

**Western Orthopaedic Association  
Scientific Program  
Huntington Beach, CA  
August 8<sup>th</sup> - 10<sup>th</sup>, 2024**

**Thursday, August 8<sup>th</sup>**

- 6:30 am – 7:30 am                      **Scientific Poster/E-Poster Session** (Presenters are available to answer questions)
- 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**

Moderators:    TBD

- 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**

Moderators: TBD

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**

Moderators: TBD

- 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**

Moderators: TBD

- 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*

- 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**

Moderators: TBD

- 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 Lauren Ladehoff, 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***

**Symposium 1 – Creating Sustained Success in Academic or Private Practice**

Moderator: Darrel S. Brodke, MD, *University of Utah*

8:55 am – 9:07 am Managing Up: Creating Synergy with the Health System  
*Jay R. Lieberman, MD, University of Southern California*

9:07 am – 9:19 am Making the Health System Your Partner  
*Mark H. Getelman, MD, Southern California Orthopedic Institute*

9:19 am – 9:31 am Recruitment, Retention, and Diversity: Keys to Long-Term Success  
*Paul Tornetta, MD, Boston Medical Center*

9:31 am – 9:43 am Efficiency in Your ASC  
*William B. Stetson, MD, Stetson Lee Orthopedics/ University of Southern California*

9:43 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**

**Moderator:** Fraser Leversedge, MD, *University of Colorado*

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**

**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**

**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

Listen to the Teacher

*Milton “Chip” L. Routt, 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. Routt, MD, *McGovern Medical School at UTHealth*

1:05 pm – 1:17 pm

Management of Intertrochanteric Hip Fractures

*Paul Tornetta, MD, Boston Medical Center*

1:17 pm – 1:29 pm

Displaced Femoral Neck Fractures

*Joseph T. Patterson, MD, Keck School of Medicine of USC*

1:29 pm – 1:41 pm

Indications for Hemiarthroplasty in 2024

*Derek Ward, MD, University of California, San Francisco*

1:41 pm – 1:53 pm

When and How to Do a Total Hip Arthroplasty

*Matthew P. Abdel, MD, Mayo Clinic*

1:53 pm – 2:05 pm

Discussion

## **Rapid Fire Session 2A – Arthroplasty Hip**

Moderators: TBD

- 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, Keck School of Medicine of USC*
- 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  
*Kyle M. Griffith, MD, Keck School of Medicine of USC*
- 2:44 pm – 2:48 pm                      255 - Cervical Myelopathy is a Risk Factor for Falls and Complications After Total Hip Arthroplasty  
*Russell N. Stitzlein, MD, University of California, Irvine*
- 2:48 pm – 2:52 pm                      11 - Exploring Preoperative Arthritis Severity's Influence on Total Hip Arthroplasty Outcomes  
*Isabella Amado, BS, Anne Burnett Marion School of Medicine at TCU*
- 2:52 pm – 2:56 pm                      309 - Outcomes of Staged vs Simultaneous Bilateral Total Hip Arthroplasty



*Sean S. Rajae, MD, MS, Cedars-Sinai Medical Center*  
*\*Presented by Jawad Najdawi, MD*

2:56 pm – 3:00 pm

181 - Collared Femoral Stems are Biomechanically Superior in Osteoporotic Bone.  
*Sean S. Rajae, MD, MS, Cedars-Sinai Medical Center*

3:00 pm – 3:04 pm

43 - Comparison of metal ion levels in MoP and CoP THA  
*John C. Shapton, MD, San Francisco Orthopedic Residency Program*

3:04 pm – 3:10 pm

Discussion

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

Moderators: TBD

2:10 pm – 2:14 pm

277 - Identifying Risk Factors for Arthrofibrosis after TKA using Machine Learning  
*Sean S. Rajae, MD, MS, Cedars-Sinai Medical Center*  
*\*Presented by Andrew P. Nakla, BS*

2:14 pm – 2:18 pm

285 - Machine Learning and Predicting Length of Stay Following Patellofemoral Arthroplasty  
*Adam LaFleur, DO, Riverside University Health System*

