Ball, MD, Keck School of Medicine of USC
**Presented by Edward Shontz, MD*

2:22 pm – 2:26 pm 131 - Odontoid Fractures Portend Higher Mortality Risk Compared to Hip Fractures
Emily S. Mills, MD, University of Southern California Keck School of Medicine
**Presented by William J. Karakash, BS*

2:26 pm – 2:30 pm 210 - Similar Results with Less Spinal Cord Exposure: Comparison of In Situ Osteotomies with Traditional Ponte Osteotomies in AIS
John S. Vorhies, MD, Stanford University
**Presented by Ian Holyer, MD*

2:30 pm – 2:34 pm 134 - Postoperative Segmental Lordosis Following Single-Position vs. Dual-Position Lumbar Interbody Fusion
Andy Ton, BS, University of Southern California Keck School of Medicine
**Presented by Avinash Iyer, BS*

2:34 pm – 2:40 pm Discussion

- 2:40 pm – 2:44 pm 300 - Increasing Obesity Class Corresponds with Pulmonary Embolism Post-Elective Spinal Surgery
Abhinav K. Sharma, MD, University of California, Irvine
- 2:44 pm – 2:48 pm 336 - Surgical Site Infection Incidence and Risk Factors for Patients with Ankylosing Spine Disorders with Spine Fractures
Eli W. Bunzel, MD, University of Washington
- 2:48 pm – 2:52 pm 385 - Spine Surgery Expectation vs. Reality: Are Patients Getting the Outcomes They Hoped for?
Kiumars Edalati, MS, University of Washington School of Medicine
**Presented by Paul L. Wilson, BA*
- 2:52 pm – 2:56 pm 120 - Kinetic Analysis of Structural Parameters in Degenerative Lumbar Spondylolisthesis
Andy Ton, BS, University of Southern California Keck School of Medicine
- 2:56 pm – 3:00 pm 128 - National Survey of Operative Treatment Strategies for Degenerative Lumbar Spondylolisthesis
Jacob Ball, MD, Keck School of Medicine of USC
**Presented by Nicole Hang, BA*
- 3:00 pm – 3:04 pm 139 - Predictors of Ligamentum Flavum Buckling in Congenital Cervical Stenosis
Ryan C. Palmer, University of Southern California Keck School of Medicine
**Presented by William J. Karakash, BS*
- 3:04 pm – 3:10 pm Discussion

Rapid Fire Session 6C – Periprosthetic Joint Infection (*Fountain East*)

Moderator: Christopher E. Pelt, MD, *University of Utah*
Stefano A. Bini, MD, *University of California, San Francisco*

- 2:10 pm – 2:14 pm 101 - Stratifying THA PJI Risk Using the Elixhauser Comorbidity Index
Caleb Durst, Cedars Sinai Medical Center
- 2:14 pm – 2:18 pm **Paul Collins, MD Travel Grant Award**
82 - Angiotensin-Converting Enzyme Inhibition: A Potential Risk Factor for Periprosthetic Infection
Rishi Trikha, MD, University of California, Los Angeles

