

WOA Scientific Program
Hyatt Regency Monterey, Monterey, CA
July 31 – August 3, 2019

Thursday, August 1

5:45 am – 6:45 am

Scientific Poster & E-Poster Sessions

6:45 am – 6:55 am

First Business Meeting

6:55 am – 7:00 am

Welcome, Announcements and Meeting Overview

David H. Chafey III, MD, Program Co-Chair

David J. Mansfield, MD, Program Co-Chair

Omer A. Ilahi, MD, President

Symposium 1 – Shoulder/Elbow Surgery

Moderator: Ronald A. Navarro, MD, *Kaiser Permanente*

7:00 am – 7:15 am

Treatment Options in Proximal Humeral Fractures

T. Bradley Edwards, MD, Fondren Orthopedic Group LLP

7:15 am – 7:30 am

Clavicle Trauma from Acromion to Sternum

Ronald A. Navarro, MD, Kaiser Permanente

7:30 am – 7:45 am

Elbow Trauma and the Roles of Radial Head and Total Elbow Arthroplasty

Mark T. Dillon, MD, Kaiser Permanente Sacramento

7:45 am – 7:50 am

Discussion

7:50 am – 8:20am

Focused Brunch Presentation – Heron Therapeutics

Benefits and Limitations of Local Anesthetics in

Postoperative Pain

Alexander P. Sah, MD

*CME Credit Not Available

Rapid Fire Session 1A – Trauma Fixation & Fracture Healing

Moderator: Jason W. Stoneback, MD, *University of Colorado*

Conor P. Kleweno, MD, *Harborview Medical Center*

8:25 am – 8:29 am

151 - Timing of Fixation and Wound Closure for Open Ankle Fractures

Marschall Berkes, MD, University of Texas Health Science Center at Houston

- 8:29 am – 8:33 am 423 - Patients Benefit from Recording Postoperative Instructions after Ankle Fracture Surgery
Sam Y. Jiang, BA, Stanford University
- 8:33 am – 8:37 am 20 - How do Pilon Fractures Heal? An Analysis of Dual Plating, Biomechanically Matched Fixation, and Callus Formation
Sean T. Campbell, MD, Stanford University
- 8:37 am – 8:41 am 359 - Titanium vs. Stainless Steel: Clinical Superiority Despite Biomechanical Inferiority
Matthew Burnham, BS, University of Arizona College of Medicine - Phoenix
**Presented by Richard Auran, MD*
- 8:41 am – 8:45 am Discussion
- 8:45 am – 8:49 am 257 - Biomechanical Comparison of Bone-Screw-Fasteners vs. Traditional Locked Screws
Malcolm DeBaun, MD, Stanford University
- 8:49 am – 8:53 am 69 - Operative Outcomes in Distal Humerus Fractures with One-Year Follow Up
Philip Locker, MD, University of California, San Francisco
- 8:53 am – 8:57 am 246 - Tapered Plate Geometry Reduces Stress Shielding in the Humeral Shaft
Tennyson L. Block, MD, San Francisco Orthopedic Residency Program, St. Mary's Medical Center
- 8:57 am – 9:01 am 68 - Factors Predicting Postoperative Adverse Events in Distal Humerus Fractures
Kamran Movassaghi, MD, University of California, San Francisco
- 9:01 am – 9:05 am Discussion

Rapid Fire Session 1B – Total Hip

Moderator: Brian A. Jewett, MD, *Slocum Center for Orthopedics and Sports Medicine*
Derek F. Amanatullah, MD, PhD, *Stanford University*

- 8:25 am – 8:29 am 317 - Metal on Metal THA: Pseudotumor with Intermittent Unilateral Vascular Claudication
Alex Lencioni, MD, University of Colorado

- 8:29 am – 8:33 am 442 - Sleep Disturbance in Patients with Femoroacetabular Impingement and Acetabular Dysplasia
Nisha Reddy, BA, UT Southwestern Medical Center
- 8:33 am – 8:37 am 60 - Understanding the Learning Curve: Comparison of First 75 Direct Anterior THAs to Concomitant Established Mini-Posterior THAs
Alexander P. Sah, MD, Institute for Joint Restoration
- 8:37 am – 8:41 am 61 - Implant Size and Outcome Differences in Staged Bilateral THA in 300 Patients
Alexander P. Sah, MD, Institute for Joint Restoration
- 8:41 am – 8:45 am Discussion
- 8:45 am – 8:49 am 62 - Learning Curve for the Direct Superior Approach to Total Hip Arthroplasty
Rami M. Ezzibdeh, Stanford University School of Medicine
- 8:49 am – 8:53 am 161 - Smooth Reamer Impaction Autografting for Total Hip Arthroplasty in the Setting of Acetabular Protrusion
Adam A. Sassoon, MD, University of California, Los Angeles
- 8:53 am – 8:57 am 146 - Entrapped Posteromedial Structures after Spanning External Fixation in Tibial Pilon Fractures
Preet Gurusamy, MD, University of California, San Diego
- 8:57 am – 9:01 am 371 - Government Significantly Reduced Reimbursement for Surgical Hip Fracture Treatment
Cory K. Mayfield, BS, Keck School of Medicine of the University of Southern California
- 9:01 am – 9:05 am Discussion

Rapid Fire Session 1C – Pediatrics

Moderator: Ellen M. Raney, MD, *Shriners Hospital for Children*
Stephanie Logterman, MD, *Denver Health Medical Center*

- 8:25 am – 8:29 am 159 - Return to Sport after Posterior Spinal Fusion for Idiopathic Scoliosis
Allison Tetreault, MD, University of Colorado
- 8:29 am – 8:33 am 210 - Skeletal Age Assessment by Calcaneal Apophyseal Stage in Cerebral Palsy

Donald T. Kephart, MD, University of California, Davis Medical Center

8:33 am – 8:37 am

416 - AAOS Appropriate Use Criteria: Management of Supracondylar Humerus Fractures at a Level I Trauma Center

Diana G. Douleh, MD, University of Colorado

8:37 am – 8:41 am

448 - Measuring the Acetabular Index; An Accurate and Reliable Alternative Method of Measurement

Benjamin J. Sherman, DO, Children's Hospital of Orange County

8:41 am – 8:45 am

Discussion

8:45 am – 8:49 am

410 - Mini C-Arm vs. Portable Radiograph: Radiation Exposures with Closed Reduction in the ED

Eli Ahdoot, DO, Children's Hospital of Orange County

8:49 am – 8:53 am

191 - Does Univalve Location Differentially Effect Pressures at the Three-Point Mold?

Blake K. Montgomery, MD, Stanford University

8:53 am – 8:57 am

338 - Distinguishing Septic Arthritis from Aseptic Effusion in Pediatric Irritable Knee

Claudia S. Thomas, MD, University of Washington

8:57 am – 9:01 am

270 - Incidence of Coxa Profunda and Other Signs of FAI in Adolescents with DDH

Tyler R. Freeman, MD, University of Colorado

9:01 am – 9:05 am

Discussion

Rapid Fire Session 1D – Hand & Wrist

Moderator: Basil R. Besh, MD, *Fremont Orthopaedic & Rehabilitative Medicine*
Gregory L. DeSilva, MD, *University of Arizona Health Sciences*

8:25 am – 8:29 am

241 - Application of Cryotherapy to Casts Reduces Skin Surface Temperature

Neal Goldenberg, MD, San Francisco Orthopedic Residency Program, St. Mary's Medical Center

8:29 am – 8:33 am

63 - Biomechanical Comparison of Flexor Digitorum Profundus Avulsion Repair

Jill G. Putnam, University of Arizona College of Medicine-Phoenix

- 8:33 am – 8:37 am 330 - Time to Case Closure of Occupational Hand Injuries
Aaron Gray, MD, University of Nevada Las Vegas School of Medicine
- 8:37 am – 8:41 am 23 - Ethnicity-Related Prevalence of Obesity in Children with Distal Radius Fractures Compared with National Values
Jessica Avila, BS, Texas Tech University Health Science Center
- 8:41 am – 8:45 am Discussion
- 8:45 am – 8:49 am 72 - Radiographic Outcomes of Dorsal Spanning Plate for Treatment of Comminuted Distal Radius Fractures
Behnam Sharareh, MD, Baylor College of Medicine
- 8:49 am – 8:53 am 78 - Wide-Awake Hand Surgery Associated with Decreased Opioid Use and Morbidity
Gopal R. Lalchandani, MD, University of California, San Francisco
- 8:53 am – 8:57 am 344 - Patient Outcomes and Costs after Isolated Flexor Tendon Repair
Gopal R. Lalchandani, MD, University of California, San Francisco
- 8:57 am – 9:01 am 37 - Distal Ulna Morphology – Estimating the Prevalence of Reverse Obliquity
Blake Schultz, MD, Stanford University
- 9:01 am – 9:05 am Discussion

Rapid Fire Session 1E – Basic Science

Moderator: Russell Stitzlein, MD, *University of California, Irvine*
Trevor J. Shelton, MD, *University of California, Davis*

- 8:25 am – 8:29 am 99 - Do Pre-Operative Transcutaneous Oxygen Perfusion Measurements Predict Atraumatic Amputation Wound Healing?
Naudereh Noori, MD, Cedars Sinai Medical Center
- 8:29 am – 8:33 am 74 - Multimodal Imaging Guides Surgical Management in Preclinical Spinal Implant Infection
Stephen Zoller, MD, University of California, Los Angeles

- 8:33 am – 8:37 am 119 - Lateral Femoral Cortical Thickness Correlates to Femoral Bone Mineral Density
Musa Zaid, MD, University of California San Francisco
- 8:37 am – 8:41 am 221 - Zoledronic Acid Decreases Infection in Mouse Spine Implant Infection Model
Chad Ishmael, MD, University of California, Los Angeles
- 8:41 am – 8:45 am Discussion
- 8:45 am – 8:49 am 300 - Ex-Vivo Human Chondrocyte Toxicity After Exposure to Tranexamic Acid
Erika L. Garbrecht, MD, University of New Mexico
- 8:49 am – 8:53 am 283 - Adipose-Derived Stem Cell Quantity in Infrapatellar Fat vs. Subcutaneous Lipoaspirate
Hyunwoo P. Kang, MD, University of Southern California
- 8:53 am – 8:57 am 136 - Can Drilling Energy Predict Bone Mineral Density and Screw Pullout Strength in Cadaveric Bone?
Michael J. Chen, MD, Stanford Orthopaedic
- 8:57 am – 9:01 am 279 - Pre-Operative Use of a Chlorohexidine-Impregnated Sponge Reduces Skin Soil Contamination
Byron H. Izuka, MD, Childrens Orthopaedics of Hawaii
**Presented by Trent M. Tamate, MD*
- 9:01 am – 9:05 am Discussion
- 9:05 am – 9:25 am *Break – Please visit Exhibits*

General Session 1 – Howard Steel Lecture

Moderator: Omer A. Ilahi, MD, *Southwest Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute*

- 9:25 am – 9:30 am Tribute to Howard Steel
Theodore L. Stringer, MD, Colorado Springs Orthopaedic Group
- 9:30 am – 9:35 am Introduction of Howard Steel Lecture
Omer A. Ilahi, MD, Southwest Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute
- 9:35 am – 10:20 am Howard Steel Lecture
Crossing Barriers: Lessons from the Past on How to Overcome what Divides Us Today

Paul Moses, New York, NY

10:20 am – 10:40 am

Break – Please visit Exhibits

Symposium 2 – Sports Medicine

Moderator: David J. Mansfield, MD, *El Paso Orthopaedic Surgery Group*

10:40 am – 10:55 am

Anterolateral Complex of the Knee - Understanding the Evidence and Recent Trends

Andrew G. Geeslin, MD, Western Michigan University

10:55 am – 11:10 am

Pediatric, Adolescent ACL: Differences in Technique, Graft, and Augmentation to Avoid Complications in the Highest ACL Failure Risk Group

Kevin G. Shea, MD, Stanford Children's Clinic

11:10 am – 11:25 am

Is the Clock Face Analogy Truly of No Benefit for Femoral Tunnel Placement During ACL Reconstruction? Is there a Better Analogy?

