

**Western Orthopaedic Association
90th Annual Meeting
The Broadmoor
Broadmoor A
Colorado Springs, CO
Scientific Program**

Thursday, July 30th

6:30 am – 7:30 am **Scientific Poster** (*Broadmoor F*) (Presenters are available to answer questions)

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

7:15 am – 7:25 am **First Business Meeting**
**CME Credit not available*

7:25 am – 7:30 am **Welcome, Announcements and Overview**
Cynthia M. Kelly, MD, President
Nicholas A. Alfonso, MD, Program Co-Chair
Luke T. Nicholson, MD, Program Co-Chair

Rapid Fire Session 1A – Foot & Ankle (*Broadmoor D*)

7:35 am – 7:39 am 630 - Tibiotalocalcaneal Fusion using a Dual Compression
Intramedullary Nail: Short-Term Outcomes
*Rachel Becker, BS, University of California Davis School
of Medicine*

7:39 am – 7:43 am 71 - Evaluation of Surgical Costs Associated with Ankle
Fracture Fixation
Michael Amick, University of Utah

7:43 am – 7:47 am 504 - The Comeback Cost: NFL Operative Ankle Fractures
and Career Longevity
*Tiffany Smith, MD, Columbia University Irving Medical
Center*

7:47 am – 7:52 am Discussion

7:52 am – 7:56 am 522 - Talus Fractures with Talar Body Extrusion: A Case
Series
Abby Viglione, MD, UC Davis

7:56 am – 8:00 am 556 - Short-Term Analysis of Total Ankle Total Talus Replacement
Hunter Wittholt, University of Colorado Anschutz Medical Campus

8:00 am – 8:05 am Discussion

Rapid Fire Session 1B – Trauma (Broadmoor C)

7:35 am – 7:39 am 297 - Intramedullary Nailing Offers Comparable Implant Survival and Shoulder Function with Reduced Blood Loss and Operative Time Compared to Plate Osteosynthesis for Metastatic Humeral Shaft Fractures
Christopher D. Hamad, MD, University of California Los Angeles

7:39 am – 7:43 am 637 - Predictors of Poor Final Motion after Surgical Management of Radial Head and Neck Fractures
Brendan Shi, MD, UCLA

7:43 am – 7:47 am 584 - Cost-Effectiveness of Operative Treatment of Olecranon Fractures in Elderly Patients
Steven Criss, MD, Stanford Health Care

7:47 am – 7:50 am Discussion

7:50 am – 7:54 am 624 - Radial Head and Neck Fixation: Plating vs. Screws
Brendan Shi, MD, UCLA

7:54 am – 7:58 am 536 - PROMIS Scores Predict Nonunion after Surgery for Humeral Shaft Fracture
Shannon O'Hara, BA, Cedars-Sinai Medical Center

7:58 am – 8:02 am 595 - Simultaneous Clavicle and Rib Fracture Fixation in Patients with Severe Chest Wall Injuries is Associated with Improved Outcomes
Adam Schlauch, MD, Denver Health

8:02 am – 8:05 am Discussion

Rapid Fire Session 1C – Basic Science (Columbine)

7:35 am – 7:39 am 424 -Arthroplasty Intramedullary Debridement as a Stromal Cell Source
Mauricio Alvarez, BA, University of Colorado Anschutz

- 7:39 am – 7:43 am 17 - Unmasking Dormant Infections Predicts Infection-Free Survival
Derek Amanatullah, MD, PhD, Stanford University
- 7:43 am – 7:47 am 373 - Bone Regeneration in a Critical-Sized Rat Femoral Defect Using the Novel Osteoinductive Molecule Oxy133
Marc Abdou, MS, University of Southern California Keck School of Medicine
- 7:47 am – 7:50 am Discussion
- 7:50 am – 7:54 am 281 - Fracture-Healing Biomarker Kinetics Vary with Comorbidity Profiles and Injury Mechanisms
Caellagh Catley, MD, OHSU
- 7:54 am – 7:58 am 48 - Differential Gene Expression in SLAP Tears and Shoulder Instability
Caleb Gerber, MD, MBA, Madigan Army Medical Center
- 7:58 am – 8:02 am 638 - Immune Cell Composition and Chronic Inflammation in Metastatic High-Grade Osteosarcoma
Maithily Diaz, MSci, University of California, San Francisco
- 8:02 am – 8:05 am Discussion
- Rapid Fire Session 1D – Spine (Lakspur)**
- 7:35 am – 7:39 am 163 - Prior MI Increases Cardiac Risk after Posterior Cervical Fusion
Michael Kim, MD, University of California, Irvine, School of Medicine
**Presented by Emily L. Tse, BA*
- 7:39 am – 7:43 am 433 - MRI-Based Assessment of Paraspinal Muscle Quality After Cervical Surgery
Prudhvi Kodali, BA, Cedars-Sinai
- 7:43 am – 7:47 am 411 - Impact of Non-Tobacco Nicotine Dependence on Two-Year Outcomes following Anterior Cervical Discectomy and Fusion
Ellie Cherryhomes, BJ, BA, Texas Tech University Health Sciences Center El Paso (TTUHSC El Paso)
- 7:47 am – 7:50 am Discussion

7:50 am – 7:54 am 428 - Deviation of Spinous Processes in the Adult Cervical Spine
Aidan Lindgren, BS, Keck School of Medicine

7:54 am – 7:58 am 447 - Tissue Depth Predicts Blood Loss and Operating Time for ACDF
Marco Napolitano, MS, MSM Keck School of Medicine of USC

7:58 am – 8:02 am 204 - AI-Driven Radiographic and Biomechanical Analysis for Cervical Total Disc Replacement: A Preliminary Multi-Cohort Investigation
Vikas V Patel, MD, MA, BSME, University of Colorado

8:02 am – 8:05 am Discussion

Rapid Fire Session 1E – Sports Medicine (*Astor*)

7:35 am – 7:39 am 213 - Cost-Effectiveness of Remplissage for On-Track Hill-Sachs Lesions
Matthew Frederickson, MD, University of California, Davis Health

7:39 am – 7:43 am 96 - Arthroscopic Shoulder Stabilization with Addition of Remplissage Procedure Decreases Reoperation Rate
Joseph M. Sliepka, MD, University of California, San Francisco

7:43 am – 7:47 am 110 - Athletes Undergoing Bristow-Latarjet Stabilization Demonstrate Higher Rates of Full Return to Sport: A Systematic Review and Meta-Analysis
Eyad Mansour, MS, California Health Sciences University College of Osteopathic Medicine

7:47 am – 7:50 am Discussion

7:50 am – 7:54 am 480 - Tendon Transfer Outcomes for Irreparable Posterosuperior Rotator Cuff Tears
Anthony Mouchawar, MS, University of Southern California

7:54 am – 7:58 am 245 - Association of Chronic Statin Use with Rotator Cuff and Achilles Retears
Shaylan Bera, BS, University of Arizona College of Medicine - Phoenix

7:58 am – 8:02 am 312 - CKCUEST Administration, Performance, and Cutoff Scores: A Scoping Review
Sean Sibley, DPT, University of Colorado Anschutz School of Medicine

8:02 am – 8:05 am Discussion

8:15 am – 8:45 am **Focused Breakfast Presentation**
**CME Credit not available*

8:55 am – 9:15 am **Break – Please visit exhibits**

Symposium 1 – Infection

Moderator: Joshua Gary, MD, *University of Texas Medical Branch - Galveston*

9:15 am – 9:25 am Trauma Infection
Joshua L. Gary, MD, University of Texas Medical Branch - Galveston

9:25 am – 9:35 am Sports Infection
Anthony E. Johnson, MD, AEJ Consulting PC

9:35 am – 9:45 am Joints Infection
Antonia F. Chen, MD, MBA, UT Southwestern Medical Center

9:45 am – 9:55 am Spine Infection
Christopher J. Kleck, MD, University of Colorado

9:55 am – 10:05 am Discussion

Concurrent ICL 1A – Sports

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

10:15 am – 10:25 am Rotator Cuff Augmentation: Who Needs it?
Christopher D. Joyce, MD, University of Utah

10:25 am – 10:35 am Treating Athletes with Anterior Shoulder Instability and Glenoid Bone Loss
Sara L. Edwards, MD, University of California, San Francisco

10:35 am – 10:45 am Management of Shoulder Arthritis in Patients Under 50
Corey J. Schiffman, MD, University of Washington

10:45 am – 10:55 am Female Shoulder Instability - Why Evidence Matters When the Answer is So Obvious?
Anthony E. Johnson, MD, AEJ Consulting PC

10:55 am – 11:05 am Discussion

Concurrent ICL 1B – Limb Restoration and Amputations (*Broadmoor D*)

Moderator: Geoffrey S. Marecek, MD, *Cedars-Sinai Medical Center*

10:15 am – 10:25 am Osseointegration: Where are We in 2026?
Ali Azad, MD, University of Southern California

10:25 am – 10:35 am Limb Lengthening
Geoffrey S. Marecek, MD, Cedars-Sinai Medical Center

10:35 am – 10:45 am Arthrodesis and Amputations
David H. Chafey, MD, University of New Mexico

10:45 am – 10:55 am TMR/RPNI
David P. Schnur, MD, Banner Health

10:55 am – 11:05 am Discussion

Concurrent ICL 1C – Pediatrics (*Broadmoor C*)