2:18 pm – 2:22 pm

314 - Application of Supervised Machine Learning Models to Predict Deleterious Outcomes Following Elective MPFL Reconstruction  
*Richard C. Rice, MD, Loma Linda University Hospital*

2:22 pm – 2:26 pm

311 - Total-Knee Arthroplasty Revision Outcomes after Aseptic Loosening: Machine Learning-Based Predictions  
*Sultan Baz, Loma Linda University Hospital*

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  
*Yasser C. Bouklouch, BSc, MSc, PharmD, Research Institute of the McGill University Hospital Center*

2:30 pm – 2:34 pm

317 - Artificial Intelligence to Model Length of Stay Following Elective Achilles Tendon Repair  
*Victor Hong, Loma Linda University Hospital*

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  
*Tadiwanashe C. Chirongoma, BA, Austin Orthopedic Institute*
- 2:44 pm – 2:48 pm 401 - Using Machine Learning in Predicting Same-Day-Discharge Following Achilles Tendon Ruptures Repair  
*Michael Fei, BA, Creighton University School of Medicine*
- 2:48 pm – 2:52 pm 308 - Predicting Post-Operative Outcomes Following Distal Radius Osteosynthesis Using Machine Learning  
*Trevor R. Case, BS, BA, Loma Linda University Hospital*
- 2:52 pm – 2:56 pm 229 - Can Machine Learning Predict Postoperative Compensatory Sagittal Parameters in AIS Surgery?  
*Afshin Aminian, MD, Children's Hospital of Orange County*
- 2:56 pm – 3:00 pm 306 - Machine Learning Predicts Complications Following Cephalomedullary Osteosynthesis of Intertrochanteric Fractures  
*Victoria Holm, BS, California University of Science and Medicine*
- 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**

Moderators: TBD

- 2:10 pm – 2:14 pm 202 - Utility of “Pavlik Holiday” for Dysplastic Hips Following Failure of Pavlik Harness Treatment  
*Maia Shohamm, Stanford University*
- 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 Hiba Naz, BS*

- 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**

Moderators: TBD

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**

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/E-Poster Session** (Presenters are available to answer questions)

**Friday, August 9<sup>th</sup>**

- 6:30 am – 7:30 am **Scientific Poster/E-Poster Session** (Presenters are available to answer questions)
- 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**

Moderators: TBD

- 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, UC 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*
- 7:57 am – 8:00 am Discussion

### **Rapid Fire Session 3B – Spine: Advanced Technology and Surgical Technique Updates**

Moderators: TBD

- 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**

Moderators: TBD

- 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 Shah*
- 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*



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**

Moderators: TBD

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, Children's Hospital Orange County*

7:57 am – 8:00 am Discussion

### **Rapid Fire Session 3E – Shoulder & Elbow**

Moderators: TBD

- 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**  
*\*CME Credit Not Available*
- 8:35 am – 8:55 am                      *Break – Please visit exhibits***

### **Symposium 3 – Preventing Infections in Orthopaedic Surgery**

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

- 8:55 am – 9:07 am                      Total Joint Arthroplasty: 10 Steps to Prevent Infection

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

9:07 am – 9:19 am Preventing Infection in the Trauma Patient: Open Fracture Management

*Joshua Gary, MD, Keck School of Medicine of USC*

9:19 am – 9:31 am Shoulder Infection Update: Preventing Deep Infection in TSA

*Christopher D. Joyce, MD, University of Utah*

9:31 am – 9:43 am Minimizing Risk of Infection in The Spine Patient: Long-Instrumented Fusion to Microdiscectomy

*Raymond J. Hah, MD, Keck School of Medicine of USC*

9:43 am – 9:55 am Discussion

### **Concurrent ICL 2A – Acetabular Fractures and Pelvic Ring Injuries**

Moderator: Milton “Chip” L. Rount, 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. Rount, 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**

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**

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 – 11:25 am**                      ***Break – Please Visit Exhibits***
- 11:25 am – 11:35 am                      **Presentation of the Blair Filler Award**  
*\*CME Credit Not Available*
- 11:35 am – 12:05 pm                      **Focused Lunch Presentation**  
*\*CME Credit Not Available*