Omer A. Ilahi, MD, Southwest Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute

11:25 am – 11:30 am

Discussion

11:30 am – 12:00 pm

Focused Lunch Presentation – Bioventus Global LIPUS and Fracture Healing

Mark D. Campbell, MD

*CME Credit Not Available

General Session 2 – OREF Update & WOF/OREF Young Investigator Awards

Moderators: David H. Chafey III, MD, *University of New Mexico*

David J. Mansfield, MD, *El Paso Orthopaedic Surgery Group*

12:00 pm – 12:05 pm

OREF Update

12:05 pm – 12:13 pm

101 - Implementing a Geriatric Fracture Program in a Pluralistic Environment

Carol Lin, MD, MA, Cedars-Sinai Medical Center

12:13 pm – 12:21 pm

133 - Mean Ten-Year Survivorship, Patient-Reported Outcomes and Satisfaction of a Fixed-Bearing Unicompartamental Knee Arthroplasty

Ryland Kagan, MD, Oregon Health & Science University

12:21 pm – 12:29 pm

434 - Females and Long Spinal Fusions Result in Total Hip Arthroplasty

*Zachary C. Lum, DO, University of California, Davis
Medical Center*

12:29 pm – 12:35 pm

Discussion

Concurrent Allied Health Session 1

Moderator: Theodore W. Coates, PA-C, *University of California, Davis*

12:40 pm – 1:40 pm

*Long Bone Fracture Management of the Lower Extremity
Ellen P. Fitzpatrick, MD, University of California, Davis*

Rapid Fire Session 2A – Trauma Tibia

Moderator: Bryon D. Hobby, MD, FAAOS, *Billings Clinic*
Michael Githens, MD, *University of Washington*

12:40 pm - 12:44 pm

274 - Soft Tissue Management in Open Tibial Shaft Fractures: A Comparison of Institutional Protocols
Matthew R. Garner, MD, University of Texas Health Science Center at Houston

12:44 pm - 12:48 pm

426 - Use of Balloon Osteoplasty for Reduction of Tibial Plateau Fractures
Stephanie Logterman, MD, Denver Health Medical Center

12:48 pm - 12:52 pm

179 - A Review of 11,000 Open Tibia Fractures over Four Decades
Stephen Warner, MD, PhD, University of Texas Health Science Center at Houston

12:52 pm - 12:56 pm

126 - Defining the Intramedullary Axis of the Distal Tibia using Computed Tomography
Haydn Roberts, MD, Banner University Medical Center

12:56 pm - 1:00 pm

261 - Predicting Reoperation and Quality of Life after Open Tibia Fractures
Patrick Albright, BS, MS, University of California, San Francisco

1:00 pm - 1:04 pm

150 - Quantification of Volumetric Articular Depression in Lateral Split/Depressed Tibial Plateau Fractures
Heba Ahmad, BS, University of Texas Health Science Center at Houston

1:04 pm - 1:10 pm

Discussion

- 1:10 pm - 1:14 pm 275 - The OTA-OFC as a Predictive Outcome Tool in Open Tibia Fractures
Matthew R. Garner, MD, University of Texas Health Science Center at Houston
- 1:14 pm - 1:18 pm 276 - Comparison of Outcomes following Open vs. Closed Patella Fractures
Jie Yao, MD, University of Washington
- 1:18 pm - 1:22 pm 452 - Mesh Plate as a Fixation Method for Patellar Fractures: A Report of Nine Cases
Ahmed Thabet, MD, Texas Tech University Health Sciences Center
- 1:22 pm - 1:26 pm 229 - Lower Extremity CT Angiograms and Nephropathy in Orthopedic Trauma Patients
Elise Britt, MD, University of California, San Diego Health
- 1:26 pm - 1:30 pm 202 - Inadequate Soft-Tissue Coverage following Open Tibia Fractures in Tanzania
Jordan T. Holler, BS, University of California, San Francisco
- 1:30 pm - 1:34 pm 227 - Treatment of Tibial Plateau Fractures with a Novel Fenestrated Screw
Alexander Telis, MD, University of Southern California
- 1:34 pm - 1:40 pm Discussion

Rapid Fire Session 2B – Total Joint

Moderator: Jay R. Lieberman, MD, *Keck School of Medicine of the University of Southern California*
Parminder S. Kang, MD, *Desert Orthopaedic Center*

- 12:40 pm - 12:44 pm 355 - Toxic Noise Levels during Total Joint Arthroplasty Surgery
Brandon A. Romero, MD, University of Nevada Las Vegas
- 12:44 pm - 12:48 pm 19 - Sources Of Contamination in the Operating Room: A Fluorescent Particle Powder Study
Holt Cutler, MD, University of Texas Southwestern Medical Center
- 12:48 pm - 12:52 pm 22 - Complications of Total Joint Arthroplasty in Liver Disease Patients
Eric G. Kim, MD, University of California, Davis

- 12:52 pm - 12:56 pm 50 - Immunologic Status Does Not Predict the Risk of Periprosthetic Infection in Patients Infected with Human Immunodeficiency Virus Undergoing Total Hip Arthroplasty
Phillip H. Behrens IV, MD, Cedars-Sinai Medical Center
- 12:56 pm - 1:00 pm 52 - Evolution of Two-Stage to One-Stage Treatment of PJI: the First 500 Cases
Gerhard E. Maale III, MD, Dallas Ft. Worth Sarcoma Group/Medical City Plano
- 1:00 pm - 1:04 pm 396 - Cannabis Use Among Patients Undergoing Total Joint Arthroplasty Has Increased
Sahitya K. Denduluri, MD, Stanford Orthopaedic Surgery
- 1:04 pm - 1:10 pm Discussion
- 1:10 pm - 1:14 pm 302 - Investigating Repeated Intra-Articular Injections of The Anti-Inflammatory Compound LMWF-5A In Adults with Severe Osteoarthritis: An Open-Label Extension Study
John Schwappach, MD, Denver Metro Orthopedics, PC
- 1:14 pm - 1:18 pm 87 - Staged Bilateral Total Shoulder Arthroplasty: A Systematic Review of Clinical Outcomes
John-Rudolph Smith, BS, University of Colorado Sports Medicine
- 1:18 pm - 1:22 pm 249 - Quantifying Patient Encounters in Arthroplasty During the Global Period
Malcolm DeBaun, MD, Stanford University Department of Orthopaedic Surgery
- 1:22 pm - 1:26 pm 323 - A Qualitative Comparison of Shoulder Arthroplasty to Lower Extremity Arthroplasty
Alexandra Schumacher, MS, University of Colorado Sports Medicine
- 1:26 pm - 1:30 pm 325 - A Qualitative Comparison on the Effect of Arthroplasty Operation Order
Alexandra Schumacher, MS, University of Colorado Sports Medicine
- 1:30 pm - 1:34 pm 379 - Meeting Patient Expectations after TJA: Do We Live Up to the Hype?

Adam A. Sassoon, MD, University of California, Los Angeles

1:34 pm - 1:40 pm

Discussion

Rapid Fire Session 2C – Sports Medicine

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

Richard A. Marder, MD, *UC Davis School of Medicine*

12:40 pm - 12:44 pm

188 - Resident Involvement in Sports Medicine Surgeries
Kent C. Doan, MD, University of Colorado

12:44 pm - 12:48 pm

322 - Comparative Effectiveness of Treatment Options for Displaced Midshaft Clavicle Fractures: A Systematic Review and Network Meta-Analysis
John R. Martin, MD, University of Arizona, Phoenix
**Presented by Richard Auran, MD*

12:48 pm - 12:52 pm

339 -Playing Surface Effects Anterior Cruciate Ligament Injury In NCAA Soccer
Samantha Solaru, BS, University of Southern California

12:52 pm - 12:56 pm

352 - Direct and Indirect Savings with use of In-Office Diagnostic Arthroscopy
Omar Ramos, MD, Loma Linda University Medical Center

12:56 pm - 1:00 pm

9 - Orthopaedic Sleep and Novel Analgesic Pathway for Shoulder Arthroplasty Recovery
Jonathan Cheah, MD, University of California, San Francisco

1:00 pm - 1:04 pm

147 - All Soft-Tissue Quadriceps Graft for Anterior Cruciate Ligament Reconstruction
Mitchell Stroh, DO, Hoag Orthopedic Institute

1:04 pm - 1:10 pm

Discussion

1:10 pm - 1:14 pm

286 - Hypovitaminosis D is Not a Risk Factor for Stress Fracture in NCAA Division I Track and Field
Adam Lindsay, MD, University of Southern California

1:14 pm - 1:18 pm

290 - A Comparison of Collegiate Women's Court and Beach Volleyball Injury Data: A Three-Year Retrospective Analysis
Tristan Juhan, MD, MA, University of Southern California
**Presented by Andrew Homere, MS3*

- 1:18 pm - 1:22 pm 313 - Injections and Ultrasound Imaging in Orthopedics: Medicare Trends in Reimbursement from 2000-2019
Cory K. Mayfield, BS, Keck School of Medicine of the University of Southern California
- 1:22 pm - 1:26 pm 186 - Surfing Injuries - A Review for the Orthopaedic Surgeon
Ryan J. Bickley, MD, Tripler Army Medical Center
- 1:26 pm - 1:30 pm 231 - Assessment of Cartilage Growth after Biopsy of Osteochondral Loose Bodies
Sean Robinson, MD, St. Mary's Medical Center
- 1:30 pm - 1:34 pm 234 - When is a Hill-Sachs Lesion Too Large for Remplissage? The Relationship Between Humeral Head Size and Infraspinatus Tendon Length
Thomas Kremen, MD, David Geffen School of Medicine at UCLA
- 1:34 pm - 1:40 pm Discussion