- 2:18 pm – 2:22 pm **Lawrence R. Walker, MD Travel Grant Award**
62 - Extended Prophylactic Antibiotics for Primary and Aseptic Revision Total Joint Arthroplasty: A Meta-Analysis
Suhas P. Dasari, MD, University of Washington
- 2:22 pm – 2:26 pm 129 - C. Difficile Infection Prior to Total Knee Arthroplasty Independently Increases Risk of Prosthetic Joint Infection
Jens Verhey, MD, Mayo Clinic Arizona
- 2:26 pm – 2:30 pm 195 - Preoperative Laboratory Values Associated with PJI in Morbidly Obese TJA
Nathanael D. Heckmann, MD, Keck School of Medicine of USC
**Presented by Sagar Telang, BS*
- 2:30 pm – 2:34 pm 199 - Preoperative HbA1c is a Poor Predictor of PJI following TJA
Ryan C. Palmer, University of Southern California Keck School of Medicine
**Presented by Natalie Kistler, BS*
- 2:34 pm – 2:40 pm Discussion
- 2:40 pm – 2:44 pm 256 - The Utility of an Elevated C-Reactive Protein Threshold in Two-Stage Revision Knee Arthroplasty Reimplantation
Ryan M. DiGiovanni, MD, University of California, Irvine
- 2:44 pm – 2:48 pm 145 - Increased Morbidity Associated with Explanation of Revision Knee Arthroplasty Components
Jacob Ball, MD, Keck School of Medicine of USC
**Presented by Dylan Dean, MD*
- 2:48 pm – 2:52 pm 226 - Knee Periprosthetic Joint Infection Treatment with Explantation, Local Antibiotic Brachytherapy, and Oral Antibiotic Therapy
Lisa Su, MD, MS, University of California Los Angeles
- 2:52 pm – 2:56 pm 200 - Super-Obesity is Associated with Increased Complication Risk following Primary TKA
Ryan C. Palmer, University of Southern California Keck School of Medicine
**Presented by Brian Chih-Hsiang Chung, BS*

2:56 pm – 3:00 pm 216 - Antibiotic Eluting Calcium Sulfate Beads in High-Risk Primary Total Knee Arthroplasty
Lisa Su, MD, MS, University of California Los Angeles

3:00 pm – 3:04 pm 98 - Complete Ablation of Biofilm with Low Frequency Electro-Magnetic Force and Antibiotics
Gerhard E. Maale, MD, Dallas Ft. Worth Sarcoma Group/Medical City Plano

3:04 pm – 3:10 pm Discussion

Rapid Fire Session 6D – Shoulder & Elbow (Fountain West)

Moderator: Michael Shepard, MD, *Orthopaedic Specialty Institute*
Andrew R. Jensen, MD, MBE, *University of California, Los Angeles*

2:10 pm – 2:14 pm 42 - Tranexamic Acid Use in Total Shoulder Arthroplasty Continues to Increase and is Safe in High-Risk Patients
Cory K. Mayfield, MD, University of Southern California

2:14 pm – 2:18 pm 215 - Biomechanical Characterization of a Novel Onlay Distal Biceps Repair
Genevieve Fraipont, Orthopaedic Biomechanics Laboratory, Congress Medical Foundation

2:18 pm – 2:22 pm 268 - Prevalance of Metal Allergies in Shoulder & Elbow Reconstruction
Kamalei Cruz, MD, Cedars Sinai Kerlan Jobe Institute

2:22 pm – 2:26 pm 312 - Reverse Shoulder Arthroplasty Using Custom, 3D-Printed Glenoid Implant
Kamalei Cruz, MD, Cedars Sinai Kerlan Jobe Institute

2:26 pm – 2:30 pm 27 - Non-Cefazolin Antibiotic Prophylaxis is Associated with Increased Rates of Acute Infectious and Medical Complications Following Total Shoulder Arthroplasty
Ryan D. Freshman, MD, University of Southern California
**Presented by Taylor Southworth, MD*

2:30 pm – 2:38 pm Discussion

2:38 pm – 2:42 pm 212 - Effects of Superior Capsular Reconstruction with Fascia Lata Allograft on Glenohumeral Kinematics
Victor T. Hung, BS, Orthopaedic Biomechanics Laboratory, Congress Medical Foundation

