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Grantor & Exhibitor Acknowledgements

The Western Orthopaedic Association is grateful for the support of its educational grantors and exhibitors. Thank you for your participation and commitment to WOA.

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Dear Colleagues,

As President of the WOA this year, I am honored to extend a warm Hawaiian ALOHA Welcome to the 2017 Annual Meeting on the tropical paradise island of Kauai. I hope you will agree the Grand Hyatt – Kauai is a terrific venue for families, friends, spouses and significant others to unwind from the stresses and strains of life on the mainland.

The scientific program is headed up by Omer Ilahi, MD. Give Omer and the entire Program Committee a high five for the magnificent job they did synthesizing a program that will be unparalleled as a source of what is new and exciting across all aspects of our profession.

On Thursday afternoon, there is an exciting program geared specifically for Residents and Fellows. For the first time ever, this program is a collaborative venture with the AAOS. Jennifer van Warmerdam, MD and her committee have done a superb job putting that together.

Peter Stern, MD will deliver this year’s keynote lecture as my Presidential Guest Speaker. Peter is a world renowned hand surgeon and past president of the ASSH and ABOS, among other accomplishments. His presentation will be a fascinating look at how Orthopaedics has changed and continues to change.

Walter Cunningham will deliver the Howard Steel Lecture. Walt was one of the three astronauts on Apollo 7, the first manned mission in the Apollo series of NASA’s space program. His life after NASA has been full of entrepreneurial adventures. Walt’s comments about the importance of the space program as a focal point of shared excitement in the midst of social upheaval across the nation will resonate today more than ever.

There is a plethora of fun activities available for everyone here, and something for every level of sports and leisure enthusiast. Please let the meeting management staff or me know if there is anything we can do to facilitate your activities. Above all, we want to ensure a great experience for all attendees.

Mary Allan is my significant other and she has a great program lined up for spouses, guests and significant others while the rest of us are in conference. We hope you will join Mary Thursday morning for “Breakfast with an Astronaut!” Also, join Mary for yoga on the beach Friday morning. Other details and event listings are available at the registration desk.

Mahalo for your interest, engagement and participation in this year’s meeting.

Bob

Robert R. Slater Jr., MD
Summary of Events
See Scientific Program for times for all CME Activities

Wednesday, August 2

12:00 pm – 5:00 pm
Board of Directors Meeting
Garden Isle Rooms 4 & 5

12:00 pm – 5:00 pm
Meeting Registration
Grand Ballroom Foyer

12:00 pm – 5:00 pm
Exhibit Setup
Grand Ballrooms 2,3,4 & 5

12:00 pm – 5:00 pm
Speaker Ready Area
Garden Isle Room 2

Thursday, August 3

6:00 am – 6:45 am
Scientific E-Poster Session
Kauai Ballrooms 1,2,3 & 4
Presenters will be available to answer questions.

6:00 am – 1:45 pm
Speaker Ready Area
Garden Isle Room 2

6:30 am – 1:45 pm
First Business Meeting
Grand Ballrooms 1,6 & 7

6:45 am – 1:45 pm
Technical Exhibits, Continental Breakfast, Coffee Breaks and Daily Drawing
Grand Ballrooms 2,3,4 & 5

7:00 am – 1:45 pm
Scientific Program
Grand Ballrooms 1,6 & 7

8:30 am – 10:00 am
Guest/Children’s Hospitality Breakfast with an Astronaut!
Dondero’s Restaurant
Join your friends and meet new ones while enjoying a continental breakfast and learning about space from Astronaut Walt Cunningham.
Price: Included in Registration Fee or $40 per Unregistered Adult Guest and $20 per Child (5-17 years)

8:40 am – 9:00 am
Break – Please visit Exhibits
Grand Ballrooms 2,3,4 & 5

9:20 am – 9:50 am
Presidential Guest Speaker
Grand Ballrooms 1,6 & 7
Impact Developments in Hand During My Lifetime
Peter J. Stern, MD, University of Cincinnati College of Medicine

9:55 am – 10:45 am
Concurrent Allied Health Session 1 - Knee & Shoulder
Kauai Ballrooms 5 & 6

10:25 am – 10:45 am
Break – Please visit Exhibits
Grand Ballrooms 2,3,4 & 5

11:45 am – 12:45 pm
WOA Luncheon – Industry Presentations
Ethicon, US, LLC
Mallinckrodt Pharmaceuticals, Inc.
*CME Credit Not Available
Grand Ballrooms 1,6 & 7

