**WOA Scientific Program**

**Westin Snowmass Resort, Snowmass, CO**

**August 1-4, 2018**

**Thursday, August 2**

5:45 am – 6:45 am **Scientific E-Poster Session** (Presenters are available to answer questions.)

6:45 am – 6:50 am **Welcome and Announcements**

*Jeffrey E. Krygier, MD, Program Chair  
 Brian A. Jewett, MD, President*

6:50 am – 7:00 am **First Business Meeting**

**Symposium 1 – Sports – Focus on the Athlete’s Knee**

**Moderator:** Jonathan Bravman, MD, *University of Colorado School of Medicine*

7:00 am – 7:12 amTeam Physician Role and Responsibilities: How to Do it Right

*Eric McCarty, MD, University of Colorado School of Medicine*

7:12 am – 7:24 amReturn to Play after an ACL Injury

*Kevin D. Plancher, MD, Albert Einstein College of Medicine*

7:24 am – 07:36 amManagement of the “Other” Knee Ligaments (ALL, MCL, LCL, etc…)

*CAPT Matthew T. Provencher, MD, The Steadman Clinic*

7:36 am – 7:48 amCurrent State of the Art in Treatment of Patellar Instability

*Rachel M. Frank, MD, University of Colorado School of Medicine*

7:48 am – 7:50 amDiscussion

**Rapid Fire Sessions 1A – Pediatrics**

**Moderators:** Stephanie Y. Pun, MD, *Stanford University Medical Center*

Meghan Imrie, MD, *Stanford University Medical Center*

7:55 am – 7:59 am Trends in Pediatric Traumatic Upper Extremity Amputations

*Venus* *Vakhshori, MD, Keck School of Medicine of the University of Southern California*

7:59 am – 8:03 am Association Between Fracture Laterality and Nerve Injury Among Pediatric Supracondylar Humerus Fractures

*Diana Douleh, MD, University of Colorado*

8:03 am – 8:07 am How Often Are Pediatric Elbow Radiographs Adequate for Interpretation

*Daniel* *Brereton, DO, Riverside University Health System*

*\*Presented by Steven Kenney, DO, MPH*

8:07 am – 8:11 am Mischievous Metaphyseal Metallic Implants in Children

*Chason* *Ziino, MD, Stanford University*

*\*Presented by Kim Hall, MD*

8:11 am – 8:15 am Discussion

8:15 am – 8:19 am Radiolucent versus Fracture Tables for In Situ SCFE Pinning

*Katherine Schroeder, MD, Texas Children's Hostpital/ Baylor College of Medicine*

8:19 am – 8:23 am Accuracy of Fluoroscopy When Assessing Pin Protrusion during Fracture Stabilization?

*Steven* *Kenney, DO, MPH, Riverside University Health System*

8:23 am – 8:27 am Sacroiliac Periosteal Avulsion as an Indication of Posterior Pelvic Fracture Instability in Children

*Chase* *Dean, MD, University of Colorado School of Medicine*

8:27 am – 8:31 am Closed versus Surgical Management of SER IV Ankle Fractures in Adolescents: Maintain the Ankle Mortise

*Benjamin* *Lurie, BA, Rady Children's Hospital*

8:31 am – 8:35 am Discussion

**Rapid Fire Sessions 1B – Upper Extremity/Hand & Wrist**

**Moderators:** Gregory L. DeSilva, MD*, University of Arizona Health Sciences*

Basil R. Besh, MD*, Fremont Orthopaedic & Rehabilitative Medicine*

7:55 am – 7:59 am Proximal Row Carpectomy versus Four Corner Fusion: Regional Differences, Incidence, and Conversion to Fusion

*Harrison Kay, MD, University of Southern California Medical Center*

7:59 am – 8:03 am Feasibility and Usability of a Ranking Tool for Trigger Finger

*Lauren Shapiro, MD, Stanford Hospital and Clinics*

8:03 am – 8:07 am Wrist Arthroscopy for the Treatment of Scapholunate Predynamic Instability and Return to Push-Up Activity

*Christopher* *Belyea, MD, Tripler Army Medical Center*

8:07 am – 8:11 am FasT-Fix All-Arthroscopic Repair of Peripheral TFCC Tears: Safe and Effective in Long-Term

*Eric Sarkissian, MD, Stanford University Medical Center*

8:11 am – 8:15 am Discussion

8:15 am – 8:19 am Epidemiological and Treatment Trends of Distal Radius Fractures Across Multiple Age Groups

*Ali* *Azad, MD, University of Southern California*

8:19 am – 8:23 am Peripheral Nerve Block Prior to Distal Radius Repair

*Pierce* *Johnson, MD, Banner University of Arizona*

8:23 am – 8:27 am Feasibility and Usability of Conjoint Analysis for Distal Radius Fractures

*Lauren Shapiro, MD, Stanford Hospital and Clinics*

8:27 am – 8:31 am Declining Use of Wrist External Fixation – The Rise of the Bridge Plate

*Venus Vakhshori, MD, Keck School of Medicine of the University of Southern California*

8:31 am – 8:35 am Discussion

**Rapid Fire Sessions 1C – Total Hip**

**Moderators:** Alexander Sah, MD*, Institute for Joint Restoration*

Kathryn L. Schabel, MD, *Oregon Health & Science University*

7:55 am – 7:59 am Learning Curve for Direct Anterior Approach for Total Hip Arthroplasty

*Tyler Goldberg, MD, Texas Orthopedics, Sports and Rehabilitation Associates*

7:59 am – 8:03 am Statin Use Is Associated with Less Postoperative Arrhythmia after Total Hip Arthroplasty

*Michael* *Chen, MD, Stanford Univesity*

8:03 am – 8:07 am THA in HIV-Positive Patients Managed with Contemporary Protocols Outcomes

*Clara L.* *Telford, BA, University of Texas Southwestern*

*\*Presented by Sean Shahrestani, MD*

8:07 am – 8:11 am Resources and Complications in Primary Total Arthroplasty for Dialysis Patients

*Joseph* *Patterson, MD, University of California San Francisco*

8:11 am – 8:15 am Discussion

8:15 am – 8:19 am Incision Site Subcutaneous Fat Thickness and 90-Day Complications for THA

*Gregory Sprowls, MD, Baylor Scott and White Health*

8:19 am – 8:23 am Quantification of the Dorr Classification System

*Tyler* *Goldberg, MD, Texas Orthopedics, Sports and Rehabilitation Associates*

8:23 am – 8:27 am To Cement or Not to Cement? Modern Hybrid Total Hip Replacement - Low Risks and Excellent Results with Cemented Femoral Fixation

*Alexander* *Sah, MD, Institute for Joint Restoration*

8:27 am – 8:31 am First Report of Early Results of a Commonly Used Cementless Single Tapered Femoral Component in Primary Total Hip Arthroplasty

*Alexander Sah, MD, Institute for Joint Restoration*

8:31 am – 8:35 am Discussion

**Rapid Fire Sessions 1D – Sports Medicine**

**Moderators:** Eric McCarty, MD*, University of Colorado School of Medicine*

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

*Medicine Institute*

7:55 am – 7:59 am Outcomes of Arthroscopic Capsular Release Based on Patient Position

*Darby A.* *Houck, BA, University of Colorado School of Medicine*

7:59 am – 8:03 am Regional Anesthesia for Shoulder Arthroscopy Decreases Early Opioid Requirements in Preoperative Opioid Users

*Nicholas* *Trasolini, MD,* *Keck School of Medicine of the University of Southern California*

*\*Presented by Hyunwoo Kang, MD*

8:03 am – 8:07 am Does the ABER View Improve Preoperative Identification of Labral Lesions?