- 2:42 pm – 2:46 pm 214 - Tensile Characteristics of the Superior-Posterior and Anterior-Inferior Bundles of the AC Joint
Genevieve Fraipont, Orthopaedic Biomechanics Laboratory, Congress Medical Foundation
- 2:46 pm – 2:50 pm 290 - The Geriatric Nutritional Risk Index is a Prognostic Indicator in Revision Total Shoulder Arthroplasty
Steven H. Liu, BS, Stony Brook University
- 2:50 pm – 2:54 pm 299 - Biologic Spacer to Treat Irreparable Rotator Cuff Tears: A Biomechanical Study
Aaron Hui, BS, Albert Einstein College of Medicine / Orthopaedic Biomechanics Laboratory, Congress Medical
- 2:54 pm – 2:58 pm 388 - Differences in Genes Expression in Patients with Glenoid Bone Loss
Patrick W. Rooney, MD, Madigan Army Medical Center
**Presented by Alec C. Egan, MD, MS*
- 2:58 pm – 3:02 pm 21 - Preoperative Mental Health Disorders Affect Opioid Consumption and Perioperative Complications Following Total Shoulder Arthroplasty
Cory K. Mayfield, MD, University of Southern California
- 3:02 pm – 3:10 pm Discussion

Rapid Fire Session 6E – Sports (Seacliff)

Moderator: Cassandra A. Lee, MD, *University of California, Davis*
 Alan L. Zhang, MD, *University of California, San Francisco*

- 2:10 pm – 2:14 pm 400 - Periostin Identified As A Synovial Biomarker For Anterior Shoulder Instability
Rachel J. Milam, MD, Madigan Army Medical Center
- 2:14 pm – 2:18 pm 46 - Impact of Surgeon Volume, Experience, and Training on Outcomes After Arthroscopic Rotator Cuff Repair: A Nationwide Analysis of 1,489 Surgeons
Alan L. Zhang, MD, University of California, San Francisco
- 2:18 pm – 2:22 pm 406 - Unveiling the Clinical Response to Platelet-Rich Plasma in Knee Osteoarthritis
Evangelia P. Constantine, BS, University of Colorado School of Medicine
**Presented by Jason Drago, MD*

2:22 pm – 2:26 pm	71 - Pectoralis Major Rupture Repairs in Active Duty Service Members <i>Jonathan C. Horng, MD, University of Hawaii</i>
2:26 pm – 2:30 pm	41 - Reverse vs. Anatomic Total Shoulder Arthroplasty: A Large Matched Cohort Analysis <i>Dang-Huy Do, MD, The University of Texas Southwestern Medical Center</i>
2:30 pm – 2:38 pm	Discussion
2:38 pm – 2:42 pm	293 - The Axillary Nerve is at Risk in Suprapectoral Biceps Tenodesis <i>Cara Lai, MD, Mayo Clinic</i>
2:42 pm – 2:46 pm	323 - Partial ACL Tears: A Survey by the ACL Study Group <i>Christopher S. Frey, MD, Stanford University</i> <i>*Presented by Kinsley J. Pierre, BS</i>
2:46 pm – 2:50 pm	467 - The Impact of Anatomical Alignment on Radiocapitellar Pressure following Radial Head Arthroplasty <i>John Heifner, MD, MS, Miami Bone and Joint Institute</i>
2:50 pm – 2:54 pm	260 - Proximity of the Axillary Nerve in the Suprapectoral Region of the Shoulder <i>Cara Lai, MD, Mayo Clinic</i>
2:54 pm – 2:58 pm	33 - Effect of Matching Native Humeral Version on Range of Motion in Total Shoulder Arthroplasty <i>Shane Johns, BS, University of New Mexico</i>
2:58 pm – 3:02 pm	175 - Popliteal Artery Variation and Non-Arthroplasty Orthopaedic Surgery <i>Christopher S. Frey, MD, Stanford University</i> <i>*Presented by George Bugarinovic, MD</i>
3:02 pm – 3:10 pm	Discussion
3:10 pm – 4:10 pm	Scientific Poster (Presenters are available to answer questions) (<i>Grand Ballroom Foyer</i>)

3:10 pm – 4:10 pm

Scientific E-Poster Session (Presenters are available to answer questions) (*Driftwood, Sunrise A, Fountain East & West, and Seacliff*)