Moderator: Jessica Burns, MD, MPH, FAAOS, *Phoenix Children's Hospital*

10:15 am – 10:25 am Young Femur Fractures (Age <5)
Erika L. Valentine, MD, Children's Hospital Colorado

10:25 am – 10:35 am Older Child Femur Fractures (Age 5–12)
Jenifer N. Powers, MD, Shriners Children's, Las Vegas

10:35 am – 10:45 am Adolescent/Adult Transitional Femur Fractures (Age 12+)
William S. Wood, MD, Phoenix Children's Hospital

10:45 am – 10:55 am Pathologic Femur Fractures in Children
Jessica Burns, MD, MPH, Phoenix Children's Hospital

10:55 am – 11:05 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 1 – Howard Steel Lecturer

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

**CME Credit not available*

- 12:05 pm – 12:10 pm Introduction of the Howard Steel Lecturer
Cynthia M. Kelly, MD, Colorado Limb Consultants
- 12:10 pm – 1:00 pm Between a Rock and a Hard Place: Turning Adversity to Advantage
Aaron Ralston

General Session 2 – OREF/WOF Junior Investigator Awards and WOA Research Grant Presentations

Moderators: Nicholas A. Alfonso, MD, *University of Colorado*

Luke T. Nicholson, MD, *University of Southern California*

- 1:00 pm – 1:06 pm 22 - Dual-Mobility vs. Jumbo-Head Primary Total Hip Arthroplasty Stability: Registry Study
Foster Chen, MD, Virginia Mason Franciscan Health
- 1:06 pm – 1:12 pm 629 - Do Arthroplasty Patients Need to Stop NSAID Use Prior to Surgery?
Peter Gold, MD, Panorama Orthopedic & Spine Center
- 1:12 pm – 1:18 pm 294 - Prior Collagenase Injection Is Associated with Increased Revision Risk Following Primary Fasciectomy for Dupuytren's Contracture
Sahil Telang, BS, Keck School of Medicine of USC
- 1:18 pm – 1:24 pm Discussion
- 1:24 pm – 1:34 pm **First Place Research Award**
693 - The New State of Periprosthetic Joint Infection - Immune Profiling Reveals Clinically Silent Dormant Infection Predictive of Relapse
Derek F. Amanatullah, MD, PhD, Stanford University
- 1:34 pm – 1:44 pm **Second Place Research Award**
694 - Mitochondrial Genetic Variation Orchestrates COPZ1 Transcript Heterogeneity and Reveals Telomere-Mediated Vulnerabilities in Osteosarcoma
Alexander B. Christ, MD, University of California, Los Angeles

1:44 pm – 1:54 pm

Third Place Research Award

695 - Improving Patient Health Literacy Through Gamification of Medicine Using Augmented Reality–Powered Tools for Common Spinal Degenerative Conditions: A Proof-of-Concept Study
Hai Van Le, MD, MPH, University of California, Davis

1:54 pm – 2:00 pm

Discussion

Symposium 2 – Disasterplasty

Moderator: Rina Jain, MD, *Synergy Orthopedics*

2:00 pm – 2:10 pm

General Principles of Periprosthetic Fractures
Jessica Lee, MD, University of Colorado

2:10 pm – 2:20 pm

Arthroplasty for Proximal Femur Fractures
Rina Jain, MD, Synergy Orthopedics

2:20 pm – 2:30 pm

Underlying Metastatic Disease
Erica M. Giles, MD, UT Physicians Orthopedics

2:30 pm – 2:40 pm

Perioperative Management of the Oncology Femur Fracture Patient
Susan V. Bukata, MD, University of California, San Diego

2:40 pm – 2:50 pm

Discussion

Rapid Fire Session 2A – Trauma (Broadmoor D)

3:00 pm – 3:04 pm

192 - Weightbearing in Tibial Shaft Fractures with Intra-Articular Extension
Aeryus Holloway, MD, Banner Health Medical Center

3:04 pm – 3:08 pm

300 - Radiographic and Functional Outcomes in Geriatric Pilon Fractures
Violette Simon, MD, Cedars Sinai Medical Center

3:08 pm – 3:12 pm

603 - Are All Displaced Femoral Neck Fractures the Same?
Erika Roddy, MD, Harborview Medical Center, University of Washington

3:12 pm – 3:16 pm

102 - Mechanical Complications with Inlay vs. Non-Inlay Design Retrograde Nails in Distal Femur Fractures
Noah Natanael Swärd, University of California, San Diego

- 3:16 pm – 3:20 pm 619 - Working Length in Distal Femur Fractures: Do We Finally Have an Answer?
Varun Gudapati, MD, BSE, UCLA
- 3:20 pm – 3:24 pm 99 - Comparative Outcomes of Screw, Suture Button, and Aperture Fixation for Syndesmotic Injuries
Erin Kim, BA, University of California San Diego School of Medicine
- 3:24 pm – 3:30 pm Discussion
- 3:30 pm – 3:34 pm 598 - Impact of Ipsilateral Femoral Neck Fracture on Femoral Shaft Nonunion: A Comparative Cohort Study
Zachary Rockov, MD, Harborview Medical Center
- 3:34 pm – 3:38 pm 253 - Impact of GLP-1 Agonists on Outcomes following Tibial Shaft Fixation
Nathaniel Kern, MD, ATC, CSCS Banner University Medical Center - Phoenix
- 3:38 pm – 3:42 pm 320 - Supine vs. Lateral Positioning for Cephalomedullary Nailing of Intertrochanteric Fractures
Ryan Ross, BS, Keck School of Medicine of USC
- 3:42 pm – 3:46 pm 413 - Zero Missed Compartment Syndromes with Q4 Tibial Fracture Monitoring
Tyler Thorne, MD, University of Utah
**Presented by Rory A. Byrne, MD*
- 3:46 pm – 3:50 pm 187 - Nail-Plate Combinations for Periprosthetic Knee Fractures Report Lower Two-Year DVT
Shaylan Bera, BS, University of Arizona College of Medicine - Phoenix
- 3:50 pm – 3:54 pm 513 - Incidence of New-Onset Substance Use Disorder after Lower Extremity Polytrauma
Alejandro Holle, BS, Mayo Clinic
- 3:54 pm – 4:00 pm Discussion

Rapid Fire Session 2B – Total Joint (Broadmoor C)

- 3:00 pm – 3:04 pm 185 - Knee Denervation Frequently Requires Subsequent TKA Increasing Cost and Complications
Tyler Brady, BS, University of Arizona College of Medicine - Phoenix

- 3:04 pm – 3:08 pm 306 - Diabetes is Associated with an Increased Risk of Arthrofibrosis following Total Knee Arthroplasty
Collin Braithwaite, MD, Mayo Clinic
- 3:08 pm – 3:12 pm 37 - Extended-Release Topical Anesthetic vs. PAI in 4,000 Consecutive Primary TKAs
Alexander Sah, MD, Institute for Joint Restoration
- 3:12 pm – 3:16 pm 545 - Who Improves Two Years after Total Knee Arthroplasty?
Michael Dayton, MD, University of Colorado Anschutz Medical Campus
- 3:16 pm – 3:20 pm 559 - Socioeconomic Disparities in Robot-Assisted Total Knee Arthroplasty Utilization
Tyler Lockwood, BS, UC Davis School of Medicine
- 3:20 pm – 3:24 pm 338 - Measuring the Impact of Diabetes on Early Postoperative Activity after Primary Total Knee Arthroplasty Using a Smart Implantable Device: A Propensity Score-Matched Analysis
Jawad Najdawi, MD, Cedars-Sinai Medical Center
**Presented by Mark Wu, MD*
- 3:24 pm – 3:30 pm Discussion
- 3:30 pm – 3:34 pm 570 - Revision ORIF vs. Conversion Arthroplasty for Femoral Neck Fracture Nonunion
George Bcharah, MS, Mayo Clinic
- 3:34 pm – 3:38 pm 252 - Impact of Mean Income on Revision Surgery after Hip Arthroplasty
Bill Young, BS, Stanford University
**Presented by Derek F. Amanatullah, MD, PhD*
- 3:38 pm – 3:42 pm 181 - Higher Dexamethasone Doses Associated with Similar Infection Risk following TJA
Sahil Telang, BS, Keck School of Medicine of USC
- 3:42 pm – 3:46 pm 391 - Impact of Intervention Timing on the Failure of DAIR in Acute Postoperative PJI
Ahmad Zedan, BS, University of California, San Francisco
- 3:46 pm – 3:50 pm 157 - Predicting 5-Year Mortality After PJI Using an Accumulated Frailty Index

Brandon S. Gettleman, MD, University of California - Los Angeles

3:50 pm – 3:54 pm

145 - Results of 1 Stage Revision for PJI-Results of the First 695 Patients
Ritvik Kakumani, BS, DFW Sarcoma Group

3:54 pm – 4:00 pm

Discussion

Rapid Fire Session 2C – Spine (Columbine)

3:00 pm – 3:04 pm

272 - Symptomatic Retroperitoneal Fluid Collection following ALIF: A Single Institution Study
Daniel Rusu, BS, Keck School of Medicine of USC

3:04 pm – 3:08 pm

450 - Impact of Hip Stiffness on Spinopelvic Compensation and Adjacent Segment Motion after Lumbar Fusion
William Karakash, BS, Keck School of Medicine of USC