*Jeffrey* *Mait, MD, The Sports Clinic*

8:07 am – 8:11 am Scapular Retraction Test's Diagnostic Accuracy in Assessing Rotator Cuff Status

*Stephen* *Gates, MD, University of Texas Southwestern*

8:11 am – 8:15 am Discussion

8:15 am – 8:19 am Trans-Osseous versus Anchor Repair of Acute Patellar Tendon Ruptures

*James* *O'Dowd, MD, University of Southern California*

8:19 am – 8:23 am Trans-Osseous Versus Anchor Repair of Acute Quadriceps Tendon Ruptures

*Steven* *Heer, BS, Tulane School of Medicine*

8:23 am – 8:27 am Return to Work after Autologous Chondrocyte Implantation of the Knee in Patients with Workers’ Compensation Insurance

*John* *Lane, MD, University of California*

8:27 am – 8:31 am Outcomes of Pediatric Meniscal Injuries

*Stephanie* *Logterman, MD, University of Colorado*

8:31 am – 8:35 am Discussion

**Concurrent Allied Health Session 1 – Hand**

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

7:55 am – 8:55 am Review of Hand Injuries and Conditions

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

8:35 am – 8:55 am ***Break – Please Visit Exhibits***

**General Session 1 – Howard Steel Lecture**

**Moderator:**Brian A. Jewett, MD, *Slocum Center for Orthopedics and Sports Medicine*

8:55 am – 9:00 am Introduction of Presidential Guest Speaker

*Brian A. Jewett, MD, Slocum Center for Orthopedics and Sports Medicine*

9:00 am – 9:50 am Howard Steel Presentation

Choosing Resilience: How Physicians and Medical Organizations

Can Curb Burnout

*Wayne M. Sotile, PhD****,*** *The Sotile Center for Resilience and the Center for Physician Resilience*

9:50 am *–* 10:10 am ***Break – Please Visit Exhibits***

**Symposium 2 – Surviving Hand Call for Non-Hand Specialists – A Case Based Session with**

**Panel of Experts**

**Moderator:** Jeffrey E. Krygier, MD, *Santa Clara Valley Medical Center*

***Panelists:***

*Gregory L. DeSilva, MD, University of Arizona Health Sciences*

*Kevin D. Plancher, MD, Albert Einstein College of Medicine*

*Robin N. Kamal, MD, Stanford University Medical Center*

10:10 am *–* 11:00 am Panel Discussion

11:00 am – 12:00 pm **Focused** **Lunch Presentation**

Pacira Pharmaceuticals

Moving Toward Opioid Free Orthopedic Surgery

\*CME Credit Not Available

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

**Moderator:** Jeffrey E. Krygier, MD, *Santa Clara Valley Medical Center*

12:00 pm – 12:05 pm OREF Update

*P. Joanne Ray, CEO of Orthopaedic Research and Education Foundation*

12:05 pm – 12:13 pm Biomarkers of Neutrophil Extracellular Trap Formation (NETosis) and their Relationship to Wound Healing in Ankle Fracture Surgery

*William Kent, MD, University of California, San Diego*

12:13 pm – 12:21 pm 3-Dimensional Virtual Reality for Pain Control in Orthopaedic Patients: A Prospective Randomized Control Study

*Milton* *Little, MD,* *Cedars Sinai Medical Center*

12:21 pm – 12:29 pm Correlation of Intraoperative Neurophysiologic Monitoring Changes with Postoperative Neurologic Deficits

*Kali* *Tileston, MD, Stanford University*

12:29 pm – 12:35 pm Discussion

**Concurrent Allied Health Session 2 – Trauma**

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

12:00 pm – 1:00 pmHip Fractures – Diagnosis and Management

*Milton “Chip” Routt Jr., MD*, *University of Texas Health Science Center*

**Rapid Fire Sessions 2A – Other**

**Moderators:** Robin H. Dunn, MD*, University of Colorado School of Medicine*

Jeffrey E. Krygier, MD, *Santa Clara Valley Medical Center*

12:40 pm – 12:44 pm Patient Mental Health Status is Minimally Associated with Patient Satisfaction

*Laura* *Lu, BS, Stanford University*

*\*Presented by Derek Amanatullah, MD, PhD*

12:44 pm – 12:48 pm The Effect of a Revised Curriculum on OITE Performance

*Taylor* *Lara, MD, Oregon Health & Science University*

12:48 pm – 12:52 pm A Structured Review Instrument Improves the Quality of Orthopaedic Journal Club

*Sean* *Campbell, MD, Stanford University*

12:52 pm – 12:56 pm Orthopaedic Surgery Residents and the Physician Payment Sunshine Act: Are Payments to Resident Physicians Being Reported in the Open Payments Database?

*Jason* *Ghodasra, MD, MSCI, University of California Los Angeles*

*\*Presented by Kent T. Yamaguchi, MD*

12:56 pm – 1:00 pm Discussion

1:00 pm – 1:04 pm Which Subspecialties Produce Best Evidence at the AAOS Annual Meeting?

*Kimberly Souza, BS, Stanford University*

1:04 pm – 1:08 pm The Thirty Year Slump: Gender Diversity in Orthopaedic Literature

*Meghan* *Brown, MD, University of Southern California Medical Center*

1:08 pm – 1:12 pm Gender Disparities in Industry Support of Orthopaedic Surgeons

*Rafael* *Buerba, MD, MHS,* *University of California Los Angeles*

*\*Presented by Danielle C. Greenberg, BS*

1:12 pm – 1:16 pm Current Maternity, Paternity and Adoption Leave Policies in Orthopaedic Surgery Residencies

*Sara* *Van Nortwick, MD, Stanford University*

*\*Presented by Breana Siljander, MD*

1:16 pm – 1:20 pm Discussion

1:20 pm – 1:24 pm Can Patients and Families Read the Questionnaires for Patient Related Outcome Measures?

*Ellen Raney, MD, Shriners Hospital for Children*

1:24 pm – 1:28 pm One-Year Global Unplanned Reoperation Rates: A Useful Quality Metric in Orthopaedic Surgery?

*Olufemi* *Adams, BA, BS, University of Chicago - Pritzker School of Medicine*

1:28 pm – 1:32 pm Does Tailoring Discharge Opioid Regimens to Inpatient Use after Orthopaedic Procedures Affect Refill Rates?

*Trevor* *Grace, MD, University of California San Francisco*

1:32 pm – 1:36 pm Infection Surveillance at Ambulatory Surgical Centers

*Jory* *Wasserburger, MD, University of New Mexico*

1:36 pm – 1:40 pm Discussion

**Rapid Fire Sessions 2B – Upper Extremity**

**Moderators:** Robin N. Kamal, MD*, Stanford University Medical Center*

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

12:40 pm – 12:44 pm Nationwide Database Analysis of Intramedullary Nail versus Plate Fixation for Humeral Shaft Fractures

*Paul* *Navo, MS, Keck School of Medicine of the University of Southern California*

*\*Presented by Alexis Rounds, BS*

12:44 pm – 12:48 pm Early Post-Operative Outcomes of Plate Versus Nail Fixation for Humeral Shaft Fractures

*Jill* *Goodwin, MD, University of Arizona College of Medicine*

12:48 pm – 12:52 pm Operative versus Nonoperative Treatment of Humeral Shaft Fractures

*Brian* *Cash, MD, University of California Los Angeles Medical Center and Orthopaedic Hospital*

12:52 pm – 12:56 pm Relationship Of Neurovascular Structures To Multiplanar Distal Interlocking Screws In Intramedullary Humeral Nails

*Garrett Steinmetz, MD, University of Oklahoma*

12:56 pm – 1:00 pm Discussion

1:00 pm – 1:04 pm Low-Profile Mesh Plating For Treating Transverse Olecranon Fractures: Biomechanical Evaluation

*Christina Salas, PhD, University of New Mexico*

*\*Presented by Deana Mercer, MD*

1:04 pm – 1:08 pm Low Complication Rates Among Geriatric Olecranon Fracture Patients Treated with Plate Fixation

*Sean Campbell, MD, Stanford University*

1:08 pm – 1:12 pm Comparison of Tension Band and Plate Fixation of Olecranon Fractures

*Michael Del Core, MD, University of Texas Southwestern Medical Center*

1:12 pm – 1:16 pm Concomitant Upper Extremity Fracture Worsens Outcomes in Elderly Patients with Hip Fracture

*Mary Kate* *Thayer, MD, University of Washington Department of Orthopaedics*

*\*Presented by Conor Kleweno, MD*

1:16 pm – 1:20 pm Discussion

1:20 pm – 1:24 pm A Novel Technique for Olecranon Osteotomy for Treatment of Distal Humerus Fractures

*Duncan* *Ramsey, MD, MPH, Oregon Health & Science University*

1:24 pm – 1:28 pm Radial Head Instability and Limited Hand Rotation after Simulated IOM Injury

*Christina Salas, PhD, University of New Mexico*

*\*Presented by Deana Mercer, MD*

1:28 pm – 1:32 pm Effects of Centralized Microvascular Outreach on Quality of Patient Care

*Christopher Chen, MD, University of Colorado*

1:32 pm – 1:36 pm Feasibility of Discussing Cost of Surgery at Point of Care

*Laura Lu, BS, Stanford University*

*\*Presented by Lauren Shapiro, MD*

1:36 pm – 1:40 pm Discussion

**Rapid Fire Sessions 2C – Total Knee**

**Moderators:** Alexander Sah, MD*, Institute for Joint Restoration*

Jennifer van Warmerdam, MD, *St. Mary's Medical Center Total Joint Center*

12:40 pm – 12:44 pm Manipulation Rate Is Not Increased after Customized Total Knee Arthroplasty

*Andrew B.* *Kay, MD, Houston Methodist Hospital*

12:44 pm – 12:48 pm Does Use of Robotic Technology Improve Surgeon Ergonomic Safety and Satisfaction during TKA?