Rapid Fire Session 2D – Shoulder & Elbow

Moderator: T. Bradley Edwards, MD, *Fondren Orthopedic Group LLP*
Omer A. Ilahi, MD, *Southwest Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute*

- 12:40 pm - 12:44 pm 391 - The Effect of Tranexamic Acid on Early Postoperative Pain and Opiate Consumption after Total Shoulder Arthroplasty
Pengcheng Wang, UCLA Medical Center Program
- 12:44 pm - 12:48 pm 148 - Outcomes after Shoulder Surgery: Legacy Score vs. PROMIS Function Score
Todd S. Kim, MD, Palo Alto Medical Foundation
- 12:48 pm - 12:52 pm 390 - Low BMI Predicts Inferior Outcomes after Reverse Total Shoulder Arthroplasty
Edward J. Wu, MD, Stanford University Department of Orthopaedic Surgery
- 12:52 pm - 12:56 pm 408 - Analysis of 164 Patients with Unsatisfactory Results after Failed Rotator Cuff Repair
Sagar S. Chawla, MD, University of Washington

- 12:56 pm - 1:00 pm 450 - Radial Neck Diameter as a Guide for Prosthetic Stem Sizing
Dave Shukla, MD, Mayo Clinic
- 1:00 pm - 1:04 pm 327 - Pre-Operative Corticosteroid Injections are Associated with Shoulder Arthroscopy Infectious Outcomes
Sarah Bhattacharjee, Pritzker School of Medicine at the University of Chicago
- 1:04 pm - 1:10 pm Discussion
- 1:10 pm - 1:14 pm 421 - Radiographic Changes in the Acromiohumeral Distance through the Sagittal Plane
Craig T. Gillis, DO, Buffalo, NY
- 1:14 pm - 1:18 pm 357 - Effects of Age on Postoperative Complications following Shoulder Arthroplasty
Hasani W. Swindell, MD, University of Southern California
- 1:18 pm - 1:22 pm 124 - Biomechanical Assessment of Patella Tendon Allograft as Alternative Graft Material for Superior Capsule Reconstruction
William Croom, MD, MBA, Kaiser Permanente
- 1:22 pm - 1:26 pm 137 - Stemless Shoulder Arthroplasty: Review of Short and Medium-Term Results
Nicholas P. Satariano, MD, University of California, San Francisco
- 1:26 pm - 1:30 pm 311 - Clinical Results of Subpectoral Biceps Tenodesis using a Single Unicortical Anchor
Taylor D. Mansfield, MD, Madigan Army Medical Center
- 1:30 pm - 1:34 pm 331 - Sleep Quality following Rotator Cuff Repair: A Systematic Review
Andres F. Barandiaran, University of Colorado
- 1:34 pm - 1:40 pm Discussion
- Rapid Fire Session 2E – Spine**
Moderator: Evalina Burger, MD, *University of Colorado*
Yu-Po Lee, MD, *University of California, Irvine*
- 12:40 pm - 12:44 pm 454 - Costs and Utility of Post-Discharge Rehabilitation following Spinal Deformity Surgery

Alexander A. Theologis, MD, University of California, San Franci

- 12:44 pm - 12:48 pm 256 - ALIF Provides More Decompression of the Foraminal Space than Foraminotomy
Khalid Odeh, MD, St. Mary's Medical Center, San Francisco
- 12:48 pm - 12:52 pm 201 - Vertebral Fracture After T10-L5 Fusion, Case Series and Literature Review
David W. Cheng, Bones and Spine Surgery Inc.
- 12:52 pm - 12:56 pm 449 - Thoracoplasty Effects on Postoperative Recovery in Adolescent Idiopathic Scoliosis
Benjamin J. Sherman, DO, Children's Hospital of Orange County
- 12:56 pm - 1:00 pm 315 - An Analysis of Medicare Reimbursement Rates in Spine Surgery: 2000-2018
Cory K. Mayfield, BS, Keck School of Medicine of the University of Southern California
- 1:00 pm - 1:04 pm 342 - Fenestrated Pedicle Screw Cement Augmentation: A Safety and Efficacy Study
Ruwan Ratnayake, MD, University of California, Davis Medical Center
**Presented by Houssam Bouloussa, MD, MS*
- 1:04 pm - 1:10 pm Discussion
- 1:10 pm - 1:14 pm 174 - The Utility of Flexion/Extension Radiographs in Degenerative Cervical Spondylolisthesis
Andrew P. Alvarez, MD, University of California, Irvine
- 1:14 pm - 1:18 pm 306 - Inpatient Episodes of Care in Spine Surgery: Medicare Reimbursement Rates
Jordan Dutcher, Mayo Clinic School of Medicine
- 1:18 pm - 1:22 pm 397 - Dissimilar Rod-Screw Metal Constructs Do Not Affect Complications in Deformity Surgery
Sahitya K. Denduluri, MD, Stanford Orthopaedic Surgery
- 1:22 pm - 1:26 pm 104 - Initial Management of Sacral Insufficiency Fractures: A Systematic Review
Pierce Johnson, MD, University of Arizona Phoenix
**Presented by Richard Auran, MD*

1:26 pm - 1:30 pm	73 - Pre-Operative Hemoglobin: A Predictor for Mobilization and Length of Stay <i>Ali Noorzad, MD, Cedars-Sinai Medical Center</i>
1:30 pm - 1:34 pm	172 - Defining the Association between Sacral Dysmorphism and Hip Dysplasia <i>Elizabeth Gausden, MD, University of Texas Health Science Center at Houston</i>
1:34 pm - 1:40 pm	Discussion
1:40 pm – 2:40 pm	Scientific Poster & E-Poster Sessions
2:40 pm – 3:40 pm	Multimedia Education Session

Friday, August 2

5:45 am – 6:55 am	Scientific Poster & E-Poster Sessions
6:55 am – 7:00 am	Announcements <i>David H. Chafey III, MD, Program Co-Chair</i> <i>David J. Mansfield, MD, Program Co-Chair</i>

Symposium 3 – Tumor

Moderator: David H. Chafey III, MD, *University of New Mexico*

7:00 am – 7:15 am	Tips and Tricks for Managing Soft Tissue Masses <i>Kristy L. Weber, MD, University of Pennsylvania</i>
7:15 am – 7:30 am	The Lytic Lesion of Bone in Adults <i>Valerae O. Lewis, MD, MD Anderson Cancer Center</i>
7:30 am – 7:45 am	Pediatric Bone Cysts: Know Your ABCs and UBCs <i>Nicole I. Montgomery, MD, Texas Children's Hospital</i>
7:45 am – 7:50 am	Discussion
7:50 am – 8:20 am	Focused Brunch Presentation – Convatec *CME Credit Not Available
8:20 am – 8:40 am	<i>Break – Please visit Exhibits</i>

Rapid Fire Session 3A – Trauma Traffic & Thrombosis

Moderator: Tony Pedri, MD, *Regions Trauma Center*

Ahmed Thabet, MD, *Texas Tech University Health Sciences Center*

- 8:40 am - 8:44 am 114 - Comparison of Injuries Among Motorcycle, Moped and Bicycle Traffic Accident Victims
Tyler Kent, MD, University of Nevada Las Vegas
- 8:44 am - 8:48 am 250 - Electric Scooter Orthopaedic Injuries at a Level 1 Trauma Center
Ophelie Lavoie-Gagne, University of California, San Diego
- 8:48 am - 8:52 am 252 - Electric Scooter Orthopaedic Injuries Have Significant Financial Implications
Matthew Y. Siow, MD, University of California, San Diego
- 8:52 am - 8:56 am 281 - Electric Scooters: A New Wave in Orthopaedic Trauma
Ali Noorzad, MD, Cedars-Sinai Medical Center
- 8:56 am - 9:00 am Discussion
- 9:00 am - 9:04 am 367 - An Analysis of Medicare Reimbursement Rates in Orthopaedic Trauma: 2000-2018
Cory K. Mayfield, BS, Keck School of Medicine of the University of Southern California
- 9:04 am - 9:08 am 447 - What Makes a Strong Orthopaedic Trauma Fellowship Application: A Program Director's Perspective
Kareem Shaath, MD, University of Texas Health Science Center
- 9:08 am - 9:12 am 199 - Targeted Dosing of LMWH Does Not Reduce Thrombosis in Orthopaedic Trauma
Carol Lin, MD, MA, Cedars-Sinai Medical Center
- 9:12 am - 9:16 am 208 - The Incidence of DVT in Orthopedic Trauma
Hyunwoo P. Kang, MD, University of Southern California
- 9:16 am - 9:20 am Discussion

Rapid Fire Session 3B – Sports Medicine

Moderator: Robert C. Schenck Jr., MD, *University Of New Mexico*
Chris Kweon, MD, *University of Washington*

- 8:40 am - 8:44 am 383 - Sliding or Non-Sliding Arthroscopic Knots for Shoulder Procedures: A Systematic Review of Clinical Outcomes
Caellagh D. Morrissey, BA, University of Colorado Sports Medicine
- 8:44 am - 8:48 am 141 - All-Inside Repair of Bucket-Handle Meniscus Tears: A Systematic Review
Carolyn Ardizzone, University of Colorado Sports Medicine
- 8:48 am - 8:52 am 318 - Anterior Cruciate Ligament Reconstruction Outcomes in Skiers Compared to Non-Skiers
Alexandra Schumacher, MS, University of Colorado Sports Medicine
- 8:52 am - 8:56 am 125 - Bone Graft Options for Tunnel Augmentation in Revision ACL Reconstruction
Hytham S. Salem, MD, University of Colorado, Denver
- 8:56 am - 9:00 am Discussion
- 9:00 am - 9:04 am 144 - Natural History of Subacromial Shoulder Pain: Analysis of 474 Cases
John H. Thayer, MBS, University of Washington School of Medicine
- 9:04 am - 9:08 am 173 - Radiographic Assessment of Femoral Tunnel Ossification in ACL Reconstruction
Ali A. Qadeer, MD, Baylor College of Medicine
- 9:08 am - 9:12 am 84 – Pre-Operative Determination of Adequate Graft Diameter for Hamstring ACL Reconstruction
Trevor J. Shelton, MD, University of California, Davis
- 9:12 am - 9:16 am 458 - Surgical Trends in Meniscal Tears: Analysis of ABOS Certification Data.
Jory Wasserburger, MD, Albuquerque, NM
- 9:16 am - 9:20 am Discussion