**General Session 3 – Howard Steel Lecturer**

Moderator:    Jay R. Lieberman, MD, *University of Southern California*  
*\*CME Credit Not Available*

- 12:05 pm – 1:00 pm                      Tribal Leadership  
*David Logan, USC Marshall*

**Symposium 4 – Enhancing Revenue Generation in Your Practice**

Moderator:    TBD

1:00 pm – 1:12 pm Maximizing Your Coding  
*Randy Kautz, MBA, MHA, CPC, COC, CPC-I, Keck  
Medicine of USC*

1:12 pm – 1:24 pm How to Enhance Revenue in an Ambulatory Surgery  
Center: The Management Perspective  
*David W. Odell, CPA, Medbridge*

1:24 pm – 1:36 pm An Orthopaedic Medicolegal Practice  
*Alexis E. Dixon, MD, OrthoLegal*

1:36 pm – 1:48 pm Ancillary Services  
*Amir Mostofi, MD, Risser Orthopaedic Group*

1:48 pm – 2:00 pm Discussion

#### **Rapid Fire Session 4A – Revision Arthroplasty & Postoperative Complications**

Moderators: TBD

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 48 - Periprosthetic Tibia Fractures following Total Knee  
Arthroplasty Are Associated with High Mortality Rates  
*Jaewon Yang, MD, University of Washington*

2:13 pm – 2:17 pm 61 - Similar Outcomes with Modular and Non-Modular  
Stems for Revision Total Hip Arthroplasty Performed for  
Periprosthetic Fractures  
*Jaewon Yang, MD, University of Washington*

2:17 pm – 2:21 pm 185 - The Modular Cup-in-Cup Technique in Revision  
Total Hip Arthroplasty  
*Nathanael D. Heckmann, MD, Keck School of Medicine of  
USC*

2:21 pm – 2:25 pm 196 - Effect of BMI on Risk of Postoperative  
Complications Following THA  
*Madeleine Orringer, MD, Keck School of Medicine of  
University of Southern California*

2:25 pm – 2:29 pm 224 - CBC Ratios Predict Adverse Event Risk After TJA  
*Ian A. Jones, MD, Keck School of Medicine of USC*

2:29 pm – 2:35 pm	Discussion
2:35 pm – 2:39 pm	253 - The Role of Perioperative Fluid Resuscitation on Same Day Total Joint Arthroplasty Discharges at a Level 1 Academic Center <i>Brandon E. Lung, MD, University of California, Irvine</i>
2:39 pm – 2:43 pm	218 - Accessory Portal in the Direct Superior Hip Approach Reduces Complications <i>Richard T. Auran, MD, Cedars-Sinai Medical Center</i> <i>*Presented by Brad L. Penenberg, MD</i>
2:43 pm – 2:47 pm	57 - Stimulant Use in Total Hip Arthroplasty Carries Increased Risk for Post-Operative Surgical and Medical Complications <i>Mackenzie Kelly, MD, Oregon Health &amp; Science University</i>
2:47 pm – 2:51 pm	189 - GLP-1 Agonists Associated with Low Anesthesia-Related Complication Risk Before TJA <i>Ryan C. Palmer, University of Southern California Keck School of Medicine</i>
2:51 pm – 2:55 pm	470 - BMI is Weakly Associated with Peri-Incisional Adiposity in Primary Total Knee Arthroplasty Patients <i>John Heifner, MD, MS, Miami Bone and Joint Institute</i>
2:55 pm – 2:59 pm	197 - Effect of BMI on Risk of Postoperative Complications Following TKA <i>Sagar Telang, BS, Keck School of Medicine of USC</i> <i>*Presented by Brandon Yoshida, MD</i>
2:59 pm – 3:05 pm	Discussion