3:08 pm – 3:12 pm

52 - Three-Year Outcomes from a Prospective FDA Randomized Clinical Trial Comparing Lumbar Facet Arthroplasty to Transforaminal Interbody Fusion
Vikas Patel MD, MA, BSME, University of Colorado

3:12 pm – 3:16 pm

119 - TXA in Lumbar Spine Surgery: A Randomized Prospective Study
Malik Scott, BA, The University of Chicago Pritzker School of Medicine

3:16 pm – 3:20 pm

379 - Clinical Correlates of Pain Tolerance: Associations with Postoperative Pain Burden and Opioid Requirements following Lumbar Fusion Surgery
Marc Abdou, MS, University of Southern California Keck School of Medicine

3:20 pm – 3:24 pm

464 - Quantifying Ergonomics with Dynamic Motion Sensors in Lumbar Spine Surgery
Renzo Laynes, MD, Virginia Mason Medical Center

3:24 pm – 3:30 pm

Discussion

3:30 pm – 3:34 pm

577 - Androgen Deprivation Therapy and Lumbar Fusion Outcomes: A Multicenter Real-World Analysis
Sarah Meng, BS, Loma Linda University School of Medicine

- 3:34 pm – 3:38 pm 459 - Spinopelvic Compensation during Standing to Sitting Transition after Short-Segment Lumbar Fusion
William Karakash, BS, Keck School of Medicine of USC
- 3:38 pm – 3:42 pm 421 - The Impact of Patient-Specific Short Rods on Spinopelvic Alignment and Clinical Outcomes after Degenerative Lumbar Fusion
Christopher Kleck, MD, University of Colorado
- 3:42 pm – 3:46 pm 398 - Fusion of the Lumbar Spine and Implications for Hip Motion: A Theoretical Model
Emily Mills, MD, University of Southern California
- 3:46 pm – 3:50 pm 382 - Risk Factors for Reherniation following Lumbar Microdiscectomy: An Institutional Analysis
Daniel Rusu, BS, Keck School of Medicine of USC
- 3:50 pm – 3:54 pm 322 - Understanding Fracture Patterns following Lumbar Fusion: A Five-Year Retrospective Study
Roxana Zaman, BSA, University of Texas Medical Branch at Galveston
- 3:54 pm – 4:00 pm Discussion

Rapid Fire Session 2D – Shoulder & Elbow (*Lakspur*)

- 3:00 pm – 3:04 pm 395 - A Comparative Analysis of Pain Distribution following Anatomic and Reverse Total Shoulder Arthroplasty
Randall Arroyo, BS, University of Utah
**Presented by Christopher D. Joyce, MD*
- 3:04 pm – 3:08 pm 557 - Reverse Total Shoulder Arthroplasty Complications: Rotator Cuff Arthropathy vs. Cuff-Intact
Ijezie Ikwuezunma, MD, University of California
- 3:08 pm – 3:12 pm 590 - Obstructive Sleep Apnea does not Preclude Outpatient Total Shoulder Arthroplasty
Timothy Domashevich, BS, Denver Health
- 3:12 pm – 3:16 pm 146 - Prior C. Difficile Infection Increases Risk of Infectious Complications following Total Shoulder Arthroplasty in a Time Dependent Manner
Benjamin Paul, BS, Mayo Clinic Arizona

- 3:16 pm – 3:20 pm 151 - GLP-1 Agonists for Weight Loss in Non-Diabetic Patients Undergoing Total Shoulder Arthroplasty: A Matched Cohort Study
Austin Charles, BS, Creighton University School of Medicine
- 3:20 pm – 3:24 pm 354 - Call for Guidelines: Dental Prophylaxis Variation after Total Shoulder Arthroplasty
Alyssa Basdavanos, MD, Harbor UCLA Medical Center
- 3:24 pm – 3:30 pm Discussion
- 3:30 pm – 3:34 pm 12 - Evaluation of the International Consensus Meeting (ICM) Diagnostic Categories for Shoulder Periprosthetic Joint Infection: C. Acnes Predominates Even in Definite Infections
Andrew Collins, MD, University of Washington
- 3:34 pm – 3:38 pm 13 - Early vs. Conventional Rehab after Reverse Shoulder Arthroplasty: Systematic Review
Samir Alkhouri, BS, MBA, Kirk Kerkorian School of Medicine
- 3:38 pm – 3:42 pm 479 - Operative Timing for Staged Bilateral Reverse Total Shoulder Arthroplasty
Andrew Barcenas, BS, Keck School of Medicine
- 3:42 pm – 3:46 pm 440 - Subscapularis-Sparing Total Shoulder Arthroplasty: A Retrospective Study
Randall Arroyo, BS, University of Utah
- 3:46 pm – 3:50 pm 498 - A Single Surgeon's Learning Curve for Primary Reverse Total Shoulder Arthroplasty
Christina Im, BA, David Geffen School of Medicine at UCLA
- 3:50 pm – 3:54 pm 76 - Incidence and Risk Factors of Metal Hypersensitivity in Patients with Glenohumeral Arthritis
John Itamura, MD, Cedars Sinai Kerlan-Jobe Institute
- 3:54 pm – 4:00 pm Discussion

Rapid Fire Session 2E – Mixed Topics (*Astor*)

- 3:00 pm – 3:04 pm 255 - Validation of an LLM Voice Agent for Automated QuickDASH Administration and Scoring

Charles P. Nolte, BS, Georgetown University School of Medicine

- 3:04 pm – 3:08 pm 20 - VR Accelerates Proficiency in Shoulder Arthroscopy
Max Ruiz, BA, Stanford Medical School
- 3:08 pm – 3:12 pm 133 - Predictors of Missed Appointments in Sports
Medicine Clinic
*Rashed Alananzeh BA, UCLA David Geffen School of
Medicine*
- 3:12 pm – 3:16 pm 607 - Smart Implant with Virtual Therapy Reduces
Complications and Postoperative Visits
Taha M. Taka, MD, Loma Linda University Health System
- 3:16 pm – 3:20 pm 25 - Auto-Measuring Drill Is More Accurate Than
Conventional Drill/Depth Gauge
Rachel Roller, MD, Stanford
- 3:20 pm – 3:24 pm 262 - Glucagon-like Peptide-1 Agonist Usage Associated
with Lower Nonunion Rate in Tibial Shaft Fractures: A
Large Database Retrospective Study
Nicholas Piccaro, BS, University of Colorado
**Presented by Joshua Finesilver, BA*
- 3:24 pm – 3:30 pm Discussion
- 3:30 pm – 3:34 pm 519 - Geographic and Referral Characteristics of Patterns
of Isolated Pediatric Orthopaedic Transfers
Malini Anand, MD, UC Davis Health
- 3:34 pm – 3:38 pm 539 - Regional and Socioeconomic Differences in
Unicompartmental Knee Arthroplasty Utilization
*Mandeep S. Chhokar, BS, University of California Davis
Health*
- 3:38 pm – 3:42 pm 263- Association of Non-English Language Preference and
Hip Fracture Post-Operative Complications
Arezo Ahmadi, BS, UCSF
- 3:42 pm – 3:46 pm 104 - Suzetrigine in Multimodal Therapy Enables Opioid-
Free Recovery after Arthroscopic Procedures
Jeffrey Moore, MD, West Clinical Research
- 3:46 pm – 3:50 pm 142 - Accelerometer-Based Navigation vs. Conventional
UKA: Radiographic and Clinical Outcomes

Kyle Tsujimoto, BS, John A. Burns School of Medicine

3:50 pm – 3:54 pm

474 - Microbiologic Differences in Hand Infections
Between Incarcerated and Civilian Patients
Tanner Carcione, BS, Mayo Clinic Arizona

3:54 pm – 4:00 pm

Discussion

4:00 pm – 5:00 pm

Scientific Poster (*Broadmoor F*) (Presenters are available
to answer questions)

4:00 pm – 5:00 pm

Scientific E-Poster Session (*Broadmoor D & C*)
(Presenters are available to answer questions)

Friday, July 31st

6:30 am – 7:30 am

Scientific Poster (*Broadmoor F*) (Presenters are available
to answer questions)

6:30 am – 7:30 am

Scientific E-Poster Session (*Broadmoor D & C*)
(Presenters are available to answer questions)

7:20 am – 7:25 am

Announcements
Nicholas A. Alfonso, MD, Program Co-Chair
Luke T. Nicholson, MD, Program Co-Chair

Rapid Fire Session 3A – Practice Management / Education (*Broadmoor D*)

7:30 am – 7:34 am

562 - Postoperative Follow-Up Visits in Shoulder Surgery
Exceed Medicare Assumptions
Safdar Khan, MD, UC Davis Health

7:34 am – 7:38 am

509 - Orthopaedic Surgeons Drive Facility Revenue While
RVU Pay Erodes
*David Dallas-Orr MD, MBA, MTM University of
California Davis Health*

7:38 am – 7:42 am

78 - Declining Medicare Reimbursement Rates for
Orthopaedic Surgery Procedures, 2013-2023
*Mohammed Albotabekkh, BS, Texas Tech University Health
Sciences Center El Paso*

7:42 am – 7:45 am

Discussion

7:45 am – 7:49 am 512 - Widening Professional-Facility Payment Gap for Medicare THA and TKA
Jacob Wilson, BS, University of California Davis School of Medicine