*Laura Scholl, MS, Mahwah, NJ*

12:48 pm – 12:52 pm Unexpected High Failure Rate in a Patient-Specific Total Knee Arthroplasty

*Kevin* *Park, MD, Houston Methodist Hospital*

12:52 pm – 12:56 pm Effect of Computer Navigation on Complication Rates Following Unicompartmental Knee Arthroplasty

*Deepak* *Chona, MD, Stanford University*

*\*Presented by Abiram Bala, MD*

12:56 pm – 1:00 pm Discussion

1:00 pm – 1:04 pm Vitamin D Is Associated with Higher Complication Rates in TKA

*Vishal* *Hegde, MD, University of California, Los Angeles*

1:04 pm – 1:08 pm Early Opioid Cessation and Patient Reported Outcomes in Primary TKA

*Andrew* *Summers, BS, Oregon Health & Science University*

*\*Presented by Jack Mazzulo, BA*

1:08 pm – 1:12 pm Tranexamic Acid with Limited Use Tourniquet in Total Knee Arthroplasty

*Avrey* *Novak, BS, University of Washington School of Medicine*

*\*Presented by Adam Sassoon, MD*

1:12 pm – 1:16 pm Aminocaproic Acid Versus Tranexamic Acid in Total Joint Arthroplasty. Whats Better?

*Zachary* *Lum, DO, University of California, Davis*

1:16 pm – 1:20 pm Discussion

1:20 pm – 1:24 pm Outcomes of a Unique Milling System Technique for Patellofemoral Arthroplasty

*Alexander Sah, MD, Institute for Joint Restoration*

1:24 pm – 1:28 pm Effect of Patellar Thickness on Gait Biomechanics Following Knee Arthroplasty

*Anne* *Wright, MD, University of Hawaii*

1:28 pm – 1:32 pm Addressing Large Tibial Osseous Defects in Primary Total Knee Arthroplasty Using Trabecular Metal Cones

*Jae* *You, MD, University of Hawaii*

1:32 pm – 1:36 pm Clinical Performance of a Novel 3D printed Cementless Tibial Baseplate

*Steven* *Harwin, MD, Mount Sinai Hospital*

*\*Presented by Manoshi Bhowmik-Stoker, PhD*

1:36 pm – 1:40 pm Discussion

**Rapid Fire Sessions 2D – Trauma/Hip Fractures**

**Moderators:** Geoffrey S. Marecek, MD, *Keck School of Medicine of the University of Southern California*

Julius A. Bishop, MD, *Stanford HealthCare*

12:40 pm – 12:44 pm Time-to-Block: Early Fascia Iliac Block Reduces Opioid Use in Geriatric Hip Fractures

*John* *Garlich, MD, Cedars Sinai Medical Center*

12:44 pm – 12:48 pm Geriatric Hip Fractures: Regional Anesthesia with Multimodal Pain Management

*John Garlich, MD, Cedars Sinai Medical Center*

12:48 pm – 12:52 pm Single-Shot versus Continuous Fascia Iliaca Blocks for Hip Fractures

*Stephen Stephan, MD, Cedars-Sinai Medical Center*

12:52 pm – 12:56 pm Fascia Iliacus Blocks Do Not Affect Hospital Length of Stay

*Landon* *Polakof, MD, Cedars-Sinai Medical Center*

12:56 pm – 1:00 pm Discussion

1:00 pm – 1:04 pm Determining Indications for Preoperative Fascia Iliac Nerve Block in Hip Fracture Patients

*Eytan Debbi, MD, PhD, Cedars Sinai Medical Center*

1:04 pm – 1:08 pm Fewer Fatal Fractures: Impact of Comprehensive Geriatric Hip Fracture Program on One-Year Mortality

*Jason Stoneback, MD, University of Colorado School of Medicine*

1:08 pm – 1:12 pm Predictors for 30-Day To One-Year Readmission Rates in a Geriatric Hip Fracture Population

*Samuel Stephenson, MD, PhD, Cedars Sinai Medical Center*

1:12 pm – 1:16 pm Impact of Interhospital Transfer on 30-Day Hip Fracture Outcomes

*David* *Campbell, MD, University of Arizona*

1:16 pm – 1:20 pm Discussion

1:20 pm – 1:24 pm Incidence and Risk Factors for Pneumonia in Hip Fractures

*Blake* *Eyberg, MD, University of Arizona College of Medicine*

1:24 pm – 1:28 pm Nail versus Plate: No Difference in Hip Fracture Episode Cost

*Joseph Patterson, MD, University of California San Francisco*

1:28 pm – 1:32 pm Hip Fracture Patients Receiving Perioperative TAVR Have Higher Complication Rates

*Dheeraj* *Yalamanchili, MD, Cedars-Sinai Medical Center*

1:32 pm – 1:36 pm Effect of Organ Transplantation on Operative Outcomes In Hip Fractures

*Bejan A.* *Alvandi, BS*, *Keck School of Medicine of the University of Southern California*

1:36 pm – 1:40 pm Discussion

1:40 pm – 2:40 pm **Scientific E-Poster Session** (Presenters are available to answer questions.)

**Resident Review Course**

Moderators: Jennifer van Warmerdam, MD, *St. Mary's Medical Center Total Joint Center*

1:45 pm – 2:15 pm An Examiners View Point – How to Prepare for Part 2 of the Orthopaedic Board

*Milton “Chip” Routt Jr., MD, University of Texas Health Science Center*

2:15 pm – 2:45 pm                            A Candidate’s Tips on How to Prepare for the Orthopaedic Board

*Speaker TBD*

2:45 pm – 3:30 pm How to Negotiate Your First Employment Contract

*Rosalyn Nguyen JD, MBA, The University of New Mexico*

3:30 pm – 4:00 pm              Job Panel:

                                                            Panel:              *Speakers TBD*

4:00 pm – 4:45 pm How to Find Your Niche and Build Your Brand

*Ryan M. Nunley, MD, Washington University School of Medicine*

4:45 pm – 5:00 pm                            Discussion

2:40 pm – 4:00 pm **Multimedia Education Session**

**Friday, August 3**

6:00 am – 7:00 am **Scientific E**-**Poster Session** (Presenters are available to answer questions.)

6:55 am – 7:00 am **Announcements**

*Jeffrey E. Krygier, MD, Program Chair*

**Symposium 3 – Adult Reconstruction: Why Knees Fail – Tips and Tricks to Avoid and Manage Complications**

**Moderator:** William J. Maloney, MD, *Stanford University School of Medicine*

7:00 am – 7:02 amIntroduction – Current Problems and Why TKA’s Fail Today

*William J. Maloney, MD, Stanford University School of Medicine*

7:02 am – 7:12 amWound Drainage and the Infected Knee

*Jay R. Lieberman, MD, Keck School of Medicine of the University of Southern California*

7:12 am – 7:22 amThe Unstable Knee

*Derek F. Amanatullah MD, PhD, Stanford University School of Medicine*

7:22 am – 7:32 amThe Stiff Total Knee

*William J. Maloney, MD, Stanford University School of Medicine*

7:32 am – 7:42 amRobotics and Total Knee Replacement – Has the Time Come?

*Russell G. Cohen, MD, Tucson Orthopaedic Institute*

7:42 am – 7:50 am                               Cases and Questions

7:50 am – 8:20 am **Focused Brunch Presentation**

Creating the Future with Mako Robotic-Arm Assisted Surgery

*C. Brian Blackwood, MD*

\*CME Credit Not Available

**Rapid Fire Sessions 3A – Pediatrics**

**Moderators:** Stephanie Y. Pun, MD, *Stanford University Medical Center*

Meghan Imrie, MD, *Stanford University Medical Center*

8:25 am – 8:29 am Weight-Bearing Osteochondritis Dissecans Lesions of the Knee: Two-Year Follow-Up Analysis

*Liang* *Zhou, MD, Tripler Army Medical Center*

8:29 am – 8:33 am Growth Arrest after Transphyseal ACL Reconstruction in Skeletally Immature Adolescents

*Thomas* *Melton, MD, Madigan Army Medical Center*

8:33 am – 8:37 am A Patellar Advancement Technique in Children with Patella Alta and Cerebral Palsy

*Jason Rhodes, MD, Children's Hospital Colorado*

8:37 am – 8:41 am Single versus Two Incision Technique for Treatment of Neuromuscular Hip Dysplasia

*Sara Van Nortwick, MD, Stanford University*

*\*Presented by Malcolm DeBaun, MD*

8:41 am – 8:45 am Discussion

8:45 am – 8:49 am Effects of Calcaneal Lengthening Osteotomy on Foot Progression Angle in Children with Cerebral Palsy

*Ryan* *Davenport, BS, University of Colorado School of Medicine*

8:49 am – 8:53 am Pediatric Dual X-Ray Absorptiometry (DXA) Scores Poorly Correlate with Vertebral Fractures

*Sara Van Nortwick, MD, Stanford University*

8:53 am – 8:57 am Are Hybrid Constructs an Effective Solution for AIS Patients?