#### **Rapid Fire Session 4B – Foot & Ankle**

Moderators: TBD

2:05 pm – 2:09 pm	176 - Qualitative Weight-Bearing Computed Tomography Evaluation of Müller-Weiss Disease Using a Three-Dimensional Video Foot Model <i>Brady T. Williams, MD, University of Colorado</i>
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 – 2:33 pm      Discussion
- 2:33 pm – 2:37 pm      113 - Impact of Surgical Setting on Total Ankle Arthroplasty Outcomes  
*Devon Nixon, MD, University of Utah*  
*\*Presented by Hyunkyu Ko*
- 2:37 pm – 2:41 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*
- 2:41 pm – 2:45 pm      142 - Impact of Social Deprivation on Outcomes in Hallux Valgus Surgery  
*Devon Nixon, MD, University of Utah*  
*\*Presented by Tyson Compton, BS*
- 2:45 pm – 2:49 pm      379 - Stepping Up to Informed Consent: Navigating Foot and Ankle Orthopaedics  
*Suraj Jain, BS, NYIT College of Osteopathic Medicine*
- 2:49 pm – 2:53 pm      89 - Extensor Retinaculum Syndrome: A Novel Adult Case Series  
*Tadiwanashe Chirongoma, Loma Linda University Health*
- 2:53 pm – 2:57 pm      245 - Prophylactic Synthetic Matrix Incorporation for Incisions at Risk for Complication

*Nathaniel E. Zona, BA, University of Colorado School of Medicine*

2:57 pm – 3:05 pm

Discussion

**Rapid Fire Session 4C – Pediatrics**

Moderators: TBD

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 Anna Martin*

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*

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**

Moderators: TBD

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*

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, 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 <i>Jacob S. Ghahremani, BA, Kaiser Permanente Bernard J. Tyson School of Medicine</i> <i>*Presented by McKenzie Culler</i>
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 <i>Jacob L. Kotlier, BA, University of Southern California</i>
2:43 pm – 2:47 pm	340 - Elbow Flexor Tendon Repair in the Professional Pitcher <i>Karch M. Smith, MD, University of California San Diego Health</i>
2:47 pm – 2:51 pm	391 - Impact of Pre-Operative Psychiatric Diagnoses on Outcomes after Partial Meniscectomy <i>Ankit Hirpara, MS, University of Colorado School of Medicine</i> <i>*Presented by Kyle Williams, BS</i>
2:51 pm – 2:55 pm	432 - Meniscus Transplants Delay Arthroplasty in Patients Over 50 Years of Age <i>Kevin R. Stone, MD, The Stone Clinic</i> <i>*Presented by Simaron Dhillon, MS</i>
2:55 pm – 2:59 pm	367 - PT Utilization Effect on Isometric Strength Testing following Pediatric ACLR <i>Owen Roth, BS, University of Washington School of Medicine</i>
2:59 pm – 3:05 pm	Discussion

### **Rapid Fire Session 4E – General Orthopaedics**

Moderators: TBD

2:05 pm – 2:09 pm	<b>Lawrence R. Walker, MD Travel Grant Award</b> 49 - Arthroscopy vs. Arthrotomy for Treatment of Septic Arthritis: A Systematic Review <i>Brandon Nudelman, MD, Southern California Orthopedic Institute</i>
-------------------	---

- 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 454 - Greater Trochanteric Pain Syndrome Similar in Morbidity to Hip Osteoarthritis  
*John M. Gaddis, BS, University of Arizona College of Medicine Phoenix*
- 2:17 pm – 2:21 pm 84 - Orthopaedic Surgery and Industry: What do Patients Believe?  
*Harin B. Parikh, MD, Cedars-Sinai Medical Center*
- 2:21 pm – 2:25 pm 147 - Orthopaedic Surgery Opioid Prescription Trends from 2013 – 2021  
*John J. Bartoletta, MD, University of Washington*
- 2:25 pm – 2:29 pm 383 - Health Literacy Does Not Influence Trust In Their Physician  
*Isabel Alvarez, MD, Harbor UCLA Medical Center*
- 2:29 pm – 2:35 pm Discussion
- 2:35 pm – 2:39 pm 415 - Radiographically-Based Diagnostic Score for Osteochondroses and Subchondral Bone Micro-Cracks/Failure  
*Derek T. Dee, MD, Dee Sports Orthopaedics*
- 2:39 pm – 2:43 pm 433 - Quantifying Sleep Deprivation in Orthopedic Resident/Attending Physicians During Trauma Call  
*Colin D. Lipps, BS, Oregon Health & Science University*
- 2:43 pm – 2:47 pm 112 - Patient-Reported Outcomes of Pain and Quality of Life following Implantation of Bone-Anchored Limb  
*Kylie Shaw, MD, University of Colorado*
- 2:47 pm – 2:51 pm 85 - Sustainable Implementation of Electronic Health Record During Global Surgical Outreach  
*Andrew Gatto, University of California, San Francisco*  
*\*Presented by Katherine Miclau, BA*
- 2:51 pm – 2:55 pm 109 - Diagnostic Criteria for Infection After Bone-Anchored Limb Implantation  
*Kylie Shaw, MD, University of Colorado*