7:49 am – 7:53 am 315 - Trends in Length of Stay for Total Hip and Knee Arthroplasty in the United States: Implications for Contemporary Work Relative Value Unit (wRVU) Evaluation
Hania Shahzad, MD, University of California, Davis

7:53 am – 7:57 am 2 - Evaluation of Hospital Price Transparency for Nevada Hospitals
Christopher J. Fang, MD, Kirk Kerkorian School of Medicine at UNLV

7:57 am – 8:00 am Discussion

Rapid Fire Session 3B – Shoulder & Elbow (*Broadmoor C*)

7:30 am – 7:34 am 372 - Reliability of Acromial Morphology Measurements and Association with Glenoid Wear
Cameron Guy, MD, University of Utah

7:34 am – 7:38 am 451 - A Comprehensive Understanding of Clavicular Morphology
Deana Mercer, MD, University of New Mexico Health Sciences Center
**Presented by Ana Love*

7:38 am – 7:42 am 53 - Reduced Acromiohumeral Interval on External Rotation Radiographs has a High Discriminatory Power in Identifying Massive Rotator Cuff Tears Involving Three Tendons
Grant Schroeder, MD, Stanford Health Care

7:42 am – 7:45 am Discussion

7:45 am – 7:49 am 543 - The B0 Glenoid: An Early Pathologic Precursor in Glenohumeral Osteoarthritis
Andrew Valiquette, MD, University of Colorado

7:49 am – 7:53 am **Robert R. Slater Sr., MD Travel Grant Award**
587 - Contralateral Glenoids Are Not Created Equal: An Age-Stratified CT-Chest Analysis

Karch Smith, MD, University of California San Diego Health

7:53 am – 7:57 am 345 - Rotator Cuff Repair with Bone Marrow Stimulation vs. Patch Augmentation
Joseph Lim, MS, University of Colorado School of Medicine

7:57 am – 8:00 am Discussion

Rapid Fire Session 3C – Spine (Columbine)

7:30 am – 7:34 am 34 - Performance of ChatGPT vs. Spine Surgeons as an Emergency Department Spine Call Consultant
Taha Taka, MD, Loma Linda University Health System

7:34 am – 7:38 am **Richard McLain, MD Travel Grant Award**
370 - Outcomes Associated with IVC Filter Use vs. DVT Chemoprophylaxis in Acute Spine Trauma: A Retrospective Review
Dharani Rohit Thota, BA, University of Texas at Southwestern Medical Center

7:38 am – 7:42 am 121 - Missed Osteoporosis Evaluation and Treatment after Vertebral Compression Fracture
Michael Kim, MD, University of California, Irvine, School of Medicine

7:42 am – 7:45 am Discussion

7:45 am – 7:49 am 465 - Antibiotic Powder and Surgical Site Infection in Instrumented Spine Surgery
Renzo Laynes, MD, Virginia Mason Medical Center

7:49 am – 7:53 am 228 - Comparing Resident and Attending Outcomes Using Patient-Specific Pedicle Screw Instrumentation
Kunal Verma, BS, Baylor College of Medicine

7:53 am – 7:57 am 507 - Ambulatory Outcomes after Pelvic Fixation in Spinal Muscular Atrophy
Prudhvi Kodali, BA, Cedars-Sinai

7:57 am – 8:00 am Discussion

Rapid Fire Session 3D – Total Knee (Lakspur)

- 7:30 am – 7:34 am 189 - Increased PJI following Aseptic UKA Conversions Compared to Revision TKA
Tyler Brady, BS, University of Arizona College of Medicine - Phoenix
- 7:34 am – 7:38 am 434 - DAIR vs. One-Stage Exchange for Acute PJI after Index TKA
Muaz Wahid, BS, University of Texas Southwestern
- 7:38 am – 7:42 am 153 - Is it Time for Durable Functional Antibiotic-Laden Spacers to Supplant Two-Stage Exchange Arthroplasty as the Gold-Standard for Treating TKA-PJI?
Jonathan Lee, BA, Stanford University School of Medicine
- 7:42 am – 7:45 am Discussion
- 7:45 am – 7:49 am 555 - Ten-Year Incidence of Reoperation and Periprosthetic Joint Infection in Periprosthetic Patella Fracture
Audrey Zhao, BS, UC Davis
**Presented by Hania Shahzad, MD*
- 7:49 am – 7:53 am 287 - Cones/Short Cemented Stems Demonstrate Noninferiority in Revision Total Knees
Alexa Pius, MD, Stanford University
- 7:53 am – 7:57 am 216 - Outcomes of Rotating-Hinge Revision Total Knee Arthroplasty for Arthrofibrosis: A Systematic Review and Meta-Analysis
Verdinand Ruelos, MD, University of Texas Medical Branch
- 7:57 am – 8:00 am Discussion

Rapid Fire Session 3E – Trauma (Astor)

- 7:30 am – 7:34 am 609 - Are Porous Threaded Titanium Implants Associated with Lower Rates of Implant Positional Changes in Elderly Pelvic Ring Injuries?
Andrew Collins, MD, University of Washington
- 7:34 am – 7:38 am 150 - Access to the Iliopsoas Window: Middle Window or Lateral Window with ASIS Osteotomy
Jens Verhey, MD, Mayo Clinic Arizona

- 7:38 am – 7:42 am 301 - Traction, Ambulation, and Postoperative Delirium after Geriatric Pelvis Fracture Surgery
Ji S. Chin, BS, MS, Keck School of Medicine
- 7:42 am – 7:45 am Discussion
- 7:45 am – 7:49 am 337 - 13 mm of LC1 Pelvis Fracture Dynamic Instability to Pelvic Binder Radiography Predicts Early Patient-Reported Recovery
Camille Flynn, BS, Keck School of Medicine of USC
- 7:49 am – 7:53 am 597 - Impact of Surgeon Experience on Reduction Quality in Transverse Acetabular Fractures
Cyril Mauffrey, MD, FACS, FRCS Denver Health Medical Center
- 7:53 am – 7:57 am 291 - Cancer Risk in Orthopaedic Trauma Patients: Level One Center Experience
Alexa Pius, MD, Stanford University
- 7:57 am – 8:00 am Discussion
- 8:10 am – 8:40 am **Focused Breakfast Presentation**
**CME Credit not available*
- 8:50 am – 9:10 am** ***Break – Please visit exhibits***
- Symposium 3 – Artificial Intelligence and Technology**
Moderator: Alidad Ghiassi, MD, *Ghiassi Hand Surgery*
- 9:10 am – 9:22 am The Use of Digital Twins in Shared Decision Making
Kevin J. Bozic, MD, MBA, Dell Medical School
- 9:22 am – 9:34 am Author-Controlled AI in Orthopaedics
Alidad Ghiassi, MD, Ghiassi Hand Surgery
- 9:34 am – 9:46 am Agentic AI
Fabrizio Billi, MD, University of California, Los Angeles
- 9:46 am – 9:58 am Computer Vision and AI Radiology
Damon Semnani, MD, Lumina AI Health Institute
- 9:58 am – 10:15 am Discussion

Concurrent ICL 2A – Joints

Moderators: Antonia F. Chen, MD, MBA, *UT Southwestern Medical Center*

Nathanael D. Heckmann, MD, *University of Southern California*

- 10:20 am – 10:30 am DAIR vs. Double DAIR: When to DAIR/Do You DAIR
Joshua S. Bingham, MD, Mayo Clinic
- 10:30 am – 10:40 am Single Stage: Indications and Surgical Pearls
*Thomas K. Fehring, MD, Ortho Carolina Hip and Knee
Center, Charlotte, NC*
- 10:40 am – 10:50 am The ‘1.5 Stage’: Not A Dirty Word (Clarify Terminology
and Discuss Relevant Data; Review Surgical Protocols)
Lucas A. Anderson, MD, University of Utah
- 10:50 am – 11:00 am The Two-Stage Exchange: The Tried and True Gold
Standard
*Nathanael D. Heckmann, MD, University of Southern
California*
- 11:00 am – 11:10 am Discussion

Concurrent ICL 2B – Hellbows (*Broadmoor D*)

Moderator: John M. Itamura, MD, *Cedars-Sinai Medical Center*

- 10:20 am – 10:30 am Disaster Total Elbow Arthroplasty
John M. Itamura, MD, Cedars-Sinai Medical Center
- 10:30 am – 10:40 am Coronoid Fractures: Tips and Tricks
Andrew S. Maertens, MD, Denver Health Orthopaedics
- 10:40 am – 10:50 am It's Still Unstable: What Next?
Luke T. Nicholson, MD, University of Southern California
- 10:50 am – 11:00 am Managing Arthritis in the Young Patient
Jacob W. Brubacher, MD, University of Kansas
- 11:00 am – 11:10 am Discussion

Concurrent ICL 2C – Spine - Cervical Myelopathy (*Broadmoor C*)

Moderator: Parker Prusick, MD, *University of Colorado*

- 10:20 am – 10:30 am Overview of Cervical Myelopathy: Update on Evaluation,
Imaging and Treatments
Safdar N. Khan, MD, University of California, Davis
- 10:30 am – 10:40 am Cervical Laminectomy without Fusion: Feasible Option or
a Thing of the Past?