*Eric Rebich, DO, Riverside University Health System*

*\*Presented by Hossein Aziz, DO*

8:57 am – 9:01 am Outcomes of Meniscus Repairs in Children and Adolescent

*Shawn* *Nguyen, DO, Riverside University of Health Sciences*

9:01 am – 9:05 am Discussion

**Rapid Fire Sessions 3B – Foot & Ankle/Ankle Injuries**

**Moderators:** Christopher B. Hirose, MD*, Saint Alphonsus Coughlin Foot and Ankle Clinic*

Kimberly L. Furry, MD, *Mercy Orthopedics Associates*

8:25 am – 8:29 am The Incidence of Plafond Impaction in Pronation-Abduction Ankle Fractures and the Role of Computed Tomography in Diagnosis and Surgical Planning

*Ram* *Alluri, MD, Keck School of Medicine of the University of Southern California*

8:29 am – 8:33 am Ankle Fractures: Ottawa Ankle Rules Need Geriatric Modifier

*Dave* *Weiner, MD, Union Memorial Hospital*

8:33 am – 8:37 am Predicting Risk of Complications in Diabetic Patients with Ankle Fractures

*Robin H. Dunn, MD, University of Colorado School of Medicine*

8:37 am – 8:41 am Quality and Utility of Immediate PACU Radiographs After Ankle Fractures

*Tony* *Pedri, MD, University of New Mexico*

*\*Presented by Matt Wharton, MD*

8:41 am – 8:45 am Discussion

8:45 am – 8:49 am Tibiotalar Pressure Mechanics After Instrumentation with Screws versus Suspensory Fixation

*Eric Pang, MD, Stanford University*

*\*Presented by Ariel Palanca, MD*

8:49 am – 8:53 am Cost-Effectiveness of Screw Versus Suture Button Fixation in Syndesmotic Injuries

*Duncan Ramsey, MD, MPH, Oregon Health & Science University*

8:53 am – 8:57 am Open Visualization versus Palpation for Reduction of the Syndesmosis

*Eric Pang, MD, Stanford University*

*\*Presented by Julius A. Bishop, MD*

8:57 am – 9:01 am Evaluating Current Treatment Strategies for Syndesmosis Injuries in Athletes

*Michael Reiter, MD, University of Colorado School of Medicine*

9:01 am – 9:05 am Discussion

**Rapid Fire Sessions 3C – Sports Medicine**

**Moderators:** Rachel M. Frank, MD*, University of Colorado School of Medicine*

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

8:25 am – 8:29 am Clinical and Radiographic Outcomes of a Novel Acromioclavicular-Coracoclavicular (AC/CC) Reconstruction

*Joseph Cooper, MD, Keck School of Medicine of the University of Southern California*

*\*Presented by Mary Kate Erdman, MD*

8:29 am – 8:33 am Biceps Tendon Tenodesis without Tenotomy: A Means of Augmenting Repair of Massive Rotator Cuff Tears

*Steven* *Barad, MD, Methodist Hospital*

8:33 am – 8:37 am Effect of Prior Bariatric and Transplant Surgery on Rotator Cuff Tears

*Anthony* *Essilfie, MD, University of Southern California*

8:37 am – 8:41 am Is Arthroscopy at Time of Medial Patellofemoral Ligament Reconstruction Necessary?

*Christopher Shultz, MD, University of New Mexico*

8:41 am – 8:45 am Discussion

8:45 am – 8:49 am Risk Factors for Early Revision Anterior Cruciate Ligament Reconstruction

*Matthew* *Gallo, BA, Keck School of Medicine of the University of Southern California*

*\*Presented by Kavitha Thiagarajan, BA*

8:49 am – 8:53 am Validation of PROMIS Computer Adaptive Testing for Multi-Ligament Knee Reconstruction

*Shane* *Korber, BS, Keck School of Medicine of the University of Southern California*

8:53 am – 8:57 am Are Orthopaedic Surgeons Performing Fewer Arthroscopic Partial Meniscectomies in Patients Greater than 50 Years Old? A National Database Study

*Hyunwoo* *Kang, MD, Keck School of Medicine of the University of Southern California*

8:57 am – 9:05 am Discussion

**Rapid Fire Sessions 3D – Trauma**

**Moderators:** Geoffrey S. Marecek, MD, *Keck School of Medicine of the University of Southern California*

Conor Kleweno, MD, *Harborview Medical Center*

8:25 am – 8:29 am The Super Elderly (≥80 Years Old) Do Not Have Higher Inpatient Morbidity Than Young Geriatric (65-79 Years Old) Pelvic Insufficiency Fractures

*Sean* *Rajaee, MD, Cedars-Sinai Medical Center*

*\*Presented by Milton Little, MD*

8:29 am – 8:33 am Retrospective Examination of Tension Band Plate Fixation in Transverse and Comminuted Patella Fractures

*Sean* *Mitchell, MD, University of Arizona College of Medicine Phoenix*

*\*Presented by John Martin, MD*

8:33 am – 8:37 am Patient-Reported Outcomes after Pelvic and Acetabular Fractures: A Preliminary Study

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

8:37 am – 8:41 am Outcomes of Femoral Head Fractures Associated with Traumatic Hip Dislocations

*Michael* *Del Core, MD, University of Texas Southwestern Medical Center*

*\*Presented by Stephen Blake Wallace, MD*

8:41 am – 8:45 am Discussion

8:45 am – 8:49 am Current Drug and Alcohol Use in Orthopedic Trauma Patients

*D'Ann* *Arthur, MD, Harbor-University of California Los Angeles Medical Center*

8:49 am – 8:53 am Surgical Delay Increases the Rate of 30 Day Complications and Mortality in Femoral Shaft Fractures

*Robert* *Walker, MD, University of Arizona College of Medicine*

*\*Presented by Ryan DiGiovanni, MD*

8:53 am – 8:57 am Location of Pelvic Ballistic Fracture and Associated Visceral Injuries

*Mary Kate Erdman, MD,* *University of Southern California*

8:57 am – 9:05 am Discussion

**Concurrent Allied Health Session 3 – Radiology**

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

8:25 am – 9:25 amImaging of the Wrist and Hand

*Andrew Sonin, MD, FACR, Radiology Imaging Associates, PC*

9:05 am – 9:25 am  ***Break – Please Visit Exhibits***

**General Session 3 – AAOS Report & Presidential Guest Speaker**

**Moderator:** Brian A. Jewett, MD, *Slocum Center for Orthopedics and Sports Medicine*

9:25 am – 9:40 am AAOS Report

*David A. Halsey, MD, President*

9:40 am – 9:45 am Introduction of Presidential Guest Speaker

*Brian A. Jewett, MD, Slocum Center for Orthopedics and Sports Medicine*

9:45 am – 10:35 amPresidential Guest Speaker

Succeeding in the Brave New/Old World: Facts Are Stubborn Things!

*Nathan S. Kaufman, Kaufman Strategic Advisors*

*10:35 am – 10:55 am*  ***Break – Please Visit Exhibits***

**Symposium 4 – Orthopaedic Business**

**Moderator:** Michael J. McCaslin, CPA, *Somerset CPA and Advisors*

10:55 am – 11:10 am Orthopaedic Business in 2018

*Michael J. McCaslin, CPA, Somerset CPAs and Advisors*

11:10 am – 11:25 amAdvanced Payment Models and Hospital Relations

*Nathan S. Kaufman, Kaufman Strategic Advisors*

11:25 am – 11:40 am Orthopedic Urgent Cares

*Brian A. Jewett, MD, Slocum Center for Orthopedics and Sports Medicine*

11:40 am – 11:45 am Discussion

11:45 am – 12:15 pm **Focused Lunch Presentation**

\*CME Credit Not Available

**General Session 4 – WOF Report &** **Western Orthopaedic Foundation Named** **Grants**

**Moderator:** Jeffrey E. Krygier, MD, *Santa Clara Valley Medical Center*

12:15 pm – 12:25 pm WOF Report

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

12:25 pm – 12:31 pm **WOF Robert R. Slater, Jr., MD Travel Grant**

Complications in Computer Navigated versus Conventional Total Hip Arthroplasty

*Blake* *Montgomery, MD, Stanford University*

12:31 pm – 12:37 pm **WOF Brian A. Jewett, MD Travel Grant**

Application of Patient-Reported Outcome Measurement Information System in Elite Athletes

*Jesse Roberts, MD, University of Colorado*

12:37 pm – 12:43 pm **WOF Jeffrey E. Krygier, MD Travel Grant**

A Preoperative Score for Predicting 30-Day Readmission after Elective 1-2 Level Posterior Lumbar Spinal Fusion

*Joseph Patterson, MD,* *University of California**, San Francisco*

12:43 pm – 12:49 pm **WOF Jeffrey M. Nakano, MD Travel Grant**

Efficacy of a Team-Based Approach to Improving Antibiotic Administration in Open Fractures