Rapid Fire Session 3C – Shoulder & Elbow

Moderator: Deana Mercer, MD, *University Of New Mexico*
Ronald A. Navarro, MD, *Kaiser Permanente*

- 8:40 am - 8:44 am 25 - Cutibacterium Acnes Cultures are Rarely Positive in Shoulders Undergoing Primary Arthroplasty
Dave Shukla, MD, Mayo Clinic
- 8:44 am - 8:48 am 192 - Comparison of MRI Utilization: Diagnosis and Treatment of the Elbow
Brett A. Schiffman, MD, University of Washington
- 8:48 am - 8:52 am 307 - Analysis of Glenohumeral Joint Intraarticular Pressure Measurements in Volume-Limited MR Arthrograms in Patients with Shoulder Instability Compared to a Control Group
Zachary L. McBeth, MD, Madigan Army Medical Center
- 8:52 am - 8:56 am 332 - The Relationship between “Grit” and Clinical Outcomes following Rotator-Cuff Repair
Andres F. Barandiaran, University of Colorado
- 8:56 am - 9:00 am Discussion
- 9:00 am - 9:04 am 27 - Trends in Peripheral Nerve Blocks in Arthroscopic Rotator Cuff Repairs
Abhinav K. Sharma, BS, David Geffen School of Medicine at UCLA
- 9:04 am - 9:08 am 53 - Sex-Based Review of Recurrence Rates following Arthroscopic Anterior Shoulder Stabilization
Connor Cannizzaro, University of Colorado Sports Medicine
- 9:08 am - 9:12 am 129 - Anterior Capsule Reconstruction vs. Pectoralis Major Transfer for Irreparable Subscapularis Tears
Gregory Adamson, Orthopaedic Biomechanics Laboratory, Congress Medical Foundation
- 9:12 am - 9:16 am 77 - The Effect of Hook Plate with Augmented Fixation on High Energy Shoulder Girdle Injuries
Wesley Doshier, MD, University of Texas Health Science Center At Houston
- 9:16 am - 9:20 am Discussion

Rapid Fire Session 3D – Foot & Ankle

Moderator: David H. Chafey III, MD, *University of New Mexico*
Blake Schultz, MD, *Stanford University*

- 8:40 am - 8:44 am 28 - Lesser Metatarsophalangeal Interpositional Arthroplasty with Semitendinosus Allograft: Outcomes and Technique
Eugene F. Stautberg III, MD, Southwest Orthopedic Group
- 8:44 am - 8:48 am 43 - Ligamentous Lisfranc: Biomechanical Properties of Internal Brace, Suture Button, and Screw
Trevor J. Shelton, MD, University of California, Davis
- 8:48 am - 8:52 am 220 - Contemporary Comparison of Short-Term Outcomes after Total Ankle Replacement and Ankle Arthrodesis
Stephen B. Wallace, MD, University of Texas Southwestern
- 8:52 am - 8:56 am 167 - Patient-Reported Outcomes after use of Dynamic Bracing in the Civilian Population
Ryan Hadden, MD, Oregon Health and Science University
- 8:56 am - 9:00 am Discussion
- 9:00 am - 9:04 am 235 - Outcomes and Complications of Supination-Adduction (AO/OTA 44A2.3) Ankle Fractures
Ram K. Alluri, MD, Keck Medical Center of USC
- 9:04 am - 9:08 am 443 - Sural Fasciocutaneous Flaps for Ortho-Geriatric Patients
Haydn Roberts, MD, Banner University Medical Center
- 9:08 am - 9:12 am 178 - Tricortical Kirschner Wire vs. Screw Fixation for Distal Chevron Osteotomy
Natalie R. Black, BS, University of Texas Medical Branch at Galveston
- 9:12 am - 9:16 am 181 - Provisional Reduction and Percutaneous Pinning of Traumatic Foot Injuries
Justin A. Rennard, MD, University of Texas Health Science Center at Houston
- 9:16 am - 9:20 am Discussion

Rapid Fire Session 3E – Pharmacology: The Good, Bad and the Opioids

Moderator: Jeffrey E. Krygier, MD, *Santa Clara Valley Medical Center*
Amalia M. De Comas, MD, *The CORE Institute*

- 8:40 am - 8:44 am 122 - Human Skeletal Stem Cells from Acute Fractures Maintain Self-Renewal and Differentiation Independent of Non-Steroidal Anti-Inflammatory Drugs (NSAID)

Lawrence H. Goodnough, MD, Stanford University

- 8:44 am - 8:48 am 200 - Acute Postoperative Multimodal Pain Management and Long-Term Opioid Use
Carol Lin, MD, MA, Cedars-Sinai Medical Center
- 8:48 am - 8:52 am 97 - Standardized Pain Regimen in Orthopedic Trauma Patients Reduces Opioid Use
Carol Lin, MD, MA, Cedars-Sinai Medical Center
- 8:52 am - 8:56 am 226 - Outcomes and Complications Among Methamphetamine Users in Orthopaedic Trauma
Nicholas A. Trasolini, MD, University of Southern California
- 8:56 am - 9:00 am Discussion
- 9:00 am - 9:04 am 190 - High Variability in Opioid Prescribing Following Fracture Fixation
Andrew Fithian, MD, Stanford University
- 9:04 am - 9:08 am 224 - Methamphetamine Use and Postoperative Narcotic Use in Orthopedic Trauma Patients
Adam Lindsay, MD, University of Southern California
- 9:08 am - 9:12 am 258 - Perioperative Complication Rates amongst Methamphetamine Positive Orthopaedic Trauma Patients
Malcolm DeBaun, MD, Stanford University
- 9:12 am - 9:16 am 207 - Complication Rates and Reimbursements in Hip Fracture Patients Using DMARDs
Mary Kate Erdman, MD, University of Southern California
- 9:16 am - 9:20 am Discussion

General Session 3 – AAOS Report & Presidential Guest Speaker

Moderator: Omer A. Ilahi, MD, *Southwest Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute*

- 9:25 am – 9:40 am AAOS Report
Kristy L. Weber, MD, President, AAOS, University of Pennsylvania
- 9:40 am – 9:45 am Introduction of Presidential Guest Speaker
Omer A. Ilahi, MD, Southwest Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute

9:45 am – 10:25 am Presidential Guest Speaker
The Burden of Craft and the Blessing of Craftsmanship
Stephen S. Burkhart, MD, The San Antonio Orthopaedic Group

10:25 am – 10:45 am Break – Please visit Exhibits

Symposium 4 – Hip/Knee

Moderator: Parminder S. Kang, MD, *Desert Orthopaedic Center*

10:45 am – 11:00 am Management of Peri-Prosthetic Fractures of the Femur:
Don't Gamble on the Stem
Parminder S. Kang, MD, Desert Orthopaedic Center

11:00 am – 11:15 am Diagnosis and Treatment of Total Joint Infections
Michael D. Ries, MD, Reno Orthopedic Clinic

11:15 am – 11:30 am The Painful Knee after Arthroplasty: Prevention and
Approach
Russell T. Nevins, MD, Nevada Orthopaedic & Spine Center

11:30 am – 11:35 am Discussion

11:35 am – 12:05 pm **Focused Lunch Presentation – Flexion Therapeutics**
Localized Treatment for Osteoarthritis Knee Pain with a
Novel Intra-Articular Formulation
Kevin Murphy, MD
*CME Credit Not Available

General Session 4 – WOF Report & Western Orthopaedic Foundation Donor Awards

Moderator: Robert R. Slater, Jr., MD, *Folsom, CA*

12:05 pm – 12:15 pm WOF Report

12:15 pm – 12:21 pm **Basil R. Besh, MD Donor Award**
419 - High Resiliency Improves Patient-Reported
Outcomes following Knee Surgery in Active-Duty Patients
Nicholas J. Drayer, MD, Madigan Army Medical Center

12:21 pm – 12:27 pm **Nitin N. Bhatia, MD Donor Award**
373 - Two-Week Postoperative Radiographs after Ankle
ORIF Have Low Utility
Hyunwoo P. Kang, MD, University of Southern California

- 12:27 pm – 12:33 pm **David H. Chafey III, MD Donor Award**
157 - Infraspinus Tenotomy Improves Glenoid Visualization with the Modified Judet Approach
John Garlich, MD, Cedars-Sinai Orthopaedic Surgery
- 12:33 pm – 12:39 pm **Omer A. Ilahi, MD Donor Award**
381 - Supporting Orthopedic Resident Education and Advancement in Leadership Skills
Jonathan Cheah, MD, University of California, San Francisco
**Presented by Sachin Allahabadi, MD*
- 12:39 pm – 12:45 pm **Brian A. Jewett, MD Donor Award**
309 - Overprescribing of Opioids in Orthopaedic Surgery
Taylor D. Mansfield, MD, Madigan Army Medical Center
- 12:45 pm – 12:51 pm **Jeffrey E. Krygier, MD Donor Award**
403 - Newer NCAA Bat Standard is Associated with Hamate Fractures
Trevor J. Shelton, MD, University of California, Davis
- 12:51 pm – 12:57 pm **Jeffrey M. Nakano, MD Donor Award**
166 - Current Trends: Surgical Treatment of Syndesmotic Injuries in Elite Athletes
Rebecca Griffith, MD, University of Colorado Denver School of Medicine
- 12:57 pm – 1:03 pm **Robert R. Slater Jr., MD Donor Award**
407 - Improved Fracture Reduction in Patients Undergoing Early Definitive Fixation for Tibial Plateau Fractures with Acute Compartment Syndrome
Tony Pedri, MD, Regions Trauma Center
- 1:03 pm – 1:10 pm Discussion

Concurrent Allied Health Session 2

Moderator: Theodore W. Coates, PA-C, *University of California, Davis*

1:15 pm – 2:15 pm **Initial Management of the Spine Patient**
Adam M. Wegner, MD, Washington University, St. Louis

Rapid Fire Session 4A – Trauma Pelvis & Acetabulum

Moderator: Ronald W. Lindsey, MD, *The University of Texas Medical Branch*
Carol Lin, MD, MA, *Cedars-Sinai Medical Center*