12:30 pm – 5:30 pm
Waimea Canyon Tour
Meet at group entrance in front of Kauai Ballroom
This tour takes you to the rim of one of the most awe-inspiring sites in Hawaii—Waimea Canyon, the “Grand Canyon of the Pacific.” Thousands of years of erosion have turned the canyon walls into a multi-hued canvas, where shadows and light produce a never-ending show. This tour also offers a spectacular view of Kauai’s western coast.
Price: $62 per Adult (13 and older) / $50 per Child (12 and under)

1:45 pm – 2:45 pm
Industry Presentation
Legally Mine
*CME Credit Not Available
Grand Ballrooms 1,6 & 7

1:45 pm – 2:45 pm
Scientific E-Poster Session
Kauai Ballrooms 1,2,3 & 4
Presenters will be available to answer questions.

1:45 pm – 5:00 pm
AAOS/WOAResident Review Program
Kauai Ballrooms 5 & 6

2:45 pm – 5:00 pm
Multimedia Education Session
Garden Isle Room 2

5:00 pm – 6:00 pm
Resident Reception
Kauai Ballroom Foyer
All Residents are invited to attend this reception.
Attire: Resort Casual
Price: Included in Registration Fee

6:15 pm – 7:00 pm
New Member Reception
Grand Lawn Gazebo
All WOA new members are invited to attend this reception. The WOA Board, and other leadership, would like to take this opportunity to welcome you to the WOA.
Attire: Resort Casual
Price: Included in Registration Fee

KEY
○ Activity/Tour
✦ Social Event
* Special Presentation
* Allied Health Session
Summary of Events

See Scientific Program for times for all CME Activities

7:00 pm – 9:30 pm

✦ Welcome Reception
Ilima Gardens
Have a wonderful evening overlooking the ocean and enjoying the Hawaiian breezes. You’ll savor delicious food delicacies and open bar while chatting with friends and colleagues. Take pleasure in the Hawaiian entertainment and soak in the “Kauai” experience.
Attire: Resort Casual (no jacket required and spike heels not recommended)
Price: Included in Registration Fee or $100 per Unregistered Adult Guest, $50 per Unregistered Child (5-17 years)

Friday, August 4

6:00 am – 7:00 am
Regional and AAOS Presidents’ Breakfast Meeting with State Presidents and Board of Councilors
Garden Isle Rooms 4 & 5

6:00 am – 7:00 am
Scientific E-Poster Session
Kauai Ballrooms 1,2,3 & 4
Presenters will be available to answer questions.

6:00 am – 1:25 pm
Speaker Ready Area
Garden Isle Room 2

6:30 am – 1:25 pm
Meeting Registration
Grand Ballroom Foyer

6:45 am – 1:25 pm
Technical Exhibits, Continental Breakfast, Coffee Breaks and Daily Drawing
Grand Ballrooms 2,3,4 & 5

7:00 am – 1:25 pm
Scientific Program
Grand Ballrooms 1,6 & 7

7:05 am – 8:30 am
✦ Concurrent Allied Health Session 2 – Foot & Ankle with Saw Bones Session
Kauai Ballrooms 5 & 6

7:30 am
Yoga on the Beach
Meet on Beach
Price: Included in Registration Fee

8:40 am – 9:00 am
Break - Please visit Exhibits
Grand Ballrooms 2,3,4 & 5

8:45 am – 10:00 am
✦ 1 hour Adult Golf Clinic at Poipu Bay Golf Course
Meet at group entrance in front of Kauai Ballroom
Covering the fundamentals of golf. Must wear golf attire (collared shirts, Bermuda shorts, and sneakers)
Price: $37 per person (minimum 4 people)

9:10 am – 10:05 am
✦ Howard Steel Lecture
Grand Ballrooms 1,6 & 7
The Golden Age of Space Flight
Walter Cunningham, Houston, TX

10:00 am – 11:15 am
✦ 1 hour Children’s Golf Clinic at Poipu Bay Golf Course
Meet at group entrance in front of Kauai Ballroom
Covering the fundamentals of golf. Must wear golf attire (collared shirts, Bermuda shorts, and sneakers)
Price: $37 per person (minimum 4 people)

10:05 am – 10:25 am
Break – Please visit Exhibits
Grand Ballrooms 2,3,4 & 5

11:25 am – 12:25 pm
✦ WOA Luncheon - Industry Presentation
Convatec
* CME Credit Not Available
Grand Ballrooms 1,6 & 7