2:55 pm – 2:59 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*

2:59 pm – 3:05 pm Discussion

3:05 pm – 4:35 pm **Scientific Poster/E-Poster Session** (Presenters are available to answer questions)

**Saturday, August 10<sup>th</sup>**

6:30 am – 7:30 am **Scientific Poster/E-Poster Session** (Presenters are available to answer questions)

7:15 am – 7:25 am **Second Business Meeting**  
*Jay R. Lieberman, MD, University of Southern California*

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 5A – Wellness, Diversity, and Social Trends**

Moderators: TBD

7:35 am – 7:39 am 272 - Sexual Harassment and Title IX Policy in Orthopaedic Surgery  
*Michaela Juels, University of California Los Angeles*

7:39 am – 7:43 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*

7:43 am – 7:47 am 83 - Trainee Ethnic and Gender Diversity in Orthopaedic Surgery  
*Rishi Trikha, MD, University of California, Los Angeles*

7:47 am – 7:50 am Discussion

- 7:50 am – 7:54 am 276 - Burnout and Sexual Harassment Among Orthopaedic Surgeons  
*Michaela Juels, University of California Los Angeles*
- 7:54 am – 7:58 am 192 - Sustainable Waste Management in Operating Rooms: A Global Scoping Review  
*Emily N. Moya, BS, Stanford University School of Medicine*
- 7:58 am – 8:02 am 430 - Barriers to Entering Surgical Subspecialties for Hijab Wearing Medical Students  
*Dayana Shariff, BA, The Stone Clinic*
- 8:02 am – 8:05 am Discussion

**Rapid Fire Session 5B – Hip Arthroscopy & Hip Preservation**

Moderators: TBD

- 7:35 am – 7:39 am 12 - Analyzing Social Media For Common Questions Asked By PAO Population  
*John M. Gaddis, BS, University of Texas Rio Grande Valley*
- 7:39 am – 7:43 am 443 - Trends in Hip Arthroscopy and Periacetabular Osteotomy for Treatment of Hip Dysplasia  
*Juan A. Serna, BS, University of California, San Francisco*
- 7:43 am – 7:47 am 394 - Comparison of Outcomes after Hip Arthroscopy in Runners and Non-Runners  
*Sriram Sugumarán, University of Washington*
- 7:47 am – 7:50 am Discussion
- 7:50 am – 7:54 am 442 - Patient-Reported Outcome Measures in Hip Preservation Surgery  
*Luke L. Sang, BS, University of California, San Francisco*
- 7:54 am – 7:58 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*
- 7:58 am – 8:02 am 45 - Effect of Socioeconomic Factors on Post-Operative Outcomes Following Hip Arthroscopy  
*Alan L. Zhang, MD, University of California, San Francisco*

8:02 am – 8:05 am Discussion

**Rapid Fire Session 5C – General Hand**

Moderators: TBD

7:35 am – 7:39 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*

7:39 am – 7:43 am 137 - Social Determinants of Health, Race, and Distal Radius Fracture Management  
*Nicole J. Hung, MD, University of California Los Angeles*

7:43 am – 7:47 am 348 - Does Adding Lidocaine to Corticosteroid Injections Reduce Pain Intensity During Injection?  
*George E. Sayegh, BS, Dell Medical School*

7:47 am – 7:50 am Discussion

7:50 am – 7:54 am 341 - Tungsten Carbide Rings Crushed and Cut: A Biomechanical Study  
*Ernesto Santos Quinto, MD, VCME Orthopedic Surgery Residency*