Parker Prusick, MD, University of Colorado

10:40 am – 10:50 am

Anterior vs. Posterior Surgical Options: Indications and Outcomes

Jonathan Kark, MD, Oregon Health and Sciences University

10:50 am – 11:00 am

Motion Preservation in Cervical Myelopathy: Indications, Options and Does it Actually Work?

Raymond J. Hah, MD, University of Southern California

11:00 am – 11:10 am

Discussion

11:10 am – 11:30 am

Break – Please visit exhibits

General Session 3 – Presidential Guest Speaker

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

**CME Credit not available*

11:30 am – 11:35 am

Introduction of the Presidential Guest Speaker

Cynthia M. Kelly, MD, Colorado Limb Consultants

11:35 am – 12:20 pm

Title TBD

Valerae O. Lewis, MD, MD Anderson Cancer Center

12:20 pm – 12:40 pm

Focused Lunch Presentation

**CME Credit not available*

General Session 4 – Board Reports

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

**CME Credit not available*

12:40 pm – 12:50 pm

OREF Report

Lee Grossman, OREF

12:50 pm – 1:00 pm

ABOS Report

Speaker TBD

1:00 pm – 1:15 pm

AAOS Report

Wilford K. Gibson, MD, AAOS President

Symposium 4 – Value and Quality in 2026

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

1:15 pm – 1:25 pm

Interacting with the Health System

Jay R. Lieberman, MD, University of Southern California

- 1:25 pm – 1:35 pm Value-Based Care
Kevin J. Bozic, MD, MBA, Dell Medical School
- 1:35 pm – 1:45 pm Title TBD
Steven M. Engstrom, MD, MBA, Vanderbilt University
- 1:45 pm – 1:55 pm Collecting Patient-Reported Outcomes in Orthopedic Practice: Why, How, and What’s Coming
Kenneth J. Hunt, MD, University of Colorado
- 1:55 pm – 2:05 pm Discussion

Rapid Fire Session 4A – Foot & Ankle (*Broadmoor D*)

- 2:15 pm – 2:19 pm 343 - Linking FAAM and PROMIS Physical Function Scores: A Crosswalk Study
Devon Nixon, MD, University of Utah
- 2:19 pm – 2:23 pm 67 - Vitamin D Deficiency is Associated with Increased Achilles Tendon Injury Risk
Jay Patel, BA, Mayo Clinic
- 2:23 pm – 2:27 pm 551 - Patient Characteristics Associated with Resilience in Foot and Ankle Surgery
Rose Adler, BS, University of Colorado Anschutz Medical Campus
- 2:27 pm – 2:31 pm 86 - Mental Health Disorders Impact on Achilles Tendon Repair Outcomes Postoperative
Ahad Kesaria, BS, University of Texas Medical Branch at Galveston
- 2:31 pm – 2:35 pm Discussion
- 2:35 pm – 2:39 pm 401 - Ultrasound Guidance Improves Suture Placement Accuracy in Percutaneous Achilles Repair
Brian Kwan, DO, Community Memorial Hospital
- 2:39 pm – 2:43 pm 626 - Achilles Tendon Injuries and Repairs More Common in Gout Patients
Alexander Eischeid, BS, University of Arizona College of Medicine - Phoenix

- 2:43 pm – 2:47 pm 631 - Perioperative GLP-1 Receptor Agonist Use and Outcomes after Isolated Foot and Ankle Soft Tissue Reconstruction
Naudereh Noori, MD, University of California Irvine
- 2:47 pm – 2:51 pm 443 - 3D Scanning Software-Generated Custom 3D-Printed Foot Orthoses
Shannon Tse, BMBS, University of California, Davis
- 2:51 pm – 2:55 pm 560 - Clinical Outcomes of Citrefix Suture Anchors in Haglund Correction
Jasmine Tran, BS, University of Texas Medical Branch
- 2:55 pm – 3:00 pm Discussion
- Rapid Fire Session 4B – Hand & Wrist (Broadmoor C)**
- 2:15 pm – 2:19 pm 576 - Incidence of Secondary Ulnar Shortening Osteotomy after Arthroscopic TFCC Debridement or Repair in Patients with Ulnar Positive Variance
Clare Wise, MD, Stanford University School of Medicine
- 2:19 pm – 2:23 pm 646 - Comparison of Corticosteroid Drugs for Trigger Fingers
Kalpit Shah, MD, Scripps Clinic
- 2:23 pm – 2:27 pm 432 - WALANT vs. MAC: A National Claims Study of Minor Hand Procedures (2010-2022)
Yemisi Joseph, BSc, MSc, Stanford University School of Medicine
- 2:27 pm – 2:31 pm 59 - Fixation Strategies for Metacarpal Fractures: A Comparative Study
William Walsh, BA, University of Texas Health Science Center San Antonio
- 2:31 pm – 2:35 pm Discussion
- 2:35 pm – 2:39 pm 422 - Denervation has Lower Reoperation Rates Than Trapeziectomy for Thumb Arthritis
Julian Wier, MD, University of Southern California
- 2:39 pm – 2:43 pm 290 - Shifting Trends in Hand Surgery: An Economic Analysis of Office-Based vs. Hospital-Based Procedures
Kyle Griffith, MD, University of Southern California

2:43 pm – 2:47 pm 403 - Disparities in the Utilization of Wide-Awake Local Anesthetic Hand Surgery
Christopher Orozco, BS, University of California - San Francisco

2:47 pm – 2:51 pm 73 - Retrocondylar Fossa Exostectomy for Proximal Phalanx Malunion with Impaired Flexion
Canhngi Ta, MD, University of California, San Diego School of Medicine
**Presented by Claire Bonnyman, MD*

2:51 pm – 2:55 pm 97 - Financial Burdens after Distal Radius Fracture: Evaluating the Patient Experience
Jessica Abrolat, MS, University of California, San Francisco

2:55 pm – 3:00 pm Discussion

Rapid Fire Session 4C – Sports Medicine (Columbine)

2:15 pm – 2:19 pm 199 - Multicenter Outcomes: Arthroscopic Repair vs. Reconstruction of the Hypoplastic Labrum
Dean Matsuda, MD, Premier Hip Arthroscopy

2:19 pm – 2:23 pm 29 - Hip Arthroscopy with Periportal Capsulotomy for FAIS Demonstrates Clinically Meaningful Improvement at 5-Year Follow-up
Kevin Chen, MD, University of California, San Francisco

2:23 pm – 2:27 pm 28 - Crosswalks between Clinical Outcomes Metrics after Hip Arthroscopy
Wyatt David, MD, University of California, San Francisco

2:27 pm – 2:31 pm 489 - Operative vs. Nonoperative Proximal Hamstring Tears: A Systematic Review
Noah Lyndall, BS, UC Davis School of Medicine

2:31 pm – 2:35 pm Discussion

2:35 pm – 2:39 pm 508 - Biomechanical Comparison of Surgical Techniques in Meniscal Root Repair
Andrew Barcenas, BS, Keck School of Medicine

2:39 pm – 2:43 pm	149 - Comparative Effectiveness of Aspirin vs. Anticoagulants for Venous Thromboembolism Prophylaxis after Achilles Tendon Repair <i>Benjamin Paul, BS, Mayo Clinic Arizona</i>
2:43 pm – 2:47 pm	501 - Outcome Measures for Hip Function: A Systematic Review <i>Chandler Kotseos, BS, University of North Carolina School of Medicine</i>
2:47 pm – 2:51 pm	75 - Early Repair Improves Outcomes after Proximal Hamstring Tendon Rupture <i>Kory B. Dylan Pasko, BS, University of California, Irvine</i>
2:51 pm – 2:55 pm	58 - Total Knee Arthroplasty Conversion Risk after Primary and Revision ACL Reconstruction <i>Liam Wong, MD, University of California, San Francisco</i>
2:55 pm – 3:00 pm	Discussion
Rapid Fire Session 4D – Total Hip (<i>Lakspur</i>)	
2:15 pm – 2:19 pm	615 - Early Outcomes of Cementless Collared Triple-Taper Stems in Osteoporotic Patients Undergoing Elective THA <i>Claudio Diaz-Ledezma, MD, University of California San Francisco</i>
2:19 pm – 2:23 pm	473 - Postoperative Complications following THA Among GLP1 and SGLT2 Users <i>Smaran Garlapati, BA, UT Southwestern Medical Center</i>
2:23 pm – 2:27 pm	39 - Indications for Dual-Mobility Demonstrate Significant Differences in Subsequent Instability <i>Kelechi Nwachuku, MD, University of California, San Francisco</i>
2:27 pm – 2:31 pm	496 - DAIR vs. One-Stage Exchange for Acute PJI after Index THA <i>Muaz Wahid, BS, University of Texas Southwestern</i>
2:31 pm – 2:35 pm	Discussion
2:35 pm – 2:39 pm	229 - Intraoperative Infrared Thermography in Direct Anterior Total Hip Arthroplasty: Characterizing the Peri-Incisional Thermal Profile and Early Healing Outcomes <i>Angel Xiao, MD, MSE UCSF</i>