*Alvin Shieh, MD,* *University of California Davis*

12:49 pm – 12:55 pm **WOF Paul C. Collins, MD Travel Grant**

The Influence of an Unexpected Gift on Patient Satisfaction

*Allison Roe, MD, Stanford University*

12:55 pm – 1:01 pm **WOF Basil R. Besh, MD Travel Grant**

Timing Of Lumbar Spinal Fusion Impacts Total Hip Arthroplasty Outcomes

*Abiram* *Bala, MD, Stanford University*

1:01 pm – 1:07 pm **WOF Milton L. “Chip” Routt, Jr., MD Travel Grant**

Mouse Spine Implant Infection Model: Fluorescent Probe Detects Multiple Bacteria

*Gideon* *Blumstein, MD, MS,* *University of California Los Angeles*

1:07 pm – 1:13 pm **WOF** **Nitin N. Bhatia, MD Travel Grant**

Smoking and Total Hip Arthroplasty in 2014: Increased Complications and Costs

*Eytan* *Debbi, MD, PhD, Cedars Sinai Medical Center*

1:13 pm – 1:20 pm Discussion

**Rapid Fire Sessions 4A –** **Basic Science**

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

Jeffrey E. Krygier, MD, *Santa Clara Valley Medical Center*

1:25 pm – 1:29 pm Local Delivery of Supplemental Agrin Prevents Motor Endplate Degradation

*Winnie* *Palispis, MD, University of California, Irvine*

1:29 pm – 1:33 pm hES-Pericyte Conditioned Media Rescue Myotube Atrophy In Vitro

*Regina* *Husman, BS, David Geffen School of Medicine at* *University of California Los Angeles*

1:33 pm – 1:37 pm Differentially Expressed Micro-RNA in Rotator Cuff Tendinopathy Using RNA-Sequencing

*Kimberly* *Hall, MD, Stanford Hospital and Clinics*

1:37 pm – 1:41 pm Accuracy of 3D Printed Bone Models Using Open Source Software

*Trevor Shelton, MD, MS, University of California, Davis*

1:41 pm – 1:45 pm Discussion

1:45 pm – 1:49 pm Anti-Inflammatory Peptide Enhances New Bone Formation and Reduces Inflammation in Rhbmp-2-Mediated Spine Fusion

*Phillip* *Behrens, MD, Cedars-Sinai Medical Center*

1:49 pm – 1:53 pm Characterization of Stable and Endochondral Human Articular Cartilage Progenitor Cells

*Phillip* *Lam, BS, Oregon Health & Science University*

1:53 pm – 1:57 pm Mouse Spine Implant Infection Model: Fluorescent Probe Detects Multiple Bacteria

*Gideon Blumstein, MD, MS, University of California Los Angeles*

1:57 pm – 2:01 pm “Smart” Pedicle Probe for Residency Motor Skills Evaluation and Training

*Christina Salas, PhD, University of New Mexico*

*\*Presented by Deana Mercer, MD*

2:01 pm – 2:05 pm Discussion

2:05 pm – 2:09 pm Masquelet Model to Evaluate Engineered Induced Membranes for Bone Healing

*Malcolm* *DeBaun, MD, Stanford University*

2:09 pm – 2:13 pm Toward Translational Treatments: A Novel Model of Revision Arthroplasty

*Zachary D.C.* *Burke, MD, David Geffen School of Medicine at* *University of California Los Angeles*

2:13 pm – 2:17 pm Single-Stage Revision with Tobramycin-Loaded Polymethylmethacrylate is Ineffective in Periprosthetic Infection Model

*Zachary D.C. Burke, MD, David Geffen School of Medicine at* *University of California Los Angeles*

2:17 pm – 2:21 pm Greater Muscle Degeneration in Aged Mice after Rotator Cuff Injury

*Abhinav Sharma, BS,* *David Geffen School of Medicine at* *University of California Los Angeles*

2:21 pm – 2:25 pm Discussion

**Rapid Fire Sessions 4B –** **Sports Medicine**

**Moderators:** Rachel M. Frank, MD*, University of Colorado School of Medicine*

COL (Ret) Edward D. Arrington, MD, *Madigan Army Medical Center*

1:25 pm – 1:29 pm Fixed-versus Adjustable-Loop Devices for ACLR: A Systematic Review and Meta-Analysis

*Darby A. Houck, BA, University of Colorado School of Medicine*

1:29 pm – 1:33 pm New Biomechanical Testing Standards for Adjustable Femoral Cortical Suspension Devices

*Alexander* *Peterson, MD, Tibor Rubin Long Beach VA Medical Center*

1:33 pm – 1:37 pm Estimating the Length of Semitendinosus and Gracilis Tendons by MRI

*Ali* *Qadeer, MD, Baylor College of Medicine*

1:37 pm – 1:41 pm ACL and ATSF Injury Epidemiology and Risk Factors in Skiers

*Benjamin* *Albertson, MD, University of New Mexico*

1:41 pm – 1:45 pm Discussion

1:45 pm – 1:49 pm Supplementation of Vitamin D in Division I NCAA Athletes

*Shane Korber, BS, Keck School of Medicine of the University of Southern California*

1:49 pm – 1:53 pm Early Return from Concussion Associated with Increased Injury in Athletes

*Garrett* *Harada, BA,* *David Geffen School of Medicine at* *the* *University of California Los Angeles*

1:53 pm – 1:57 pm The Epidemiology of Concussions in a NCAA Division I Female Soccer Team

*Santano Rosario, BA, Keck School of Medicine of the University of Southern California*

*\*Presented by Shane Korber, BS*

1:57 pm – 2:01 pm Effect of Artificial Turf versus Natural Grass on Knee Injuries in NCAA Football: Ten Year Report

*Galvin* *Loughran, BS, Georgetown University School of Medicine*

2:01 pm – 2:05 pm Discussion

2:05 pm – 2:09 pm Division I Collegiate Athletes Have a High Return-to-Sport Rate Following Hip Arthroscopy for Femoroacetabular Impingement Syndrome

*Haley* *Nakata, BS, Keck School of Medicine of the University of Southern California*

*\*Presented by Omid Jalali, BS*

2:09 pm – 2:13 pm Factors Determining Safe Return to Driving after Hip Arthroscopy

*Mika* *De Coster, BS, Keck School of Medicine of the University of Southern California*

2:13 pm – 2:17 pm Incidence and Management of Heterotopic Ossification Following Arthroscopic Hip Surgery

*Michael* *Huang, MD, Colorado Springs Orthopaedic Group*

2:17 pm – 2:25 pm Discussion

**Rapid Fire Sessions 4C –** **Trauma**

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

Jonathan Eastman, MD, *University of California, Davis*

1:25 pm – 1:29 pm Which Trauma Patients Need Psychiatry Consultation?: A Pilot Survey Study

*Sean Campbell, MD, Stanford University*

1:29 pm – 1:33 pm Blade Plating of High-Energy Proximal Femur Fractures Results in Union and Minimal Complications

*Matthew* *Weldon, MD, University of Texas at Houston*

*\*Presented by Timothy S. Achor, MD*

1:33 pm – 1:37 pm Does Screw Location Affect the Risk of Subtrochanteric Femur Fracture after Femoral Neck Fixation?

*Erica* *Crump, MD, Naval Medical Center San Diego*

1:37 pm – 1:41 pm Are Piriformis Reconstruction Nails Ideal for Prophylactic Femoral Neck Fixation?

*Alvin Shieh, MD, University of California, Davis*

1:41 pm – 1:45 pm Discussion

1:45 pm – 1:49 pm Management of Aseptic Pertrochanteric Femoral Fracture Nonunions

*Michael* *Duran, MD, University of Arizona College of Medicine*

1:49 pm – 1:53 pm Healing the Index Humeral Nonunion Surgery

*Donald* *Wiss, MD, Cedars Sinai Medical Center*

*\*Presented by John Garlich, MD*

1:53 pm – 1:57 pm Cost of Fracture Nonunions: A NIS Analysis

*Hanne* *Gehling, BS, Providence Orthopedic Institute*

1:57 pm – 2:01 pm Clavicle Nonunions: Plate and Graft Type Do Not Effect Healing Rates

*Donald Wiss, MD,* *Cedars Sinai Medical Center*

*\*Presented by John Garlich, MD*

2:01 pm – 2:05 pm Discussion

2:05 pm – 2:09 pm Regional Anesthesia Decreases Length of Stay in Tibial Shaft Fractures

*Ryan* *DiGiovanni, MD, Banner University Medical Center*

*\*Presented by Michael Duran, MD*

2:09 pm – 2:13 pm Outcomes and Complications of SIGN Intramedullary Nailing of the Tibia

*Nikolas* *Baksh, MD, Oregon Health & Science University*

2:13 pm – 2:17 pm Flexed versus Semi-Extended Positioning for Tibial Nailing: Changing Practice Patterns

*Lawrence* *Goodnough, MD, PhD, Stanford University*

*\*Presented by Brian Karamian, MD*

2:17 pm – 2:21 pm Infection Rates of Low-Velocity Gunshot Femur Fractures Treated without Debridement

*Jessica* *Bear, MD, Hospital for Special Surgery*

2:21 pm – 2:25 pm Discussion

**Rapid Fire Sessions 4D –** **Total Joint**

**Moderators:** Derek F. Amanatullah MD, PhD*, Stanford University School of Medicine*

Kathryn L. Schabel, MD, *Oregon Health & Science University*

1:25 pm – 1:29 pm Insurance Status Predicts Morbidity, Mortality, and Cost in Revision Total Joint Arthroplasty