- 1:15 pm - 1:19 pm 216 - Expert Agreement on the Outcome of Pelvic Exam Under Anesthesia
Geoffrey S. Marecek, MD, University of Southern California
- 1:19 pm - 1:23 pm 143 - Visualizing Anterior Pelvis Bone Strength to Optimize Screw Fixation
Jerad D. Allen, MD, Harborview Medical Center
- 1:23 pm - 1:27 pm 145 - Novel Method to Visualize Pelvic Bone Strength for Surgical Planning
Jerad D. Allen, MD, Harborview Medical Center
- 1:27 pm - 1:31 pm 294 - Evaluation of Functional and Psychological Outcomes in Patients with Severe Pelvic Ring Fractures
Murphy P. Martin, MD, Denver Health Medical Center
**Presented by Chase Dean, MD*
- 1:31 pm - 1:35 pm 297 - Occult Injuries of the Contralateral SI Joint in Operatively Treated Pelvis Fractures: Incidence
Andrew S. Maertens, MD, University of Colorado
- 1:35 pm - 1:39 pm 292 - Complications Associated with Early vs. Delayed Fixation of Pelvic Ring Injuries
David Rojas, MD, Denver Health Medical Center
- 1:39 pm - 1:45 pm Discussion
- 1:45 pm - 1:49 pm 55 - Posterior Pelvic Ring Bone Density: Implications for Third Sacral Segment
Jonathan G. Eastman, MD, University of California, Davis
- 1:49 pm - 1:53 pm 204 - A Biomechanical Study Comparing Compressive Strength of Fully-Threaded vs. Partially Threaded Cannulated Transiliac-Transsacral Lag Screws for Posterior Pelvic Ring Stabilization.
Andrew S. Maertens, MD, University of Colorado
- 1:53 pm - 1:57 pm 237 - Obesity Is Not a Risk Factor for Complications Following Acetabular Fracture Surgery: A Comparative Cohort Study
Kareem Shaath, MD, University of Texas Health Science Center
- 1:57 pm - 2:01 pm 219 – Low-Dose CT for Assessment of Acetabular Fracture Reduction

Stephen Gibbs, MD, University of Southern California

2:01 pm - 2:05 pm 94 - The Hybrid Suite and Intraileiac Balloon Occlusion for Acetabular Open Reduction Internal Fixation
Jason Davis, MD, University of California, San Francisco

2:05 pm - 2:09 pm 404 - Financial Impact of the ACA on an Orthopedic Trauma Service
Trevor J. Shelton, MD, University of California, Davis

2:09 pm - 2:15 pm Discussion

Rapid Fire Session 4B – Tumors & Pediatrics

Moderator: Nicole I. Montgomery, MD, *Texas Children's Hospital*
 Selina Poon, MD, *Shriners for Children Medical Center, Pasadena*

1:15 pm - 1:19 pm 264 - CD44 and ALDH1 Predict Oncologic Outcomes in Osteosarcoma
Augustine M. Saiz Jr., MD, University of California, Davis

1:19 pm - 1:23 pm 160 - Natural History of Enchondroma Referrals at a Comprehensive Cancer Center
Alysia K. Kemp, MD, The University of Texas MD Anderson Cancer Center

1:23 pm - 1:27 pm 163 - Acrometastasis: Is Lung Carcinoma Still the Most Common Primary Lesion?
Alysia K. Kemp, MD, The University of Texas MD Anderson Cancer Center

1:27 pm - 1:31 pm 362 - Patellar Tendon Augmentation Not Necessary in Proximal Tibia Endoprosthesis Reconstruction
Russell Stitzlein, MD, University of California, Irvine

1:31 pm - 1:35 pm 120 - Prospective Study of Percutaneous Bone-Anchored Implants in Patients with Above Knee Amputation: the UCSF Experience
Musa Zaid, MD, University of California, San Francisco

1:35 pm - 1:39 pm 366 - Vertebra Plana Caused by CRMO: A Case Series in Pediatric Patients
Jesse Roberts, MD, University of Colorado

1:39 pm - 1:45 pm Discussion

- 1:45 pm - 1:49 pm 439 - Utility of Bioabsorbable Fixation of Osteochondral Lesions in the Adolescent Knee; Outcomes Analysis With Minimum Two-Year Follow-Up
Shawn Nguyen, DO, Children's Hospital of Orange County
- 1:49 pm - 1:53 pm 47 - Secondary Surgeries Following Major Lower Extremity Amputations in the Pediatric Population
Christopher Joyce, MD, University of Colorado
- 1:53 pm - 1:57 pm 177 - Validation of a Novel Method for Measuring Proximal Ulnar Alignment in the Pediatric Patient
Megan H.M. Kuba, MD, Kaiser Permanente Orange County
- 1:57 pm - 2:01 pm 304 - Percutaneous Hip Adductor Release for Cerebral Palsy: Adolescents and Adults
David A. Yngve, MD, The University of Texas Medical Branch
- 2:01 pm - 2:05 pm 314 - Distinctive Opiate Prescription Patterns in Adolescent Subpopulations following ACL Reconstruction
Charles M. Chan, MD, Stanford University
**Presented by Alexander Karius, BS*
- 2:05 pm - 2:09 pm 453 - Aseptic Nonunion in Long Bones among Pediatric Patients: A Report of 13 Cases
Ahmed Thabet, MD, Texas Tech University Health Sciences Center
- 2:09 pm - 2:15 pm Discussion

Rapid Fire Session 4C – Sports Medicine

Moderator: COL (Ret) Edward D. Arrington, MD, *Madigan Army Medical Center*
Michael G. Klassen, MD, *Premier Physicians Management Company*

- 1:15 pm - 1:19 pm 291 – Two-Year Revision ACL Reconstruction: Age-Based Risk Factors
Matthew C. Gallo, BA, University of Southern California
- 1:19 pm - 1:23 pm 456 - Interfacial Shear Mechanical Properties of Commercially Available Osteochondral Allografts
Dean Wang, MD, University of California, Irvine
- 1:23 pm - 1:27 pm 80 - When Do Patients Improve after Hip Arthroscopy For Femoroacetabular Impingement? A Prospective Cohort Analysis

Alan Zhang, MD, UCSF Medical Center

- 1:27 pm - 1:31 pm 308 - Patellar Height Comparison between Knees in Adolescents and Young Adults
Benjamin Albertson, MD, University of New Mexico
- 1:31 pm - 1:35 pm 121 - The Effect of ACL Graft Choice On Meniscal Repair Success
Hytham S. Salem, MD, University of Colorado, Denver
- 1:35 pm - 1:39 pm 239 - How Accurate are Radiographic Landmarks at Predicting the Location of Lateral Knee Structures?
Thomas Kremen, MD, David Geffen School of Medicine at UCLA
- 1:39 pm - 1:45 pm Discussion
- 1:45 pm - 1:49 pm 110 - Long-Term Risk of Osteoarthritis After Allograft or Autograft ACL Reconstruction
Peter Chebi, SOAR Medical
- 1:49 pm - 1:53 pm 38 - Handedness Affects Resident Upper Extremity Motion Patterns during Arthroscopic Simulation
Joseph G. O'Sullivan, Oregon Health and Science University
- 1:53 pm - 1:57 pm 81 - Air Arthrogram Aids Joint Distraction for Hip Arthroscopy and Decreases Acute Postoperative Pain
Alan Zhang, MD, University of California, San Francisco Medical Center
- 1:57 pm - 2:01 pm 93 - Return to Sport following Medial Patellofemoral Ligament Reconstruction
Darby A. Houck, BA, University of Colorado Sports Medicine
- 2:01 pm - 2:05 pm 95 - Does Workflow Influence Component Placement Accuracy to Plan for PKA?
Emily Hampp, MD, Mahwah, NJ
**Presented by Shon Darcy*
- 2:05 pm - 2:09 pm 96 - The Impact of Workflow on Cutting Time for Partial Knee Arthroplasty
Emily Hampp, MD, Mahwah, NJ
**Presented by Shon Darcy*

2:09 pm - 2:15 pm Discussion

Rapid Fire Session 4D – Total Knee

Moderator: Jennifer M. van Warmerdam, MD, *St. Mary's Medical Center Total Joint Center*
Michael D. Ries, MD, *Reno Orthopedic Clinic*

- 1:15 pm - 1:19 pm 400 - Utility of Medial-to-Total Force Ratio in Kinematically Aligned TKA
Trevor J. Shelton, MD, University of California, Davis
- 1:19 pm - 1:23 pm 405 - Counseling Patients with Mechanically Aligned TKA Undergoing Kinematically Aligned TKA
Trevor J. Shelton, MD, University of California, Davis
- 1:23 pm - 1:27 pm 437 - Joint Replacement in X-Linked Hypophosphatemia
Emily S. Mills, BS, Frank H. Netter MD School of Medicine at Quinnipiac University
- 1:27 pm - 1:31 pm 328 - Defining a Safe Interval between Pre-Operative Corticosteroid Injections and TKA's
Sarah Bhattacharjee, Pritzker School of Medicine at the University of Chicago
- 1:31 pm - 1:35 pm 66 - Predictors of Complications after TKA In Patients with a Prior Arthroscopy
Geoffrey Rohlfing, MD, University of California, San Francisco
- 1:35 pm - 1:39 pm 67 - Influence of Prior Arthroscopy on Revision TKA Complications and Readmissions
Kamran Movassaghi, MD, University of California, San Francisco
- 1:39 pm - 1:45 pm Discussion
- 1:45 pm - 1:49 pm 98 - Periprosthetic Tissue Reaction Independent of LTT Result and Implanted Materials in TKA
Brian Schneiderman, MD, Harbor UCLA Medical Center
- 1:49 pm - 1:53 pm 171 - Initial/Repeat Triamcinolone Acetonide Extended-Release in Patients With Prior Intra-Articular Corticosteroids
Andrew I. Spitzer, MD, Cedars-Sinai Orthopaedic Center
- 1:53 pm - 1:57 pm 435 - Outcomes of Kinematic, Gap Balancing and Measured Resection Total Knee

*Zachary C. Lum, DO, University of California, Davis
Medical Center*

- 1:57 pm - 2:01 pm 197 – Pre-Operative Vitamin D Repletion in Total Knee Arthroplasty: A Preliminary Cost-Effectiveness Model
Armin Arshi, MD, David Geffen School of Medicine at UCLA
- 2:01 pm - 2:05 pm 424 - The Femoral Condyles Are Not Parallel in Coronal Plane; What is the Significance? A Radiographic and Computational Study
Mahdie Kerdari, MD, Rowan University
- 2:05 pm - 2:09 pm 432 - To Evaluate The Efficacy and Safety of Buprenorphine 5 mg Patch in the Immediate Postoperative Pain Relief following Total Knee Replacement
Sanjay B. Londhe, MS FRCS FRCSI MCh (Orth), Holy Spirit Hospital
- 2:09 pm - 2:15 pm Discussion

Rapid Fire Session 4E – Total Hip

Moderator: Kathryn L. Schabel, MD, *Oregon Health & Science University*
William J. Maloney, MD, *Stanford University School of Medicine*