12:30 pm – 5:30 pm
✦ Golf Tournament
Meet at group entrance in front of Kauai Ballroom at 12:30 pm
Sprawled between lush mountains and rugged ocean cliffs on Kauai’s sunny South Shore, Poipu Bay Golf Course boasts 18 championship holes with seashore paspalum greens that are as visually stunning as they are challenging. Designed by Robert Trent Jones, Jr., Poipu Bay is one of the most highly acclaimed resort courses in the Pacific. From 1994 to 2006, the course played host to the annual PGA Grand Slam of Golf. A round at Poipu Bay Golf Course affords you the opportunity to experience the sheer pleasures and daunting challenges of a course recognized as one of America’s finest and to “play where champions play.”
Price: $175 per person (includes green fees, tournament fee and prizes)

1:30 pm – 2:30 pm
Scientific E-Poster Session
Kauai Ballrooms 1,2,3 & 4
Presenters will be available to answer questions.

1:50 pm – 4:00 pm
✦ Botanical Gardens Medical Tour
Meet at group entrance in front of Kauai Ballroom
This garden is over 250 acres of conservation research land and home to over 6,000 rare and endangered species of plants. We’ll take a short leisurely walk to an enchanted tropical rain forest which has a backdrop of one of the most beautiful waterfalls on Kauai, Waihulili Falls. This magical trail is lined with some of the rarest species of plants found in the Garden. Guests must be able to walk approximately 1/4 mile over a one hour period with rest stops. Guests must wear comfortable attire for walking, including closed-toe shoes. It is also recommended that guests bring along bug repellent.
Price: $40 per Adult / $20 per Child (12 and under) Minimum 15 people

2:00 pm – 4:00 pm
✦ Tennis Round Robin
Meet at Tennis Courts
Price: $20 per person (Minimum 4 People)
Summary of Events
See Scientific Program for times for all CME Activities

2:30 pm – 3:30 pm
Multimedia Education Session
Garden Isle Room 2

5:30 pm – 7:30 pm
Exhibitor Reception
Grand Ballrooms 2,3,4 & 5
This is an opportunity to visit with the Exhibitors and view the scientific posters. Before you go to dinner, start your evening off with your favorite beverage!
Attire: Resort Casual
Price: Included in Registration Fee or $75 per Unregistered Adult Guest

5:30 pm – 7:30 pm
Kids’ Movie Night with Arts & Crafts and Dinner
Kauai Ballrooms 5 & 6
Dinner and a movie—fun!!! Watch a great movie and nibble on snacks and treats with your friends! If younger than 5 years old, must be accompanied by an adult.
Price: Included in Registration Fee or $25 per Unregistered Child (5-17 years)

Saturday, August 5

6:00 am – 6:55 am
Board of Directors Meeting
Garden Isle Rooms 4 & 5

6:00 am – 7:00 am
Scientific E-Poster Session
Kauai Ballrooms 1,2,3 & 4
Presenters will be available to answer questions.

6:00 am – 12:30 pm
Speaker Ready Area
Garden Isle Room 2

6:30 am – 12:30 pm
Meeting Registration
Grand Ballroom Foyer

6:45 am – 12:30 pm
Technical Exhibits, Continental Breakfast, Coffee Breaks and Daily Drawing
Grand Ballrooms 2,3,4 & 5

7:00 am – 7:15 am
Second Business Meeting
Grand Ballrooms 1,6 & 7

7:15 am – 12:30 pm
Scientific Program
Grand Ballrooms 1,6 & 7

8:15 am – 8:45 am
WOA Brunch - Industry Presentation
DePuy Synthes Sales, Inc./Pacira Pharmaceuticals, Inc.
*CME Credit Not Available
Grand Ballrooms 1,6 & 7

9:10 am – 9:55 am
Concurrent Allied Health Session 3 – MR Imaging Interpretation
Kauai Ballrooms 5 & 6

9:50 am – 10:15 am
Break - Please visit Exhibits
Grand Ballrooms 2,3,4 & 5

10:20 am – 10:50 am
Presidential Address
Grand Ballrooms 1,6 & 7
Grand, High Views of the WOA and the WOF: Understanding Where We’ve Been to Predict Where We’re Going
Robert R. Slater, Jr., MD, Folsom, CA

10:50 am – 11:00 am
Refreshment Break
Grand Ballroom Foyer

11:00 am – 12:30 pm
Concurrent Allied Health Session 4 - Fractures Of The Hand And Wrist – Share Interesting Cases for Interactive Review
Kauai Ballrooms 5 & 6