*Blake Eyberg, MD, University of Arizona College of Medicine*

1:29 pm – 1:33 pm Use of a 2D/3D Registration Method to Evaluate the Psoas Impingement in Total Hip Arthroplasty

*Ahmad* *Faizan, PhD, Mahwah, NJ*

*\*Presented by Laura Scholl, MS*

1:33 pm – 1:37 pm Mortality during Total Hip Periprosthetic Joint Infection: A Meta-Analysis

*Zachary Lum, DO, University of California, Davis*

1:37 pm – 1:41 pm Immediate Impact of Tranexamic Acid in Blood Conservation in Primary Total Joint Replacement

*Alexander Sah, MD, Institute for Joint Restoration*

1:41 pm – 1:45 pm Discussion

1:45 pm – 1:49 pm A Comparison of Traumatic Hip Fracture & Primary Elective Total Hip Patients: Comorbidity Burden, Hospital Course, Postoperative Complications and Cost of Care Analysis

*Sean Mitchell, MD, University of Arizona College of Medicine Phoenix*

*\*Presented by Jason Lowe, MD*

1:49 pm – 1:53 pm Same Day Total Hip Arthroplasty at an Ambulatory Surgical Center versus a Hospital: Similar Results at Lower Cost

*Hanne Gehling, BS,* *Providence Orthopedic Institute*

1:53 pm – 1:57 pm Isolated Greater Trochanteric Fracture and the Direct Anterior Approach Using a Fracture Table

*Bradley* *Graw, MD, Palo Alto Medical Foundation*

1:57 pm – 2:01 pm An In-Vitro Comparative Assessment of Acetabular Cup Removal Systems

*Louis* *Kwong, MD,* *Harbor-University of California Los Angeles Medical Center*

2:01 pm – 2:05 pm Discussion

2:05 pm – 2:09 pm Mortality during Total Knee Periprosthetic Joint Infection: A Meta Analysis

*Zachary Lum, DO, University of California, Davis*

2:09 pm – 2:13 pm Conversion Rates and Timing to Total Knee Arthroplasty Following ACL Reconstruction: A United States Population-Based Study

*Jacob* *Bobman, MD, Keck School of Medicine of the University of Southern California*

2:13 pm – 2:17 pm Bilateral Simultaneous versus Staged Total Knee Arthroplasty: Minimal Perioperative Risk-Differences

*Ellen* *Tsay, BS, MS, University of California, San Francisco*

2:17 pm – 2:21 pm Distal Femur Locking Plates Fit Poorly after Total Knee Arthroplasty

*Sean Campbell, MD, Stanford University*

2:21 pm – 2:25 pm Discussion

2:25 pm – 3:25 pm **Scientific E-Poster Tour**

**Moderators:** Jeffrey E. Krygier, MD, *Santa Clara Valley Medical Center*

Julius A. Bishop, MD, *Stanford HealthCare*

3:25 pm – 4:25 pm **Multimedia Education Session**

**Saturday, August 4**

5:40 am – 6:40 am **Scientific E-Poster Session** (Presenters are available to answer questions.)

6:40 am – 6:45 am **Announcements**

*Jeffrey E. Krygier, MD, Program Chair*

6:45 am – 7:00 am **Second Business Meeting**

**General Session 5 – WOF Resident Awards**

**Moderator:** Jeffrey E. Krygier, MD, *Santa Clara Valley Medical Center*

7:00 am – 7:06 am Influence of Capsular Laxity and Labral Integrity on Hip Stability

*Adam* *Johannsen, MD,* *Stanford University*

7:06 am – 7:12 am C1-C3 Construct with Short C2 Pedicle Screws versus Goel-Harms Fixation

*Young Lu, MD,* *University of California, Irvine*

7:12 am – 7:18 am When is an Orthopaedic Intern Ready to Take Call?

*Trevor Barronian, MD, Oregon Health & Science University*

7:18 am – 7:24 am Comparing AHD Between MRI and X-Ray in Massive Cuff Tears

*Steven* *Donohoe, MD, Keck School of Medicine of the University of Southern California*

7:24 am – 7:30 am Innervation of the Subscapularis: An Anatomical Study

*Brian* *Sager, MD,* *University of Texas Southwestern*

7:30 am – 7:36 am Pre-Operative CT Can Predict Post-Operative Shortening of Extra-Capsular Hip Fractures

*Garin Hecht, MD, Harborview Medical Center*

7:36 am – 7:42 am Intramedullary Nailing Versus Lateral Locked Plating for Distal Femur Fractures

*K. Chandra* *Vemulapalli, MD, University of Texas Health McGovern Medical School*

7:42 am – 7:50 am Discussion

**Symposium 5 – Trauma**

**Moderator:** Timothy S. Achor, MD, *Memorial Hermann Texas Medical Center*

7:50 am – 8:02 am How to Avoid Non-Unions

*Alexandra K. Schwartz, MD, University of California, San Diego*

8:02 am – 8:14 am Healthcare Finance and Trauma Coding

*Timothy J. Bray, MD, Reno Orthopedic Clinic*

8:14 am – 8:26 am Humeral Shaft Fractures: What’s Current? What’s

Controversial?

*Clifford B. Jones, MD, The CORE Institute*

8:26 am – 8:36 am Case Discussion

8:36 am – 8:40 am Discussion

8:40 am – 9:10 am**Focused Brunch Presentation**

\*CME Credit Not Available

**Rapid Fire Sessions 5A – Tumor**

**Moderators:** Russ N. Stitzlein, MD, *MD Anderson Cancer Center*

Bryan S. Moon, MD, *MD Anderson Cancer Center*

9:15 am – 9:19 am Distal Femoral Compressive Osseointegration Endoprostheses: A Minimum Ten-Year Follow-Up Study

*Kara* *Tanaka, MFA, University of California, San Francisco*

9:19 am – 9:23 am Compress Mechanical Failure Assessment Using Radiographic Parameter Driven Decision Tree

*Lindsay* *Parlee, BS, Med, Oregon Health & Science University*

9:23 am – 9:27 am Vascularized Fibula Grafting in the Operative Treatment of Bone Tumors

*Mark* *Landau, PhD, Keck School of Medicine of the University of Southern California*

*\*Presented by Kiran Alluri, MD*

9:27 am – 9:31 am Incidence of Amputees Who Could Benefit From an Osseointegrated Prosthesis

*Melissa* *Zimel, MD, University of California, San Francisco*

9:31 am – 9:35 am Discussion

9:35 am – 9:39 am Outcomes of Reamer Irrigator Aspirator in Metastatic Femoral Intramedullary Nails

*Alexandra* *Callan, MD, University of Texas Southwestern Medical Center*

9: 39 am – 9:43 am PROMIS Outcomes Following Surgical Intervention for Metastatic Bone Disease: Analysis of Early Enrollment in a Multicenter Cohort Study

*Daniel* *Lerman, MD, Institute Limb Preservation, OrthoONE, Presbyterian/St. Luke's Medical Center*

9:43 am – 9:47 am Pattern of Radiation Referral after Femoral Stabilization in Metastatic Disease

*Andrew Summers, BS, Oregon Health & Science University*

*\*Presented by David Putnam, MD*

9:47 am – 9:51 am Host Immune Response in Undifferentiated Pleomorphic Sarcoma – Ten-Year Retrospective Analysis

*Joey Sheridan, BS, University of California, San Francisco*

9:51 am – 9:55 am Discussion

**Rapid Fire Sessions 5B – Upper Extremity/Shoulder**

**Moderators:** Kimberly L. Furry, MD, *Mercy Orthopedics Associates*

Jeffrey M. Nakano, MD, *Rocky Mountain Orthopaedic Associates*

9:15 am – 9:19 am Utility for Radiographs in Diagnosing Hill-Sachs and Bankart Lesions: NO NEED Pre-Reduction Radiology

*Dave* *Milzman, MD, George Washington School of Medicine*

9:19 am – 9:23 am Intraoperative Clavicle Fracture Characterization and Radiographic Outcomes after Operative Fixation

*Nicholas J. Drayer, MD, Madigan Army Medical Center*

*\*Presented by Michelle L Dudevoir, MD*

9:23 am – 9:27 am Effect of Pre-Operative Opioid Usage on Pain Following Arthroplasty

*William* *Curtis, BS, Keck School of Medicine of the University of Southern California*

*\*Presented by Ryan Lee, BS*

9:27 am –9:35 am Discussion

9:35 am – 9:39 am Vascularized Dermal Autograft for the Treatment of Irreparable Rotator Cuff Tears

*Michael Stone, MD, Keck School of Medicine of the University of Southern California*

9: 39 am – 9:43 am Axillary and Radial Nerve Proximity to Latissimus Insertion: A Cadaveric Study