- 1:15 pm - 1:19 pm 310 - Comparing Different Hip Physical Examination Methods on the Diagnosis of Labral Tear
Farshad Adib, University of Maryland Orthopaedic Associates
- 1:19 pm - 1:23 pm 349 - Direct Anterior Approach Total Hip Arthroplasty without Pre-Operative Templating - Challenging the Dogma of Pre-Operative Templating
Ian Hasegawa, MD, University of Hawaii
- 1:23 pm - 1:27 pm 100 - Determining and Achieving Target Limb Length and Offset in Total Hip Arthroplasty using Intra-Operative Digital Radiography
Eytan M. Debbi, MD, PhD, Cedars-Sinai Medical Center
- 1:27 pm - 1:31 pm 215 - Is there a Relationship between Severity of Hip Dysplasia and Patient Reported Pain?
Shawn O. Okpara, BS, University of Texas Southwestern Medical Center

1:31 pm - 1:35 pm	217 - Total Hip Arthroplasty for Osteoarthritis Secondary to Operatively Treated Acetabular Fractures; A Retrospective Analytic Study <i>Samer Kakish, MD, University of New Mexico</i>
1:35 pm - 1:39 pm	223 - Patient-Reported Return to Driving following Outpatient Total Hip Arthroplasty <i>Anne R. Wright, MD, University of Hawaii</i>
1:39 pm - 1:45 pm	Discussion
1:45 pm - 1:49 pm	32 - THA Outcomes in Adult Patients with Developmental Dysplasia of the Hip <i>Peter P. Hsiue, MD, University of California, Los Angeles</i>
1:49 pm - 1:53 pm	127 - Reduction of Femoral Offset after THA for Femoral Neck Fracture <i>Andrew A. Barrett, MD, Stanford University School of Medicine</i>
1:53 pm - 1:57 pm	287 - Are Complete Blood Count Tests Necessary after Total Hip Arthroplasty? <i>Emily S. Mills, BS, Frank H. Netter MD School of Medicine at Quinnipiac University</i>
1:57 pm - 2:01 pm	180 - 90-Day Safety of the Direct Superior Approach to Total Hip Arthroplasty <i>Rami M. Ezzibdeh, Stanford University School of Medicine</i>
2:01 pm - 2:05 pm	205 - Understanding Perceived Abduction and Anteversion Angles in Anterior Total Hip <i>Anne R. Wright, MD, University of Hawaii</i>
2:05 pm - 2:09 pm	211 - Does Pain Catastrophizing Predict Age of Onset in Symptomatic Hip Dysplasia and Femoroacetabular Impingement? <i>Shawn O. Okpara, BS, University of Texas Southwestern Medical Center</i>
2:09 pm - 2:15 pm	Discussion
Resident Program (<i>Spyglass</i>)	
Moderator: Jeffrey E. Krygier, MD, <i>Santa Clara Valley Medical Center</i>	
2:15 pm – 5:30 pm	TBD

2:15 pm – 3:15 pm

Scientific Poster & E-Poster Sessions

3:15 pm – 4:15 pm

Multimedia Education Session

Saturday, August 3

5:45 am – 6:40 am

Scientific Poster & E-Poster Sessions

6:40 am – 6:45 am

Announcements

David H. Chafey III, MD, Co-Program Chair

David Mansfield, MD, Co-Program Chair

General Session 5 – WOF Resident Awards

Moderators: David H. Chafey III, MD, *University of New Mexico*

David J. Mansfield, MD, *El Paso Orthopaedic Surgery Group*

6:45 am – 6:51 am

58 - Osteogenic and Chondrogenic Differentiation Defects in Geriatric Human Skeletal Stem Cells from Acute Fractures

Lawrence H. Goodnough, MD, Stanford University

6:51 am – 6:57 am

102 - MRI Improves Diagnosis of Ipsilateral Femoral Neck and Shaft Fractures

Nathan Rogers, MD, University of Texas Health Science Center at Houston

6:57 am – 7:03 am

289 - Hypovitaminosis D is a Risk Factor for Posterior Chain Muscular Injury in NCAA Division I Track and Field Athletes

Adam Lindsay, MD, University of Southern California

7:03 am – 7:09 am

385 - Improving Trainee Arthroscopic Knot Tying Skills Using the FAST Workstation

Peters T. Otlans, MD, Oregon Health & Science University

7:09 am – 7:15 am

108 - Prospective Validation of the Sepsis MetaScore as a Novel Blood Test for Acute Septic Arthritis

Blake Schultz, MD, Stanford University

7:15 am – 7:21 am

278 - Hip Survival following Arthroscopy: Analysis of 12,733 Patients

Jie Yao, MD, University of Washington

7:21 am – 7:27 am

198 - Altered Cortical Activity during Single Leg Balance in ACL-Reconstructed Patients

Benjamin C. Meyer, MD, MountainView Regional Medical Center

7:27 am – 7:35 am

Discussion

7:35 am – 7:50 am

Second Business Meeting

Symposium 5 – Trauma

Moderator: Bryon D. Hobby, MD, FAAOS, *Billings Clinic*

7:50 am – 8:05 am

Improving Outcomes in Tibia Fractures
Bryon D. Hobby, MD, FAAOS, Billings Clinic

8:05 am – 8:20 am

Critical-Size Bone Defect Tibia Nonunions: Evaluation and Management
Jason W. Stoneback, MD, University of Colorado

8:20 am – 8:35 am

Spino-Pelvic Fixation: Indications and Controversies
Ronald W. Lindsey, MD, The University of Texas Medical Branch

8:35 am – 8:40 am

Discussion

8:40 am – 9:10 am

Focused Brunch Presentation – Medtronic
Tourniquet Free Total Knee Arthroplasty: Making the Transition and Early Experiences
Alexander P. Sah, MD
*CME Credit Not Available

Rapid Fire Session 5A – Trauma Hip

Moderator: Jonathan G. Eastman, MD, *University of California, Davis*
Andrew J. Palafox, MD, *El Paso, TX*

9:15 am - 9:19 am

305 - Anesthesia Choice for Elderly Hip Fracture Patients: Should Anticoagulant Status Matter?
Cory K. Mayfield, BS, Keck School of Medicine of the University of Southern California

9:19 am - 9:23 am

365 - Should an Elevated INR Delay Hip Fracture Surgery?
Cory K. Mayfield, BS, Keck School of Medicine of the University of Southern California

9:23 am - 9:27 am

33 - Hip Arthroplasty Outcomes for Hip Fractures in Transplant Patients
Peter P. Hsiue, MD, University of California, Los Angeles

- 9:27 am - 9:31 am 31 - Effect of Parkinson's Disease on Hemiarthroplasty Outcomes for Hip Fractures
Peter P. Hsiue, MD, University of California, Los Angeles
- 9:31 am - 9:35 am Discussion
- 9:35 am - 9:39 am 118 - The Utility of Traction Radiographs in Pre-Operative Planning for Hip Fractures
Graham Albert, McGovern Medical School at UTHSCH
- 9:39 am - 9:43 am 103 - Predictors for 30-Day To One-Year Readmission in a Geriatric Hip Fracture Population
Samuel K. Stephenson, MD, Cedars Sinai Medical Center
- 9:43 am - 9:47 am 105 - Blood Transfusion Rates and Predictors Following Geriatric Hip Fracture Surgery
Armin Arshi, MD, David Geffen School of Medicine at UCLA
- 9:47 am - 9:51 am 106 - Inpatient Rehabilitation Facility Utilization in Postsurgical Orthogeriatric Hip Fracture Care
Armin Arshi, MD, David Geffen School of Medicine at UCLA
- 9:51 am - 9:55 am Discussion

Rapid Fire Session 5B – Upper Extremity

Moderator: Robert R. Slater, Jr., MD, *Folsom, CA*
Robin N. Kamal, MD, *Stanford University Medical Center*

- 9:15 am - 9:19 am 139 - Incidence of Corrective Procedures after Non-Operatively Managed Distal Radius Fractures in the Elderly
Nicholas P. Satariano, MD, University of California, San Francisco
- 9:19 am - 9:23 am 209 - Thumb UCL Repair with Suture Tape Augmentation Restores Kinematics
Nilay A. Patel, MD, University of California, Irvine
- 9:23 am - 9:27 am 152 - Comparison of Patient-Specific and Generic PROMs Following Elective Hand Surgery
Lauren M. Shapiro, MD, Stanford University
- 9:27 am - 9:31 am 262 - Risk Factors for Failed Conservative Management of Trigger Digits

Hyunwoo P. Kang, MD, University of Southern California

9:31 am - 9:35 am

Discussion

9:35 am - 9:39 am

155 - Two-Word Assessment and its Association with Likelihood to Recommend
Lauren M. Shapiro, MD, Stanford University

9:39 am - 9:43 am

86 - Articular Injuries in Acute and Chronic Operative Acromioclavicular Joint Injuries
Matti P. Asuma, MD, Madigan Army Medical Center
**Presented by Taylor D. Mansfield, MD*

9:43 am - 9:47 am

438 - Chronic Distal Biceps Avulsion Treated with Suture Button
Joseph D. Mueller, DO, Ventura Orthopedics

9:47 am - 9:51 am

351 - Cost and Trends of Treatment for Proximal Humerus Fractures
Edward J. Wu, MD, Stanford University

9:51 am - 9:55 am

Discussion

Rapid Fire Session 5C – Foot & Ankle

Moderator: Kimberly L. Furry, MD, *Mercy Orthopedics Associates*
David J. Mansfield, MD, *El Paso Orthopaedic Surgery Group*

9:15 am - 9:19 am

35 - A Retrospective Radiographic Evaluation of Augment Bone Graft Fusion
Trevor J. Shelton, MD, University of California, Davis

9:19 am - 9:23 am

92 - Postoperative Oral Antibiotics in Outpatient Foot and Ankle Surgery
Jacob R. Carl, MD, University of California, Davis

9:23 am - 9:27 am

111 - A Prospective, Randomized Suture-Button vs. Screw Syndesmotic Fixation
Patrick S. Barousse, MD, University of California, Davis

9:27 am - 9:31 am

140 - Radiographic Outcomes of Lisfranc Injuries Treated with a Suture Button Device
Connor Delman, MD, University of California, Davis

9:31 am - 9:35 am

Discussion

- 9:35 am - 9:39 am 230 - Utilization and Cost of Total Ankle Replacement vs. Tibiotalar Arthrodesis
Cary S. Politzer, MD, University of California, San Diego
- 9:39 am - 9:43 am 76 - Radiographic Evaluation of Adult Acquired Flatfoot Correction with Augmented Spring Ligament Repair
Jason Fogleman, MD, University of California, Davis
- 9:43 am - 9:47 am 89 - Evaluation of the Learning Curve for Total Ankle Replacement Using the Transfibular Approach
Hyunwoo P. Kang, MD, University of Southern California
- 9:47 am - 9:51 am 123 – Intra-Operative Fluoroscopy vs. Postoperative Weightbearing Radiographs after Bunion Surgery
Amber L. Price, MD, University of New Mexico
- 9:51 am - 9:55 am Discussion