- 2:39 pm – 2:43 pm 32 - Postoperative Abduction Bracing and Early Dislocation after Revision THA
Derek Amanatullah, MD, PhD, Stanford University
- 2:43 pm – 2:47 pm 481 - HRT Duration on 10-Year Revisions and Complications following Primary THA
Smaran Garlapati, BA, UT Southwestern Medical Center
- 2:47 pm – 2:51 pm 223 - Aspirin vs. Enoxaparin for Thromboembolic Chemoprophylaxis in Aseptic Revision THA
Arjun Aron, BS, University of Southern California
- 2:51 pm – 2:55 pm 191 - Testosterone Replacement Therapy without Hypogonadism Demonstrates Increased Complications following THA
Varun Sharma, MD, Banner University, Phoenix
- 2:55 pm – 3:00 pm Discussion
- Rapid Fire Session 4E – Pediatrics (Astor)**
- 2:15 pm – 2:19 pm 604 - Radiographic Predictors of Open Reduction in Pediatric Supracondylar Humerus Fractures
Harlene Kaur, BS, UMass Chan Medical School
- 2:19 pm – 2:23 pm **Jennette Boakes, MD Travel Grant Award**
109 - The Use of Ultrasound in Treating At-Risk Hips for DDH
Oluwatofe Alimi, MD, University of Texas Medical Branch at Galveston
- 2:23 pm – 2:27 pm **Richard J. Haynes, MD Travel Grant Award**
477 - Selective Percutaneous Myofascial Lengthening Results in Sustained Mid-Term Motion Improvements
Tristan Elias, MD, UTMB
- 2:27 pm – 2:31 pm 497 - Reduction of Radiation Exposure with Synthetic CT in Pediatric Spondylolysis
Prudhvi Kodali, BA, Cedars-Sinai
- 2:31 pm – 2:35 pm Discussion
- 2:35 pm – 2:39 pm 117 - PDSA Pathway Power: Tiny Cycles, Giant Steps against SSIs
John Vorhies, MD, Stanford University

2:39 pm – 2:43 pm 544 - Social Vulnerability Index and Pediatric Femoral and Tibial Shaft Fractures
Vahe Yacoubian, MD, MPH, Loma Linda University

2:43 pm – 2:47 pm 535 - Correlation of PROMIS-25 and QuickDASH in Pediatric Upper Extremity Trauma
Nicholas Kelly, BA, University of California, San Francisco
**Presented by Sarah Coufal*

2:47 pm – 2:51 pm 235 - Postoperative Mobility Restoration after Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis
Claire Rushin, MD, Stanford Healthcare

2:51 pm – 2:55 pm 112 - Can Rib Splints Reduce Proximal Anchor Failure? A Biomechanical Pilot Study
John Vorhies, MD, Stanford University

2:55 pm – 3:00 pm Discussion

Resident Course

Moderator: Marney Reid

3:00 pm – 5:00 pm
**CME Credit not available*

Medical Student Session

Moderator: John A. Scolaro, MD, *University of California, Irvine*

3:00 pm – 3:10 pm How to Be a Good Sub-I
Jacob Ball, MD, University of Southern California

3:10 pm – 3:20 pm PD Perspective
John A. Scolaro, MD, University of California, Irvine

3:20 pm – 3:30 pm PD Perspective
Nicholas A. Alfonso, MD, University of Colorado

3:30 pm – 4:00 pm Panel Discussion
**CME Credit not available*

3:00 pm – 4:00 pm **Scientific Poster** (*Broadmoor F*) (Presenters are available to answer questions)

3:00 pm – 4:00 pm

Scientific E-Poster Session (*Broadmoor D & C*)
(Presenters are available to answer questions)

Saturday, August 1st

6:30 am – 7:30 am

Scientific Poster (*Broadmoor F*) (Presenters are available to answer questions)

6:30 am – 7:30 am

Scientific E-Poster Session (*Broadmoor D & C*)
(Presenters are available to answer questions)

7:15 am – 7:25 am

Second Business Meeting
**CME Credit not available*

7:25 am – 7:30 am

Announcements
Nicholas A. Alfonso, MD, Program Co-Chair
Luke T. Nicholson, MD, Program Co-Chair

Rapid Fire Session 5A – Upper Extremity (*Broadmoor D*)

7:35 am – 7:39 am

572 - Patient-Associated Factors Influencing Loss of Follow-Up after Treatment for Acute Upper-Extremity Infections
Amara Emeh, BA, Keck School of Medicine of University of Southern California

7:39 am – 7:43 am

643 - Management of Acute Upper Extremity Musculoskeletal Injuries following Dog Bites
Joshua Davood, BS, Keck School of Medicine of USC

7:43 am – 7:47 am

525 - Postoperative Risks in Nicotine-Dependent Patients Undergoing Distal Biceps Tendon Repair
Jonathan Sayegh, BS, University of Arizona College of Medicine - Tucson

7:47 am – 7:50 am

Discussion

7:50 am – 7:54 am

494 - Trends in TMR and RPNI Procedures Over the Past 20 Years: A Retrospective Database Analysis
Amara Emeh, BA, Keck School of Medicine of University of Southern California

- 7:54 am – 7:58 am 540 - Employment Status but Not Area Deprivation Index Is Associated with Differences in PROMIS Physical Function and Upper Extremity Outcomes in a Musculoskeletal Cohort
Lincoln Koyejo, BS, University of Arizona College of Medicine Tucson
- 7:58 am – 8:02 am 407 - Intraoperative Neuromonitoring in Brachial Plexus Surgery: Protocol Variability, Clinical Impact, and Age-Specific Applications-A Systematic Review
Hannah Heithoff, BS, Central Michigan University College of Medicine
- 8:02 am – 8:05 am Discussion
- Rapid Fire Session 5B – Total Joint (*Broadmoor C*)**
- 7:35 am – 7:39 am 573 - New Persistent Opioid Use among Opioid-Naive Patients is Associated with Late Complications after Total Hip and Knee Arthroplasty
Kylen Soriano, MD, University of California, Irvine
- 7:39 am – 7:43 am 54 - Arthroplasty Infection Risk in Patients Receiving Recent Hand Corticosteroid Injections
Liam Wong, MD, University of California, San Francisco
- 7:43 am – 7:47 am 23 - Bone Density Measurements Opportunistically Obtained from Robotic Arthroplasty CT-Scans
Foster Chen, MD, Virginia Mason Franciscan Health
- 7:47 am – 7:50 am Discussion
- 7:50 am – 7:54 am 574 - Community Social Vulnerability and THA/TKA Hospital Outcomes
Mark Awoniyi, BS, Loma Linda University School of Medicine
- 7:54 am – 7:58 am 339 - Optimal Interstage Period for Reimplantation in Two-Stage Total Knee Arthroplasty
Yijie Luo, BS, UC Irvine School of Medicine
- 7:58 am – 8:02 am 546 - Anxiety Associated with Worse Outcomes after Revision Total Joint Arthroplasty
Jacob Bershatski, BS, University of Arizona College of Medicine - Tucson

8:02 am – 8:05 am Discussion

Rapid Fire Session 5C – Basic Science (*Columbine*)

7:35 am – 7:39 am 51 - Comparing W-Plate vs. Superior Plating in APC-III Pelvic Ring Injuries
Brandi Krieg, MD, University of Colorado

7:39 am – 7:43 am 230 - Load to Failure of Endoprosthetic Proximal Humerus Reconstructions
Mathangi Sridharan, MD, University of California, Los Angeles

7:43 am – 7:47 am 414 - Germanium Bioactive Fabric Reduces Bioburden, Directs Fibroblast and Macrophage Behavior
Nicholas Tucker, MD, University of Colorado Anschutz

7:47 am – 7:50 am Discussion

7:50 am – 7:54 am 470 - Biocompatible Medical Foam to Reduce Bacterial Bioburden in Traumatic Wounds
Jacqueline Linn, BS, Colorado State University

7:54 am – 7:58 am 116 - Dental Composite-Plate Constructs are Similar to Screw-Rod Stability in Atlantoaxial Fusion in a Human Cadaveric Model
Harsh Wadhwa, BS, Stanford University

7:58 am – 8:02 am 558 - Fatty Infiltration in Chronic Rotator Cuff Injury Induces Neuropathic Pain Significantly Alleviated with Gabapentin
Alex Youn, AB, University of California, San Francisco

8:02 am – 8:05 am Discussion

Rapid Fire Session 5D – Sports Medicine (*Lakspur*)

7:35 am – 7:39 am 502 - Increased Wound Complications with Isotretinoin Prescriptions before Orthopaedic Sports Procedures
Bill Young, BS, Stanford University

7:39 am – 7:43 am 4 - Academic Influence and Industry Funding in Platelet Rich Plasma Injections
Christopher Fang, MD, Kirk Kerkorian School of Medicine at UNLV

- 7:43 am – 7:47 am 87 - Hormonal Contraceptive Use and Lower-Extremity Injury Risk in Female Athletes
Ahad Kesaria, BS, University of Texas Medical Branch at Galveston
- 7:47 am – 7:50 am Discussion
- 7:50 am – 7:54 am 534 - Management of Relative Energy Deficiency in Sport (RED-S): Literature Review
Beatrice Weier, BS, California Health Sciences University – College of Osteopathic Medicine
- 7:54 am – 7:58 am 226 - Impact of Preoperative Depression and Antidepressant Use on Postoperative Outcomes Following Knee Arthroscopy: A Retrospective Cohort Study
Roumina Ghamarian, UTMB - Galveston
- 7:58 am – 8:02 am 454 - Intraoperative Platelet-Rich Plasma does not Alter Complication Rates after Meniscus Repair
Dean Wang, MD, University of California, Irvine