7:54 am – 7:58 am 37 - Trapezial Resection Arthroplasty: More is Not Necessarily Better  
*Harin B. Parikh, MD, Cedars-Sinai Medical Center*  
*\*Presented by Zachary Hong, MD*

7:58 am – 8:02 am 39 - Lateral Epicondylitis: Treatment Preferences from the Patient Perspective  
*Harin B. Parikh, MD, Cedars-Sinai Medical Center*  
*\*Presented by Zachary Hong, MD*

8:02 am – 8:05 am Discussion

**Rapid Fire Session 5D – Trauma General/Other**

Moderators: TBD

7:35 am – 7:39 am 349 - A Technology-Enabled Model to Define the Total Costs of Comprehensive Management of Hip and Knee Osteoarthritis: The Missing Link in Value Based Musculoskeletal Care  
*George E. Sayegh, BS, Dell Medical School*

- 7:39 am – 7:43 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*
- 7:43 am – 7:47 am 298 - Predictors of Repeat Washout in the Isolated Septic Knee  
*Avinaash Korrapati, MD, University of California, San Diego*
- 7:47 am – 7:52 am Discussion
- 7:52 am – 7:56 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*
- 7:56 am – 8:00 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*
- 8:00 am – 8:05 am Discussion

**Rapid Fire Session 5E – Arthroplasty Same-Day Surgery & Risk Stratification**

Moderators: TBD

- 7:35 am – 7:39 am 289 - Increasing Obesity Class Corresponds with DVT and PE in TKA/THA  
*Jason Liang, BS, University of California, Irvine*
- 7:39 am – 7:43 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*
- 7:43 am – 7:47 am 402 - Cost-Effectiveness of Bisphosphonates in Preventing Periprosthetic Fracture After Hip Arthroplasty  
*Sanjay Kubsad, BS, University of Washington School of Medicine*
- 7:47 am – 7:50 am Discussion

- 7:50 am – 7:54 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*
- 7:54 am – 7:58 am 186 - Waiting Until You're Older: Impact on THA and TKA Outcomes  
*Sean S. Rajaei, MD, MS, Cedars-Sinai Medical Center*  
*\*Presented by Andrew P. Nakla, BS*
- 7:58 am – 8:02 am 353 - Estrogen Replacement Therapy Decreases Risk of Total Joint Arthroplasty Post-Operative Complications  
*Mackenzie Kelly, MD, Oregon Health & Science University*
- 8:02 am – 8:05 am Discussion
- 8:10 am – 8:30 am **Focused Breakfast Presentation**  
*\*CME Credit Not Available*
- 8:40 am – 9:00 am Break – Please visit exhibits**
- Symposium 5 – Biologics: To Infinity and Beyond!**  
Moderator: Jay R. Lieberman, MD, *University of Southern California*
- 9:00 am – 9:12 am Biologics: What you Need to Know  
*Constance Chu, MD, Stanford University*
- 9:12 am – 9:24 am Stem Cell Therapy for Knee OA  
*Don Buford, MD, Texas Orthobiologics*
- 9:24 am – 9:36 am PRP: Ready for Prime Time?  
*Jason Dragoo, MD, University of Colorado*
- 9:36 am – 9:48 am Biologics: I See the Potential but I Need Better Data  
*Brian Feeley, MD, University of California, San Francisco*
- 9:48 am – 10:00 am Discussion
- Concurrent ICL 3A – Cartilage Preservation of the Knee – It's Biology and Alignment**  
Moderator: Jason Dragoo, 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**

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**

Moderator:    James Huddleston, MD, *Stanford University*

- 10:05 am – 10:15 am                      Cementless TKA: Tips and Tricks and Patient Selection  
*TBD*
- 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 with Exhibitors**