Rapid Fire Session 5D – Basic Science

Moderator: James H. Flint, MD, *US Navy Orthopedics*
David H. Chafey III, MD, *University of New Mexico*

- 9:15 am - 9:19 am 26 - Aged Mice Demonstrate Greater Muscle Degeneration After Rotator Cuff Injury
Abhinav K. Sharma, BS, David Geffen School of Medicine at UCLA
- 9:19 am - 9:23 am 75 - Regional Gene Therapy with Adipose-derived Stem Cells for Bone Repair
Venus Vakhshori, MD, University of Southern California Medical Center
- 9:23 am - 9:27 am 335 - Dramatically Improved Strength of Proximal Humeral Fixation with a Tuberosity-Specific Fixation Plate
Robert S. Walker, MD, University of Arizona College of Medicine Phoenix
- 9:27 am - 9:31 am 193 - Evaluation of Multiplanar Stability in Neer Type IIB Clavicle Fractures
John Garlich, MD, Cedars-Sinai Orthopaedic Surgery
- 9:31 am - 9:35 am Discussion
- 9:35 am - 9:39 am 387 - Omega 3 Fatty Acid (O3FA) Supplementation Reduces Intervertebral Disc Degeneration
Phillip H. Behrens IV, MD, Cedars-Sinai Medical Center

- 9:39 am - 9:43 am 299 - Ex-Vivo Toxicity of Topical Antiseptics and Antibiotics on Human Chondrocytes
Erika L. Garbrecht, MD, University of New Mexico
- 9:43 am - 9:47 am 34 - Blood Transfusions: Does Storage Duration Affect Postoperative Infection Risk?
Peter P. Hsiue, MD, University of California, Los Angeles
- 9:47 am - 9:51 am 388 - Neural Crest-Derived Mesenchymal Stem Cells (MSCs) Enhance Bone Allograft Healing
Phillip H. Behrens IV, MD, Cedars-Sinai Medical Center
- 9:51 am - 9:55 am Discussion
- Rapid Fire Session 5E – Total Knee**
Moderator: Bryan S. Moon, MD, *MD Anderson Cancer Center*
Alysia K. Kemp, MD, *The University of Texas MD Anderson Cancer Center*
- 9:15 am - 9:19 am 428 - CRP (C Reactive Protein) Level after Total Knee Replacement in Indian Population- Does it Follow Anglo-Saxon Trend?
Sanjay B. Londhe, MS FRCS FRCSI MCh (Orth), Holy Spirit Hospital
- 9:19 am - 9:23 am 430 - Post TKR Home Physiotherapy for a Period of Six Weeks Reduces the Rate of Post TKR Manipulation Under Anesthesia (MUA) Rate
Sanjay B. Londhe, MS FRCS FRCSI MCh (Orth), Holy Spirit Hospital
- 9:23 am - 9:27 am 24 - Cooled Radiofrequency Ablation (CRFA) of the Geniculate Nerves Prior to Unilateral Total Knee Arthroplasty (TKA) Reduces Patient-Reported Pain Two Weeks Postoperatively
Jeffrey Lyman, MD, Institute for Orthopedic Research and Innovation
- 9:27 am - 9:31 am 369 - Weight Loss Knowledge Base in the Total Joint Candidate
Kenton B. Panas, MD, University of Oklahoma
- 9:31 am - 9:35 am Discussion
- 9:35 am - 9:39 am 65 – Influence of Prior Arthroscopy on Primary TKA Complications and Readmissions

Geoffrey Rohlfing, MD, University of California, San Francisco

9:39 am - 9:43 am

444 - Is there Risk to Using the Thinnest Liner in Primary TKA? Evaluation of Knee Range of Motion, Outcomes, and Manipulation Rates with the Thinnest Available Liner
Alexander P. Sah, MD, Institute for Joint Restoration

9:43 am - 9:47 am

393 - Robotic Arm Assisted Total Knee Arthroplasty Workflow Optimization: A Technique Paper Demonstrating Operative Times Comparable to Traditional Instrumentation
Max Lingamfelter, MD, Inspira Health Network

9:47 am - 9:51 am

401 - Revision of a Medial UKA to a Kinematically Aligned TKA
Trevor J. Shelton, MD, University of California, Davis

9:51 am - 9:55 am

Discussion

Concurrent Allied Health Session 3

Moderator: *Theodore W. Coates, PA-C, University of California, Davis*

9:15 am – 10:15 am

Pediatric Sports Medicine
Brian M. Haus, MD, University of California, Davis

9:55 am – 10:20 am

Break – Please visit Exhibits

Symposium 6 – Spine Surgery

Moderator: *Nitin N. Bhatia, MD, FACS, University of California, Irvine*

10:20 am – 10:35 am

Minimally Invasive Spine Surgery
Yu-Po Lee, MD, University of California, Irvine

10:35 am – 10:50 am

Spinal Stenosis and New Technologies
Evalina Burger, MD, University of Colorado

10:50 am – 11:05 am

Pre-Operative Assessment of Bone Quality Prior to Adult Deformity Surgery
Olumide A. Danisa, MD, Loma Linda University Health

11:05 am – 11:10 am

Discussion

11:10 am – 11:40 am

Focused Lunch Presentation – Johnson & Johnson Medical Devices Company

Optimizing a Multimodal Approach to Control Postsurgical Pain

Alexander P. Sah, MD

*CME Credit Not Available

General Session 6 – Own the Bone, BOC Report & Presidential Address

Moderators: David H. Chafey III, MD, *University of New Mexico*

David J. Mansfield, MD, *El Paso Orthopaedic Surgery Group*

11:40 am – 11:45 am

Own the Bone

Update on The American Orthopaedic Association’s “Own the Bone” Registry

Fred C. Redfern, MD, Henderson, NV

11:45 am – 11:50 am

BOC Report

Bryan S. Moon, MD, MD Anderson Cancer Center

11:50 am – 12:15 pm

Presidential Address

Dad's Lunchbox

Omer A. Ilahi, MD, Southwest Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute

General Session 7 – Abstract Presentations

Moderator: TBD

12:15 pm – 12:23 pm

OREF/WOF Funded Presentation

248 - The Impact of Early Sport Specialization on the Collegiate Athlete

Caitlin M. Rugg, MD, UC San Francisco Orthopaedic Surgery

12:23 pm – 12:31 pm

OREF/WOF Funded Presentation

460 - Ex-Vivo Toxicity of Commonly-Used Topical Antiseptics, Antibiotics and Tranexamic Acid on Human Chondrocytes

Erika Garbrecht, MD, University of New Mexico

12:31 pm – 12:37 pm

386 - Estrogen Receptor Alpha Expression in Female Knee Articular Cartilage

Marissa Hughbanks, MD, University of Colorado School of Medicine

- 12:37 pm – 12:43 pm 109 - How Mobile Technology Changes Reporting of Morbidity and Mortality
Christopher R. Johnson, MD, Cedars Sinai
- 12:43 pm – 12:49 pm 296 - A Biomechanical Comparison of Dual-Plate and Plate-Nail Fixation in Supracondylar Distal Femur Fractures
David J. Wright, MD, University of California, Irvine
- 12:49 pm – 12:55 pm 196 - Utility of Debridement for Ballistic Lower Extremity Fractures
Ali Azad, MD, University of Southern California
- 12:55 pm – 1:01pm 425 - Is Posterior Referencing a Reliable Technique for Rotational Femoral Component Alignment in TKR?
Mahdie Kerdari, MD, Rowan University, Glassboro, New Jersey
- 1:01 pm – 1:07 pm 340 - Hip and Knee Arthroplasty Medicare Reimbursement 2000-2018: An Unsustainable Trend
Cory K. Mayfield, BS, Keck School of Medicine of the University of Southern California
- 1:07 pm – 1:13 pm 288 - The Necessity of Basic Metabolic Panel Tests After Total Hip Arthroplasty
Emily S. Mills, BS, Frank H. Netter MD School of Medicine at Quinnipiac University
- 1:13 pm – 1:20 pm Discussion

Concurrent Allied Health Session 4

Moderator: *Jonathan G. Eastman, MD, University of California, Davis*

1:25 pm – 2:25 pm **Ultrasound Injection Lab**
Speaker TBD

Rapid Fire Session 6A – Trauma Femur

Moderator: *Geoffrey Marecek, MD, Keck School of Medicine of the University of Southern California*
Adam A. Sassoon, MD, University of California, Los Angeles

1:25 pm - 1:29 pm 170 - Comparison of IMN to Plating for Periprosthetic Distal Femur Fractures

Elizabeth Gausden, MD, University of Texas Health Science Center at Houston

- 1:29 pm - 1:33 pm 187 - A New Orthogonal Plate Configuration in Treating Periprosthetic Proximal Femur Fractures
Kareem Shaath, MD, University of Texas Health Science Center
- 1:33 pm - 1:37 pm 254 - Full Weight-Bearing after Fixation of Vancouver B1 Femur Fractures
Malcolm DeBaun, MD, Stanford University
- 1:37 pm - 1:41 pm 298 - Supracondylar Distal Femur Fractures: Nail Diameter Significantly Impacts Stability in Plate-Nail Constructs
David J. Wright, MD, University of California, Irvine
- 1:41 pm - 1:45 pm 154 - Subsequent Femoral Fragility Fractures: Underreported and Construct-Related
Michael Murphy, Loyola University Medical Center
- 1:45 pm - 1:49 pm 195 - Open Femur Fractures: Complications and Outcome
Mary Kate Erdman, MD, University of Southern California
- 1:49 pm - 1:55 pm Discussion
- 1:55 pm - 1:59 pm 182 - Closed vs. Open Reduction For Young Patients with Femoral Neck Fractures
Adam J. Miller, MD, University of Texas Health Science Center at Houston
- 1:59 pm - 2:03 pm 156 - Predictors of Nonunions in Young Patients with Femoral Neck Fractures
Adeet Amin, BA, University of Texas Houston Orthopedics
- 2:03 pm - 2:07 pm 414 - Rates of Femoral Neck Fracture Union Using Variable Pitch Screws
Tony Bouz, DO, Fontana, CA
- 2:07 pm - 2:11 pm 56 - Fractures Associated with Short vs. Long Cephalomedullary Nails: Distinct Injury Patterns and Patient Outcomes
Lawrence H. Goodnough, MD, Stanford University
- 2:11 pm - 2:15 pm 269 - Prostheses Impact Amputee Quality of Life and Function in Tanzania
Syed Ali, University of California, San Francisco

2:15 pm - 2:19 pm 115 - Moped Riders More Likely to Sustain Head Injuries than Motorcyclists
Tyler Kent, MD, University of Nevada Las Vegas