8:02 am – 8:05 am Discussion

Rapid Fire Session 5E – Tumor (Astor)

- 7:35 am – 7:39 am 622 - Outcomes and Complications with the OPRA™ Implant in Transfemoral Amputees
Supraja Kadagandla, BS, McGovern Medical School at UTHealth Houston
- 7:39 am – 7:43 am 92 - Outcomes of Operative vs. Nonoperative Treatment for Humerus Metastatic Disease
Branden Brooks, BS, University of California, Davis
**Presented by Kyle Centave*
- 7:43 am – 7:47 am **Cynthia Kelly, MD Travel Grant Award**
175 - Predictors of Postoperative Complications in Sarcoma Resections of the Thigh
Brandon Gettleman, MD, University of California, Los Angeles
- 7:47 am – 7:50 am Discussion

- 7:50 am – 7:54 am 233 - Primary Targeted Muscle Reinnervation and Regenerative Peripheral Nerve Interface Surgery Reduces Revision Rates after Limb Amputation
Mathangi Sridharan, MD, University of California, Los Angeles
- 7:54 am – 7:58 am 126 - Database Level Evidence Demonstrates Improved Outcomes following Prophylactic Fixation of Impending Fractures Compared to Pathologic Fracture Fixation
Melissa Romoff, BA, University of California, Irvine
- 7:58 am – 8:02 am 165 - Quality of Life in Pediatric Lower Extremity Bone Sarcomas
Hanna Gratny, BS, University of Colorado, Department of Orthopedic Surgery
- 8:02 am – 8:05 am Discussion
- 8:15 am – 8:35 am **Focused Breakfast Presentation**
**CME Credit not available*
- 8:45 am – 9:10 am** ***Break – Please visit exhibits***

Symposium 5 – Career Guidance

Moderator: Brian T. Feeley, MD, *University of California, San Francisco*

- 9:10 am – 9:20 am How to Plan for (and Execute) a Graceful Retirement
Lawrence R. Menendez, MD, University of Southern California
- 9:20 am – 9:30 am Involvement in Societies
Valerae O. Lewis, MD, MD Anderson Cancer Center
- 9:30 am – 9:40 am Grants and Research Early in Practice
Joseph T. Patterson, MD, University of Southern California
- 9:40 am – 9:50 am Excelling in an Orthopaedic Career: Expert Advice from Cradle to Grave
Brian T. Feeley, MD, University of California, San Francisco
- 9:50 am – 10:00 am Discussion

Concurrent ICL 3A – Joints (Not Main Room)

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

- 10:10 am – 10:20 am Surgical Pearls to Enhance the Anterior Approach and Facilitate Component Implantation
Lucas A. Anderson, MD, University of Utah
- 10:20 am – 10:30 am Surgical Pearls to Enhance the Posterior Approach and Facilitate Component Implantation
Steven M. Engstrom, MD, MBA, Vanderbilt University
- 10:30 am – 10:40 am Five Things You Can Do to Enhance Results of Total Hip Arthroplasty
Jay R. Lieberman, MD, University of Southern California
- 10:40 am – 10:50 am Surgical Pearls to Manage Total Hip Arthroplasty After Failed Femoral Fracture Fixation
Nathanael D. Heckmann, MD, University of Southern California
- 10:50 am – 11:10 am Discussion

Concurrent ICL 3B – Trauma (*Broadmoor D*)

Moderator: Gillian Soles, MD, *University of California, Davis*

- 10:10 am – 10:20 am Femoral Neck Fractures: Update on Management and Treatment
Gillian Soles, MD, University of California, Davis
- 10:20 am – 10:30 am Pterochantheric Femur Fractures Tips and Tricks
Christian S. Bromfield, MD, University of California, Davis
- 10:30 am – 10:40 am Distal Femur Fracture Fixation Strategies
Graham J. Dekeyser, MD, Oregon Health and Sciences University
- 10:40 am – 10:50 am LC1 Pelvic Ring Injuries: When to Fix and How?
Daniel D. Wang, MD, University of Colorado
- 10:50 am – 11:10 am Discussion

Concurrent ICL 3C – Hand (*Broadmoor C*)

Moderator: Eugene Tsai, MD, *Cedars-Sinai Medical Center*

- 10:10 am – 10:20 am Title TBD
Eugene Tsai, MD, Cedars-Sinai Medical Center
- 10:20 am – 10:30 am Neuroma Management

Fraser Leversedge, MD, University of Colorado

10:30 am – 10:40 am

SL Updates
Jeffrey Yao, MD, Stanford University

10:40 am – 10:50 am

Intramedullary Fixation Of The Long Bones Of The Hand;
Metacarpals And Phalanges
Deana Mercer, MD, University of New Mexico

10:50 am – 11:10 am

Discussion

11:20 am – 11:40 am

Focused Lunch Presentation
**CME Credit not available*

Rapid Fire Session 6A – Sports Medicine (Broadmoor D)

11:45 am – 11:49 am

Robert Eilert, MD Travel Grant Award
627 - Does Payer Status Matter? Meniscus Repair
Outcomes in ACL Reconstruction
Melissa Song, Stanford University

11:49 am – 11:53 am

327 - Restoring Knee Function with Arthroscopic
Particulated Juvenile Articular Cartilage Allografts
*Justin Wu BS, University of Colorado Anschutz Medical
Campus*

11:53 am – 11:57 am

33 - Tibial Inlay vs. Transtibial PCL Reconstruction: A
Matched Cohort Study
*Abigail McDonald, BS, MS, University of Washington
School of Medicine*

11:57 am – 12:01 pm

541 - The Patellotrochlear Index is Substantially more
Influenced by Knee Effusion Compared to Other Metrics of
Patellar Height
*Lexie Ross, MD, Stanford University Department of
Orthopaedic Surgery*

12:01 pm – 12:05 pm

Discussion

12:05 pm – 12:09 pm

389 - Markerless Motion Capture Cannot Replace
Radiographs for Alignment Screening
Allen Seo, BS, MS Stanford University

12:09 pm – 12:13 pm

484 - Return to Sport After Multiligamentous Knee Injury:
A Systematic Review

Ahmed I. Zabiba, University of California Davis Health

- 12:13 pm – 12:17 pm 356 - Two-Year Outcomes Comparing Arthroscopic Cartilage Repair Techniques in the Knee
Frank Zhou, BA, University of Colorado Anschutz School of Medicine
- 12:17 pm – 12:21 pm 221 - Predictors of MCL Healing in Combined ACL/MCL Injuries
Samuel Flesner, BS, University of New Mexico School of Medicine
- 12:21 pm – 12:25 pm 606 - Impact of Obesity on Outcomes Following Anterior Cruciate Ligament Reconstruction
Harlene Kaur, BS, UMass Chan Medical School
- 12:25 pm – 12:30 pm Discussion

Rapid Fire Session 6B – Spine (Broadmoor C)

- 11:45 am – 11:49 am 633 - Lumbar Fusion Outcomes in Men Using 5-Alpha Reductase Inhibitors
Adam Sina, BS, Keck School of Medicine of USC
**Presented by Joshua Davood, BS*
- 11:49 am – 11:53 am 55 - Robotic Assisted Percutaneous Iliac Fixation - Outcomes, History, and Review
Chris Franquemont, BS, Loma Linda School of Medicine
- 11:53 am – 11:57 am 125 - Validation and Component Analysis of the Outpatient Appropriateness Frailty Score (OAFS) in a Large Academic Spine Surgery Cohort
Thomas Olson, MD, UCLA
- 11:57 am – 12:01 pm 205 - Allogenic Stem Cells in Lumbar Interbody Spinal Fusion: A Retrospective, Matched-Cohort Study
Vikas Patel MD, MA, BSME, University of Colorado
- 12:01 pm – 12:05 pm Discussion
- 12:05 pm – 12:09 pm 240 - Preoperative Anemia Severity Predicts Complications following Lumbar Decompression
Melissa Romoff, BA, University of California, Irvine
**Presented by Emily L. Tse, BA*

- 12:09 pm – 12:13 pm 203 - Preoperative Patient-Reported Outcomes Predict Postoperative Function and Clinically Meaningful Improvement following Adult Spinal Deformity Correction
Renzo Laynes, MD, Virginia Mason Medical Center
- 12:13 pm – 12:17 pm 410 - No Difference in Surgical Site Infection Between Cefazolin and Alternatives
Aidan Lindgren, BS, Keck School of Medicine
- 12:17 pm – 12:21 pm 209 - Use of Biplanar X-Ray Imaging to Identify Relationship of Spinopelvic Parameters to Patient Anthropometric Variables
Christopher Kleck, MD, University of Colorado
- 12:21 pm – 12:25 pm 311 - The Impact of GLP-1 Agonist Prior to Lumbar Spine Surgery on Patient Outcomes and Complication Rates
Mark Prasarn, MD, Houston Methodist
- 12:25 pm – 12:30 pm Discussion
- Rapid Fire Session 6C – Shoulder & Elbow (Columbine)**
- 11:45 am – 11:49 am 617 - Arthroplasty vs. Fixation: A Multicenter Study of 491 Radial Head and Neck Fractures
Brendan Shi MD, UCLA
- 11:49 am – 11:53 am 111 - Olecranon Osteotomy in Distal Humerus Fixation and Associated Non-Union Rates
Deana Mercer, MD, University of New Mexico Health Sciences Center
- 11:53 am – 11:57 am 342 - Operative vs. Nonoperative Management of Olecranon Fractures in Low-Demand Patients
Crystal Yu, BS, UC Irvine School of Medicine
- 11:57 am – 12:01 pm 35 - Pectoralis Minor Tenotomy Reduces Pain in Intractable Shoulder Syndromes
Ketan Sharma, MD, MPH, St Luke's Plastic and Reconstructive Surgery
- 12:01 pm – 12:05 pm Discussion
- 12:05 pm – 12:09 pm **Frank G. Guellich, MD Travel Grant Award**
9 - Survivability of Latarjet vs. Anterior Glenoid Reconstruction in Military Members
Michael Deegan, MD, MAMC Orthopaedics