*Stephen Gates, MD, University of Texas Southwestern*

9:43 am –9:55 am Discussion

**Rapid Fire Sessions 5C – Trauma**

**Moderators:** Timothy S. Achor, MD, *Memorial Hermann Texas Medical Center*

Milton “Chip” Routt Jr., MD, *University of Texas Health Science Center*

9:15 am – 9:19 am Percutaneous Transiliac-Transsacral Fixation of Sacral Insufficiency Fractures Improves Ambulation and Rate of Disposition to Home

*J. Brock* *Walker, MD, University of Arizona College of Medicine*

9:19 am – 9:23 am Superior Pubic Ramus Screw Fixation: Radiographic Assessment of Successful Medullary Screw Insertion

*Brock* *Foster, MD, University of Southern California*

*\*Presented by Venus Vakhshori, MD*

9:23 am – 9:27 am Safety of Medullary Superior Pubic Ramus Screws

*James* *Learned, MD, University of California Irvine Medical Center*

9:27 am – 9:31 am A Biomechanical Study of Three Methods of Fixing Acetabular Fractures

*Weston* *Ryan, BS, University of Colorado Denver School of Medicine*

9:31 am – 9:35 am Discussion

9:35 am – 9:39 am Restoring Condylar Width: Radiographic Relationship Between The Lateral Tibial Plateau and Lateral Femoral Condyle in Normal Adult Knees

*Nima* *Kabirian, MD, University of Southern California*

9: 39 am – 9:43 am Lateral Articular Involvement in Tibial Plateau Schatzker Type IV Fractures

*Mary Kate Erdman, MD,* *University of Southern California*

9:43 am – 9:47 am Heterotopic Ossification About the Knee in Floating Knee Injuries

*Trevor Shelton, MD, MS, University of California, Davis*

9:47 am – 9:51 am Evaluation of Lateral C-Arm Drape Contamination during Lower Extremity Fracture Surgery: A Prospective Pilot Study

*Erin* *Haggerty, MD, Cedars Sinai Medical Center*

9:51 am – 9:55 am Discussion

**Rapid Fire Sessions 5D – Sports Medicine**

**Moderators:** CAPT Matthew T. Provencher, MD*, The Steadman Clinic*

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

9:15 am – 9:19 am Fists of Fury but No Fractures : Fighting in the National Hockey League

*Aidan* *Neustadtyl, BS, Georgetown University*

9:19 am – 9:23 am Prevalence and Treatment of Humeral Head Avascular Necrosis in Transplant and Bariatric Surgery Patients: A Population-Based Study

*Kavitha* *Thiagarajan, BA, Keck School of Medicine of the University of Southern California*

9:23 am – 9:27 am Characterization of Metal Debris From Refurbished Arthroscopic Shavers

*Louis Kwong, MD,* *Harbor-University of California Los Angeles Medical Center*

9:27 am – 9:31 am Treatment Injections for Lateral Epicondylitis: A Systematic Review of Overlapping Meta-Analyses

*Darby A. Houck, BA, University of Colorado School of Medicine*

9:31 am – 9:35 am Discussion

9:35 am – 9:39 am Pediatric and Adolescent Injury in Rodeo: A Systematic Review

*Jason Stoneback, MD, University of Colorado School of Medicine*

9: 39 am – 9:43 am Measurements of Femoroacetabular Impingement Reliable across Various Levels of Training

*Ryan* *J. Bickley, MD, Johns Hopkins University School of Medicine*

9:43 am – 9:47 am Evaluation of Preoperative Diagnostic and Treatment Costs Prior to Articular Cartilage Restoration Surgery

*Brenda* *Iglesias, BA, David Geffen School of Medicine at University of California Los Angeles/Charles Drew University of Medicine and Science*

9:47 am – 9:51 am Comparison of Injury Rate and Pattern of Collegiate Beach and Indoor Volleyball

*Alexis Rounds, BS, Keck School of Medicine at the University of Southern California*

9:51 am – 9:55 am Discussion

9:55 am – 10:20 am ***Break – Please Visit Exhibits***

**Symposium 6 – Foot & Ankle – Acute Injuries to the Foot & Ankle**

**Moderator:** Kenneth J. Hunt, MD, *University of Colorado School of Medicine*

10:20 am – 10:30 am Syndesmotic Injuries

*Daniel L. Moon, MD, University of Colorado School of Medicine*

10:30 am – 10:40 am Lateral Ankle Ligament Injuries

*Kenneth J. Hunt, MD, University of Colorado School of Medicine*

10:40 am – 10:50 am Achilles Tendon Injuries

*Douglas E. Lucas, DO, Centura Health Physician Group*

10:50 am – 11:00 am Backcountry Ankle Trauma

*Christopher B. Hirose, MD, Saint Alphonsus Coughlin Foot and Ankle Clinic*

11:00 am – 11:08 am Case Discussion

11:08 am – 11:10 am Questions

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

**Moderator**: Jeffrey E. Krygier, MD, *Santa Clara Valley Medical Center*

11:10 am – 11:20 am Own the Bone

*Fred C. Redfern, MD, Henderson, NV*

11:20 am – 11:25 am BOC Report

*Bryan S. Moon, MD, MD Anderson Cancer Center*

11:25 am – 11:40 am Presidential Address

The WOA and YOU

*Brian A. Jewett, MD, Slocum Center for Orthopedics and Sports Medicine*

**Concurrent Allied Health Session 4 – Case Review**

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

11:45 am – 12:45 pmBring Your Cases to Discuss

*Basil R. Besh, MD, Fremont Orthopaedic & Rehabilitative Medicine*

**Rapid Fire Session 6A –** **Foot & Ankle**

**Moderators:** Kenneth J. Hunt, MD, *University of Colorado School of Medicine*

Jeffrey M. Nakano, MD, *Rocky Mountain Orthopaedic Associates*

11:45 am – 11:49 am Short Term Complications in Geriatric Ankle Fractures Using a Protocolized Approach to Surgical Treatment

*Gerard* *Chang, MD, Thomas Jefferson University Hospital*

11:49 am – 11:53 am Impact of Time to Surgery for Closed Supination External Rotation (OTA/AO 44-B) Ankle Fractures

*Anthony Essilfie, MD, University of Southern California*

*\*Presented by Matthew Orgel, MD*

11:53 am – 11:57 am Examining Outcomes of Percutaneous Ankle Fixation in Diabetic Patients

*Sean Mitchell, MD, University of Arizona College of Medicine Phoenix*

*\*Presented by John Martin, MD*

11:57 am – 12:01 pm Diagnostic Validation of Dynamic Ultrasound Evaluation of Supination-External Rotation Ankle Injuries

*Cara* *Fisher, MS, University of North Texas Health Science Center*

12:01 pm – 12:05 pm Discussion

12:05 pm – 12:09 pm Dual Purpose Use of FHL Tendon for Management of Chronic Achilles Ruptures

*Mohammed* *Khalid, MD, University of Texas Medical Branch*

12:09 pm – 12:13 pm All-Soft Suture Anchor versus Suture Bridge Construct For Insertional Achilles Tendon Repairs

*Eric* *Lakey, BS, University of Colorado School of Medicine*

12:13 pm – 12:17 pm Achilles Sleeve Avulsions: Clinical Features Including Description of a New Radiographic Sign

*Christopher Shultz, MD,* *University of New Mexico*

12:17 pm – 12:21 pm Gender Differences on SF-36 Patient-Reported Outcomes of Diabetic Foot Disease

*Michael Del Core, MD,* *University of Texas Southwestern Medical Center*

12:21 pm – 12:25 pm Discussion

12:25 pm – 12:29 pm A Comparison of Calcaneal Osteotomies for Charcot-Marie-Tooth Varus Hindfoot Deformity

*Tonya* *An, MD, MA, Cedars-Sinai*

12:29 pm – 12:33 pm Radiological Assessment of Sesamoid Reduction after Chevron-Akin Double Osteotomy

*Jie* *Chen, MD, MPH, University of Texas Medical Branch*

12:33 pm – 12:37 pm Arthroscopic versus Open MTP Arthrodesis: A Biomechanical Comparison

*Christopher Chen, MD,* *University of Colorado*

12:37 pm – 12:41 pm The Influence of Percentile Weight Bearing on Foot Radiographs

*Trevor Shelton, MD, MS, University of California, Davis*

12:41 pm – 12:45 pm Discussion

**Rapid Fire Session 6B –** **Spine**

**Moderators:** P. Douglas Kiester, MD, *University of California, Irvine*

Jeffrey E. Krygier, MD, *Santa Clara Valley Medical Center*

11:45 am – 11:49 am Lumbar Subcutaneous Adipose to Spinous Process Depth Ratio as a Predictor for Surgical Complications

*Kylie Shaw, BA,* *David Geffen School of Medicine at* *University of California Los Angeles*

11:49 am – 11:53 am Risk Factors for Readmission and Complications in Obese and Morbidly Obese Patients Undergoing Elective Posterior Spinal Fusion