**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 – 1:17 pm

The First Five Years: Trial By Fire

*Bradley C. Johnson, MD, Huntington Orthopedics*

1:17 pm – 1:29 pm

I Blinked and It Was Ten Years

*Eric I. Ferkel, MD, Southern California Orthopedic Institute*

1:29 pm – 1:41 pm

Managing an Ever-Changing Landscape: 20 Years in Practice

*Michael Shepard, MD, Orthopaedic Specialty Institute*

1:41 pm – 1:53 pm

Retirement: You Need to Prepare Now

*Richard D. Ferkel, MD, Southern California Orthopedic Institute*

1:53 pm – 2:05 pm

Discussion

**Rapid Fire Session 6A – Hip Fracture**

Moderator: TBD

- 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 - Phoenix*  
*\*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**

Moderator:    TBD

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*

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*

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*
- 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*
- 3:04 pm – 3:10 pm                      Discussion

**Rapid Fire Session 6C – Periprosthetic Joint Infection**

Moderator:    TBD

- 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, 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 Sagar Telang, 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 Explantation of Revision Knee Arthroplasty Components  
*Jacob Ball, MD, Keck School of Medicine of USC*  
*\*Presented by Dara Bruce*
- 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**

Moderator: TBD

2:10 pm – 2:14 pm 24 - Perioperative Dexamethasone Use Is Not Associated  
With Periprosthetic Joint Infection or Wound  
Complications After Total Shoulder Arthroplasty  
*Ryan D. Freshman, MD, University of Southern California*

2:14 pm – 2:18 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*

2:18 pm – 2:22 pm 215 - Biomechanical Characterization of a Novel Onlay  
Distal Biceps Repair  
*Genevieve Fraipont, Orthopaedic Biomechanics  
Laboratory, Congress Medical Foundation*

2:22 pm – 2:26 pm 268 - Prevalance of Metal Allergies in Shoulder & Elbow  
Reconstruction  
*Kamalei Cruz, MD, Cedars Sinai Kerlan Jobe Institute*

2:26 pm – 2:30 pm 312 - Reverse Shoulder Arthroplasty Using Custom, 3D-  
Printed Glenoid Implant  
*Kamalei Cruz, MD, Cedars Sinai Kerlan Jobe Institute*

2:30 pm – 2:34 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*



2:34 pm – 2:40 pm	Discussion
2:40 pm – 2:44 pm	212 - Effects of Superior Capsular Reconstruction with Fascia Lata Allograft on Glenohumeral Kinematics <i>Victor T. Hung, BS, Orthopaedic Biomechanics Laboratory, Congress Medical Foundation</i>
2:44 pm – 2:48 pm	214 - Tensile Characteristics of the Superior-Posterior and Anterior-Inferior Bundles of the AC Joint <i>Genevieve Fraipont, Orthopaedic Biomechanics Laboratory, Congress Medical Foundation</i>
2:48 pm – 2:52 pm	290 - The Geriatric Nutritional Risk Index is a Prognostic Indicator in Revision Total Shoulder Arthroplasty <i>Steven H. Liu, BS, Stony Brook University</i>
2:52 pm – 2:56 pm	299 - Biologic Spacer to Treat Irreparable Rotator Cuff Tears: A Biomechanical Study <i>Aaron Hui, BS, Albert Einstein College of Medicine / Orthopaedic Biomechanics Laboratory, Congress Medical</i>
2:56 pm – 3:00 pm	388 - Differences in Genes Expression in Patients with Glenoid Bone Loss <i>Patrick W. Rooney, MD, Madigan Army Medical Center</i> <i>*Presented by Alec C. Egan, MD, MS</i>
3:00 pm – 3:04 pm	21 - Preoperative Mental Health Disorders Affect Opioid Consumption and Perioperative Complications Following Total Shoulder Arthroplasty <i>Cory K. Mayfield, MD, University of Southern California</i>
3:04 pm – 3:10 pm	Discussion

**Rapid Fire Session 6E – Sports**

Moderator: TBD

2:10 pm – 2:14 pm	400 - Periostin Identified As A Synovial Biomarker For Anterior Shoulder Instability <i>Rachel J. Milam, MD, Madigan Army Medical Center</i>
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 <i>Alan L. Zhang, MD, University of California, San Francisco</i>

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

3:10 pm – 4:10 pm

**Scientific Poster/E-Poster Session** (Presenters are available to answer questions)