2:19 pm - 2:25 pm Discussion

Rapid Fire Session 6B – Total Knee

Moderator: Jeffrey M. Nakano, MD, *VA Medical Center*

Russell T. Nevins, MD, *Nevada Orthopaedic & Spine Center*

1:25 pm - 1:29 pm 11 - Effect of Modern Blood Preservation Techniques in Patients Undergoing Unicompartment Knee Replacement, Unilateral Total knee Replacement and Concurrent Bilateral Total Knee Replacement
Rohan Bhimani, MD, Massachusetts General Hospital

1:29 pm - 1:33 pm 83 - Pes Planus is Associated with Poor Outcomes After TKA
Allison Roe, MD, Stanford Hospital

1:33 pm - 1:37 pm 12 - Difference between Mechanical Alignment in Navigation vs. Scanogram during Total Knee Arthroplasty
Rohan Bhimani, MD, Massachusetts General Hospital

1:37 pm - 1:41 pm 71 - Utilization, Costs, and Complications of Outpatient vs. Inpatient Unicompartmental Knee Arthroplasty
Sahitya K. Denduluri, MD, Stanford Orthopaedic Surgery

1:41 pm - 1:45 pm 284 - Routine Postoperative Complete Blood Count Tests after Total Knee Arthroplasty
Emily S. Mills, BS, Frank H. Netter, MD, School of Medicine at Quinnipiac University

1:45 pm - 1:49 pm 320 - Predictors of Changing Surgeon for Subsequent Elective Total Joint Replacement
Syed Ali, University of California, San Francisco

1:49 pm - 1:55 pm Discussion

1:55 pm - 1:59 pm 415 - Patella Baja after Knee Arthroscopy and Early Impact on TKA
David A. Brethouwer, DO, Kaiser Permanente Southern California

- 1:59 pm - 2:03 pm 245 - Modern Posterior Stabilized All-Polyethylene Tibias are Equal to Metal-Backed Tibias
Ezequiel A. Andrade, Hoag Orthopedics Institute
- 2:03 pm - 2:07 pm 285 - When Are Basic Metabolic Tests after Total Knee Arthroplasty Useful?
Emily S. Mills, BS, Frank H. Netter MD School of Medicine at Quinnipiac University
- 2:07 pm - 2:11 pm 336 - Population-Based Survivorship of Computer Navigated vs. Conventional Total Knee Arthroplasty
Hyunwoo P. Kang, MD, University of Southern California
- 2:11 pm - 2:15 pm 420 - Implementation of a Standardized Care Pathway for Total Knee Arthroplasty
Daniel Gelvez, BS, University of Texas Southwestern Medical Center
- 2:15 pm - 2:19 pm 183 - Large Osteochondral Allograft Transplantation for Acute Traumatic Knee Articular Defects
Braden F. Goldberg, McGovern Medical School
- 2:19 pm - 2:25 pm Discussion

Rapid Fire Session 6C – Sports Medicine

Moderator: Luis H. Urrea II, MD, *El Paso Orthopaedic Surgery Group*

- 1:25 pm - 1:29 pm 138 - Pain Management of Anterior Cruciate Ligament Reconstruction
Augustine M. Saiz Jr., MD, University of California, Davis
- 1:29 pm - 1:33 pm 169 - Impact of Sport and Injury: Assessing Athletes Using PROMIS Instruments
Kenneth J. Hunt, MD, University of Colorado Denver School of Medicine
- 1:33 pm - 1:37 pm 321 - Does a Dual Attending Surgeon Strategy Confer Additional Benefit in Multi-Ligament Knee Injury Reconstruction?
Christopher Kurnik, MD, University of New Mexico
- 1:37 pm - 1:41 pm 422 - Methodologic Quality of Top-Cited Articles Relating to Knee Dislocation
David A. Hankins, MD, University of New Mexico

- 1:41 pm - 1:45 pm 364 - Does Discoid Morphology Affect Performance on Return-to-Sport Testing after Meniscal Repair
Megan H. M. Kuba, MD, Kaiser Permanente Orange County
- 1:45 pm - 1:49 pm 368 - Helmet Design and Hits to the Head: Analysis of NFL Tackling 1951-Present
David Wang, MD, GWU School of Medicine
- 1:49 pm - 1:55 pm Discussion
- 1:55 pm - 1:59 pm 457- Ramp Lesions of the Medial Meniscus in the Setting of ACL Rupture: Reoperation Rates and Clinical Outcomes
Dean Wang, MD, University of California, Irvine
- 1:59 pm - 2:03 pm 265 - Factors Associated with Delay in Diagnosis of ACL Injuries
Casey A. Slattery, BS, University of Washington
- 2:03 pm - 2:07 pm 268 - Cost Data for Nonsurgical Treatments in Sports Medicine are Lacking
Jie Yao, MD, University of Washington
- 2:07 pm - 2:11 pm 29 - Neuromonitoring Changes during Pediatric Hip Arthroscopy
Trevor J. Shelton, MD, University of California, Davis
- 2:11 pm - 2:15 pm 293 - Future ACL Injury Risk after ACL Reconstruction in Patients with Vascular Comorbidities: A Retrospective Database Study
Matthew C. Gallo, BA, University of Southern California
- 2:15 pm - 2:19 pm 376 - The Effect of Artificial Turf vs. Natural Grass on the Incidence of Ankle Injuries in NCAA Football 2004 - 2014 Seasons
Dave Milzman, MD, GWU School Of Medicine
- 2:19 pm - 2:25 pm Discussion

Rapid Fire Session 6D – Practice Management/Education & Other

Moderator: Lawrence Housman, MD, *Tucson Orthopaedic Institute PC*
Steven W. Thorpe, MD, *University of California, Davis Medical Center*

- 1:25 pm - 1:29 pm 347 - What Patient Reported Outcome Should I Use?
Erik A. Magnusson, MD, University of Washington

- 1:29 pm - 1:33 pm 134 - Tibial IMN: Virtual Reality vs. Standard Surgical Guide Randomized Study
Gideon Blumstein, MD, MS, University of California, Los Angeles
- 1:33 pm - 1:37 pm 233 - The Presence and Implications of Education Silos in Orthopaedic Trauma
Mary Kate Erdman, MD, University of Southern California
- 1:37 pm - 1:41 pm 263 - Predicting Loss to Follow-Up after Lower Extremity Fractures
Patrick Albright, BS, MS, University of California-San Francisco
- 1:41 pm - 1:45 pm 46 - Bringing In an Associate: Friend or Future Foe?
Debra Phairas, San Francisco, CA
- 1:45 pm - 1:49 pm 49 - Decreasing Orthopedic Reimbursement Trends From 2000-2016
Robert S. Walker, MD, University of Arizona College of Medicine Phoenix
- 1:49 pm - 1:55 pm Discussion
- 1:55 pm - 1:59 pm 82 - Perioperative Mental Health Status Does Not Affect Patient Satisfaction after TKA
Laura Lu, Stanford University
- 1:59 pm - 2:03 pm 158 - Early Regional Anesthesia Improves Pain Management in Geriatric Hip Fractures
John Garlich, MD, Cedars-Sinai Orthopaedic Surgery
- 2:03 pm - 2:07 pm 329 - Postoperative Opioids are Associated with Nonunion after Long Bone Fractures
Sarah Bhattacharjee, Pritzker School of Medicine at the University of Chicago
- 2:07 pm - 2:11 pm 345 - Trends in Payments to Orthopedic Surgeons from 2013-2017 following the Sunshine Act
Nathanael D. Heckmann, MD, Keck School of Medicine of the University of Southern California
- 2:11 pm - 2:15 pm 412 - Alpha-Defensin Only Changes Clinical Decision-Making when Physicians are Undecided about the Diagnosis of Periprosthetic Joint Infection
Derek F. Amanatullah, MD, PhD, Stanford University

2:15 pm - 2:19 pm 398 - The Efficacy of Pediatricians Splinting Injuries in the Office Setting
Byron H. Izuka, MD, Childrens Orthopaedics of Hawaii

2:19 pm - 2:25 pm Discussion

Rapid Fire Session 6E – Spine

Moderator: Nitin N. Bhatia, MD, FACS, *University of California, Irvine*
Olumide A. Danisa, MD, *Loma Linda University Health*

1:25 pm - 1:29 pm 222 - Reduced Mortality in Pediatric Non-Idiopathic Scoliosis by Implementing a Multidisciplinary
Lorenzo de Rama Deveza, MD, PhD, Baylor College of Medicine

1:29 pm - 1:33 pm 240 - Dural Tears and Venous Thromboembolic Complications: Is there Increased Risk?
Ram K. Alluri, MD, Keck Medical Center of USC

1:33 pm - 1:37 pm 348 - Does Autism Alter the Risk Profile for Idiopathic Scoliosis Surgery?
John S. Vorhies, MD, Stanford University Medical Center

1:37 pm - 1:41 pm 377 - Prospective Evaluation of Bilateral Decompression in Patients with Degenerative Spondylolisthesis
Kimberly E. Hall, MD, Stanford Hospital and Clinics

1:41 pm - 1:45 pm 411 - Efficacy and Safety of Early Thromboprophylaxis after Spinal Cord Injury
Seth Ahlquist, BS, David Geffen School of Medicine at UCLA

1:45 pm - 1:49 pm 418 - Resiliency and Patient-Reported Outcomes in Active-Duty Military Patients Undergoing Lumbar Spinal Surgery
Nicholas J. Drayer, MD, Madigan Army Medical Center

1:49 pm - 1:55 pm Discussion

1:55 pm - 1:59 pm 455 - Economic Impact of Revisions for Cervical Spine Adjacent Segment Disease
Alexander A. Theologis, MD, University of California, San Francisco

1:59 pm - 2:03 pm 21 - Risk Factors for Dysphagia/Dysphonia after Anterior Cervical Spine Surgery

*Ruwan Ratnayake, MD, University of California, Davis
Medical Center*

**Presented by Jacob I. Priester, BS*

2:03 pm - 2:07 pm

244 - Semitendinosus Ligament Reinforcement for
Prevention of Proximal Junctional Failure
Ram K. Alluri, MD, Keck Medical Center of USC

2:07 pm - 2:11 pm

251 - Spinolaminar Cortical Locking Plate: A
Biomechanical Analysis for Lumbar Arthrodesis
*Khalid Odeh, MD, St. Mary's Medical Center, San
Francisco*

2:11 pm - 2:15 pm

39 - Utilization and Reimbursement Trends Based on
Certificate-of-Need in Single-Level Cervical
Decompression
Abiram Bala, MD, Stanford University

2:15 pm - 2:19 pm

54 - Repeat Cervical Spine MRI in Patients with
Documented Cervical Degeneration
*Grant McChesney, MD, University of Texas Medical
Branch*

2:19 pm - 2:25 pm

Discussion

2:25 pm – 3:25 pm

Multimedia Education Session