12:09 pm – 12:13 pm	588 - Overhead Throwing is Associated with Increased Glenoid Retroversion and Distinct Morphologic Remodeling <i>Karch Smith, MD, University of California San Diego Health</i>
12:13 pm – 12:17 pm	636 - Active Epilepsy Increases Emergency Visits and Recurrent Instability following Stabilization <i>Reginald Chinweze, MD, LLM UC Davis</i>
12:17 pm – 12:21 pm	520 - Association Between PRP Use and Impingement Syndrome after Rotator Cuff Repair <i>Diego Garcia, BS, University of Arizona</i>
12:21 pm – 12:25 pm	532 - Assessing the Performance Decline in NHL Players following Shoulder Surgery <i>Yazin Hindosh, BS, University of Arizona College of Medicine Tucson</i>
12:25 pm – 12:30 pm	Discussion
Rapid Fire Session 6D – Practice Management / Education (Lakspur)	
11:45 am – 11:49 am	371 - Assisted Reproductive Technology (ART) Coverage in Orthopaedic Training Programs <i>Alexia Childress, BS, University of Virginia School of Medicine</i>
11:49 am – 11:53 am	461 - Venous Thromboembolism Incidence and Management in Ambulatory Orthopedic Surgery <i>Conally Cooper, University of Colorado Anschutz Medical Campus</i>
11:53 am – 11:57 am	435 - Medical Student Sawbones and Barriers to Pursuing Orthopaedic Surgery <i>Nora Galoustian, BA, UCLA DGSOM</i>
11:57 am – 12:01 pm	578 - A 13-Year Analysis of Orthopedic Surgeon Representation Across Ten NIH Musculoskeletal Study Sections <i>Kory B. Dylan Pasko, BS, University of California, Irvine</i>
12:01 pm – 12:05 pm	Discussion

- 12:05 pm – 12:09 pm 69 - Where Does Orthopaedic Surgery Stand in the Endowed Professorship Landscape?
Miriam Sheetz, BS, SUNY Downstate College of Medicine
- 12:09 pm – 12:13 pm 298 - Integrating AI Interactive Platforms into Outpatient Orthopaedic Surgery Clinic Workflow
Sahil Telang, BS, Keck School of Medicine of USC
- 12:13 pm – 12:17 pm 334 - Orthopedic Surgeons Underutilize ChatGPT and TikTok vs. the General Population
Divya Bhatia, UC Irvine
**Presented by Nitin Bhatia, MD*
- 12:17 pm – 12:21 pm 120 - Pathways into Orthopaedic Surgery Research: A National Medical Student Survey
Carson Cummings, BS, Loma Linda University School of Medicine
- 12:21 pm – 12:25 pm 8 - Does Degree Matter? Research Metrics Among MD/DO Orthopaedic Surgery Residents
Christopher Fang, MD, Kirk Kerkorian School of Medicine at UNLV
- 12:25 pm – 12:30 pm Discussion

Rapid Fire Session 6E – Trauma (Astor)

- 11:45 am – 11:49 am **WOA/WOF Resident Travel Grant Award**
224 - Temporary Coverage of Type IIIB Open Tibia Fractures: A Multicenter Review
Jacquelyn P. Cruz, MD, Stanford HealthCare
- 11:49 am – 11:53 am **Paul C. Collins, MD Travel Grant Award**
236 - The CDC Wound Classification Fails to Predict Infection in High-Energy Orthopaedic Trauma: A Comparison to the OTA Wound Classification System
Kory B. Dylan Pasko, BS, University of California, Irvine
- 11:53 am – 11:57 am 642 - Callus Healing Velocity Predicts Nonunion Revision after Distal Femur Fixation
Michael Seidu, BSc, UC Davis School of Medicine
- 11:57 am – 12:01 pm 518 - Tibial Plateau Fractures with Tubercle Involvement Show Higher Nonunion Rates
Robert Hernandez, BA, UC Davis School of Medicine

12:01 pm – 12:05 pm	Discussion
12:05 pm – 12:09 pm	289 - GLP-1 Receptor Agonists Reduce Fragility Fracture Risk Independent of Weight and Glycemic Changes <i>Christopher Hamad, MD, University of California Los Angeles</i>
12:09 pm – 12:13 pm	16 - National Trends in Osteoporosis Medication Use after Fragility Fracture <i>Harsh Wadhwa, BS, Stanford University</i>
12:13 pm – 12:17 pm	218 - Neutrophil-Lymphocyte Ratio Trajectories Predict Complications after Hip Fracture <i>Julian Wier, MD, University of Southern California Keck School of Medicine</i>
12:17 pm – 12:21 pm	80 - Diagnostic Utility of Alpha-Defensin Testing in Native Knee Septic Arthritis <i>Brandon Wood, BS, MAT, UT Southwestern</i>
12:21 pm – 12:25 pm	307 - Type IIIa Open Lower Extremity Fractures and Infection with Nighttime Debridement <i>Colin Lipps, MD, UC Irvine</i> <i>*Presented by Sebastian Arzayus Dominguez, BBA</i>
12:25 pm – 12:30 pm	Discussion

General Session 5 – WOF Endowed Resident and Fellows Awards

Moderators: Nicholas A. Alfonso, MD, *University of Colorado*
 Luke T. Nicholson, MD, *University of Southern California*

12:40 pm – 12:46 pm	107 - Neviaser Portal for Humeral Nail Eliminated Iatrogenic Rotator Cuff Injury <i>Rory Byrne, MD, University of Utah</i>
12:46 pm – 12:52 pm	614 - Should Deep Cultures be Taken at the Time of Revision Shoulder Arthroplasty for Non-Infectious Etiologies? <i>Andrew Collins, MD, University of Washington</i>
12:52 pm – 12:58 pm	561 - Benefits of Early Continuous Administration of Weight-Based Low Molecular Weight Heparin in Orthopaedic Trauma Patients <i>Kevin Zhu, MD, University of California, San Diego</i>

12:58 pm – 1:04 pm	113 - Metabolic Modulation of Spinal Implant-Associated Staphylococcus aureus Infection in Type 2 and Type 1 Diabetes: Phenotype-Specific Inflammatory Features and Therapeutic Response to Semaglutide <i>Thomas Olson, MD, UCLA</i>
1:04 pm – 1:10 pm	482 - Effect of Smoke-Evacuating Electrocautery Use on Operating Room Air Quality <i>Daniel Santana, MD, MS, University of California Davis</i>
1:10 pm – 1:16 pm	409 - Lesser Tuberosity Perfusion after AHCA Ligation <i>Tyler Thorne, MD, University of Utah</i>
1:16 pm – 1:22 pm	81 - Matching Choices Significantly Influence Conclusions in Arthroplasty Database Research <i>Jens Verhey, MD, Mayo Clinic Arizona</i>
1:22 pm – 1:28 pm	100 - Randomized Control Trial of Aperture Fixation vs. Suture Button <i>Aaron Tran, MD, University of California, San Diego</i>
1:28 pm – 1:34 pm	Clarence and Sherril Splithoff Pediatric Orthopaedic Surgery Award 280 - Lateral Extra Articular Tenodesis Is Associated with Early Range of Motion Restriction after Pediatric ACLR <i>Christopher Hamad, MD, University of California Los Angeles</i>
1:34 pm – 1:40 pm	John S. Smith Sr., MD, Military Resident Research Award 628 - Open vs. Arthroscopic Anterior Glenoid Reconstruction: A Comparative Analysis <i>Colby Brunette, MD, Madigan Army Medical Center</i>
1:40 pm– 1:45 pm	Discussion
Symposium 6 – General	
Moderator: Carol A. Lin, MD, <i>Cedars-Sinai Medical Center</i>	
1:45 pm – 1:55 pm	Tips and Tricks While on Call <i>Edgar T. Araiza, MD, Methodist Health System</i>
1:55 pm – 2:05 pm	Own the Bone <i>Carol A. Lin, MD, Cedars-Sinai Medical Center</i>
2:05 pm – 2:15 pm	Sports Team Management

Eric C. McCarty, MD, University of Colorado

2:15 pm – 2:25 pm

Orthopaedics and the Military

Lt Col Travis J. Dekker, MD, US Air Force Academy

2:25 pm – 2:35 pm

Discussion

2:35 pm – 3:35 pm

Scientific Poster (*Broadmoor F*) (Presenters are available to answer questions)

2:35 pm – 3:35 pm

Scientific E-Poster Session (*Broadmoor D & C*) (Presenters are available to answer questions)