*Deeptee* *Jain, MD, University of California, San Francisco*

*\*Presented by Joseph Patterson, MD*

11:53 am – 11:57 am Complications of Modified Single-incision Wiltse Approach to the Lumbar Spine

*Nikolas Baksh, MD, Oregon Health & Science University*

11:57 am – 12:01 pm A “Smart” Antimicrobial Implant Coating to Prevent Spinal Implant Infection

*Vishal Hegde, MD, University of California, Los Angeles*

12:01 pm – 12:05 pm Discussion

12:05 pm – 12:09 pm Rapid Recovery Pathway for the Adolescent Idiopathic Scoliosis

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

12:09 pm – 12:13 pm Preemptive Opioid-Sparing Pain Protocol Decreases Hospital Stay in Scoliosis Patients

*Selina Poon, MD, Shriners for Children Medical Center, Pasadena*

*\*Presented by Cynthia Nguyen, MD*

12:13 pm – 12:17 pm Complications Associated with Temporary Internal Distraction in Severe Scoliosis

*Graham T.* *Fedorak, MD, Shriners Hospital for Children, Salt Lake City*

12:17 pm – 12:21 pm Outcomes after Spinal Fusion in Patients with Obstructive Sleep Apnea

*Charles* *Lin, BSE, University of California, Irvine*

*\*Presented by Young Lu, MD*

12:21 pm – 12:25 pm Discussion

12:25 pm – 12:29 pm Surgical Intervention for Cauda Equina in the Second and Third Trimesters of Pregnancy: A Case Series

*Nicole* *Look, MD, University of Colorado Anschutz Medical Center*

12:29 pm – 12:33 pm Insurance and Employment Affect the Presence of Waddell Signs

*Stephanie* *Radoslovich, BA, Oregon Health & Science University*

12:33 pm – 12:37 pm Construct Validity of the Fundamentals of Spinal Surgery (FOSS) Simulator

*Winnie Palispis, MD, University of California, Irvine*

12:37 pm – 12:45 pm Discussion

**Rapid Fire Session 6C –** **Trauma**

**Moderators:** Clifford B. Jones, MD*, The CORE Institute*

Conor Kleweno, MD, *Harborview Medical Center*

11:45 am – 11:49 am Greater Trochanteric Fractures with lntertrochanteric Extension: What Is the Rate of Displacement?

*William* *Kent, MD, University of California, San Diego*

11:49 am – 11:53 am Kinematic Analysis of Sagittal Plane Stability of Delta Frame External Fixation

*Addison* *Wood, DO, PhD, John Peter Smith Hospital*

11:53 am – 11:57 am Current Trends in the Management of Flail Chest

*J. Brock Walker, MD, University of Arizona College of Medicine*

11:57 am – 12:01 pm Diagnosis of Traumatic Shoulder Arthrotomies Using Saline Load Test with Intra-Articular Pressure Monitoring

*Matthew* *Belton, MD, University of Colorado School of Medicine*

12:01 pm – 12:05 pm Discussion

12:05 pm – 12:09 pm Orthopaedic Trauma Quality Measures for Value Based Healthcare Delivery

*Malcolm DeBaun, MD, Stanford University*

12:09 pm – 12:13 pm VTE Occurences in Pelvic & Lower Extremity Trauma Despite Modern Prophylactic Protocols

*Sean Mitchell, MD, University of Arizona College of Medicine Phoenix*

*\*Presented by Jason Lowe, MD*

12:13 pm – 12:17 pm Prolonged Opioid Use Following Geriatric Hip Fracture Surgery

*John Garlich, MD, Cedars Sinai Medical Center*

12:17 pm – 12:21 pm Dramatically Increased Rate of Mortality Associated with Atypical Hip Fractures

*Robert Walker, MD, University of Arizona College of Medicine*

12:21 pm – 12:25 pm Discussion

12:25 pm – 12:29 pm Current Trends in Postoperative Opioid Prescriptions after Ankle Fracture Surgery

*Michael Chen, MD, Stanford Univesity*

12:29 pm – 12:33 pm Early Post-Operative Radiographs Have No Effect On Patient Satisfaction

*Blake Schultz, MD, Stanford University*

12:33 pm – 12:37 pm X-Ray Does Not Adequately Assess Intertrochanteric Fracture Lateral Wall Morphology

*Garin* *Hecht, MD, Harborview Medical Center*

*\*Presented by Augustine Saiz, MD*

12:37 pm – 12:45 pm Discussion

**Rapid Fire Session 6D –** **Upper Extremity/ Shoulder & Elbow**

**Moderators:** COL (Ret) Edward D. Arrington, MD, *Madigan Army Medical Center*

Kimberly L. Furry, MD, *Mercy Orthopedics Associates*

11:45 am – 11:49 am Short-Term Outcomes of Outpatient Total Shoulder Arthroplasty Protocol

*Richard* *Auran, MD, University of Arizona College of Medicine - Phoenix*

11:49 am – 11:53 am Socioeconomic and Ethnic Disparities in Pain Following Total Shoulder Arthroplasty

*Alexis Rounds, BS, Keck School of Medicine at the University of Southern California*

11:53 am – 11:57 am Patient-Specific Planning in Shoulder Arthroplasty: Bending the Learning Curve

*Henry* *Fox, MA, Oregon Health & Science University*

11:57 am – 12:01 pm Smoking as a Risk Factor for Complications Following Shoulder Arthroplasty: A Population-Based Study

*Jae* *Kim, MA, Keck School of Medicine of the University of Southern California*

*\*Presented by Alexis Rounds, BS*

12:01 pm – 12:05 pm Discussion

12:05 pm – 12:09 pm 90-Day Complication Rate following Shoulder Arthroplasty in a Veteran Population

*Farhad* *Darbandi, MD, University of Arizona*

12:09 pm – 12:13 pm Complication of Reverse Shoulder Arthroplasty for Proximal Humerus Fracture

*Santano* *Rosario, BA, Keck School of Medicine at the University of Southern California*

*\*Presented by Alexis Rounds, BS*

12:13 pm – 12:17 pm Hypoalbuminemia Is a Risk Factor for Both Complications and Readmissions after Open Reduction and Internal Fixation of Proximal Humerus Fractures

*Jonathan* *Cheah, MD,* *University of California, San Francisco*

12:17 pm – 12:21 pm Survivorship of Proximal Humerus Fracture Initial Management

*Alexis* *Rounds, BS, Keck School of Medicine at the University of Southern California*

12:21 pm – 12:25 pm Discussion

12:25 pm – 12:29 pm Trends of Initial Management Following Proximal Humerus Fracture

*Santano Rosario, BA, Keck School of Medicine at the University of Southern California*

*\*Presented by Alexis Rounds, BS*

12:29 pm – 12:33 pm Outpatient Total Elbow Arthroplasty: 90-Day Outcomes

*Michael Stone, MD, Keck School of Medicine at the University of Southern California*

12:33 pm – 12:37 pm Ipsilateral Capitellum and Lesser Sigmoid Notch Predict Radial Head Size

*Brett Schiffman, MD, University of Washington*

12:37 pm – 12:41 pm Stress Shielding in Partial Grit-Blasted Prosthetic Radial Heads

*Hithem* *Rahmi, DO, Geisinger Musculoskeletal Institute*

12:41 pm – 12:45 pm Discussion

**General Session 7 – Abstract Presentations**

**Moderator:** Jeffrey E. Krygier, MD, *Santa Clara Valley Medical Center*

12:50 pm – 12:56 pm Limb Length Discrepancy and Walking Performance in Hemiplegic Cerebral Palsy

*Jason Rhodes, MD, Children's Hospital Colorado*

12:56 pm – 1:02 pm An MRI Study of Neurovascular Bundle to Popliteus Tendon Distance

*Kendall Shifflett, BS, Orthopaedic Institute for Children*

1:02 pm – 1:08 pm 3D Printed Scaffolds and Regional Gene Therapy for Bone Repair

*Ram Alluri, MD, Keck School of Medicine at the University of Southern California*

1:08 pm – 1:14 pm Does Day of the Week of Surgery Affect Time to Discharge?

*Kali Tileston, MD, Stanford University*

1:14 pm – 1:20 pm Should We Repair Extensor Tendon Lacerations >50% of Tendon Width?

*Christina Salas, PhD, University of New Mexico*

*\*Presented by Deana Mercer, MD*

1:20 pm – 1:26 pm Injections Prior to Rotator Cuff Repair Increase Revision Rotator Cuff Repair Rates

*Alexander* *Weber, MD,* *Keck School of Medicine at the University of Southern California*

1:26 pm – 1:30 pm Discussion

1:30 pm – 1:35 pm  Farewell

**Tumor Answer Session**

**Moderators:** Jeffrey E. Krygier, MD, *Santa Clara Valley Medical Center*

Brian S. Moon, MD, *MD Anderson Cancer Center*

1:35 pm – 2:00 pm Questions & Discussion

2:00 pm – 3:00 pm **Multimedia Education Session**