12:30 pm – 1:30 pm
Multimedia Education Session
Garden Isle Room 2

1:15 pm – 5:15 pm
Sailing Na Pali Coast
Meet at group entrance in front of Kauai Ballroom
Take in breathtaking views as you cruise along the Na Pali Coast. Enjoy beverage and snacks as we explore the coastline while the crew keeps you entertained with local stories about the sights on the way. This tour allows you to see sights that can only be seen from the water (an area you cannot drive to see). You will see the sea caves, valleys, cliffs and waterfalls of the Na Pali Coastline—what Kauai is known for!
Price: $170 per person (includes transportation, beverages and snacks)
Minimum 40 people

7:00 pm – 10:00 pm
Family Luau – Havaiki Nui – A Journey to New Lands
Ilina Gardens
Join us on a fascinating journey through Polynesia where a Royal feast nourishes both body and soul, and magical stories of Hawaii fill your heart. Listen to traditional and contemporary Hawaiian music and chants. Watch hula dancers tell beautiful stories of Hawaii with their elegant and graceful movements; enjoy this unique Hawaiian experience!
Attire: Resort Casual (no jacket required)
Price: Included in Registration Fee or $150 per Unregistered Adult Guest and $50 per Child (5-17 years)
**Scientific Program**  Grand Ballrooms 1, 6 & 7, Unless Otherwise Specified

**CME ACCREDITATION**
The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of 22 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

*13 CME Credits for Scientific Program
*4.75 CME Credits for Scientific E-Poster Sessions
*4.25 CME Credits for Multimedia Education Sessions

To ensure correct CME credit is awarded, please complete the WOA 2017 Annual Meeting CME Credit Records online at [www.woa-assn.org](http://www.woa-assn.org). CME Certificates will be awarded to all registered participants.

**RADIOLOGY TECHNOLOGY CONTINUING MEDICAL EDUCATION**
A maximum of 10 hours may be claimed for Radiology Technology Continuing Medical Education hours.

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**Thursday, August 3**

6:00 am  **Scientific E-Poster Session**  Kauai Ballrooms 1, 2, 3 & 4
Presenters will be available to answer questions.

6:45 am  **First Business Meeting**

7:00 am  **Welcome, Announcements and Meeting Overview**
Omer A. Ilahi, MD, Program Chair
Robert R. Slater Jr., MD, President

**General Session 1 – WOA/OREF Young Investigator Awards**
Moderator: Omer A. Ilahi, MD, Southwest Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute

7:15 am  Accuracy of the ASES Physician Assessment in Shoulder Arthroplasty Patients
Alan L. Zhang, MD, University of California, San Francisco

7:21 am  Effect of Hamstring Harvest in the Setting of ACL and MCL Concurrent Injury
Thomas J. Kremen Jr., MD, Cedars-Sinai Medical Center

7:27 am  The Role of Calcaneofibular Ligament in Ankle and Subtalar Biomechanics
Kenneth J. Hunt, MD, University of Colorado

7:33 am  Discussion

**Symposium 1 – Foot and Ankle**
Moderator: Vinod K. Panchbhavi, MD, FACS, University of Texas Medical Branch

7:40 am  Management of the Charcot Foot
Vinod K. Panchbhavi, MD, FACS, University of Texas Medical Branch

7:52 am  Jones Fracture Management
Gregory A. Lundeen, MD, MPH, Reno Orthopaedic Clinic

8:04 am  Lisfranc Joint Injuries
Thomas G. Harris, MD, Congress Orthopedic Associates

8:16 am  Talar OCD Management
Kenneth J. Hunt, MD, University of Colorado

8:28 am  Discussion

8:40 am  **Break – Please visit Exhibits**  Grand Ballrooms 2, 3, 4 & 5

**General Session 2 – Own the Bone, AAOS Report & Presidential Guest Speaker**
Moderator: Robert R. Slater, Jr., MD, Folsom, CA

9:00 am  **Own the Bone**
Fred C. Redfern, MD, Henderson, NV

9:05 am  **AAOS Report**
William J. Maloney III, MD, Stanford School of Medicine

9:20 am  **Presidential Guest Speaker**
Impact Developments in Hand During My Lifetime
Peter J. Stern, MD, University of Cincinnati College of Medicine

**Rapid Fire Session 3A – Trauma**  Kauai Ballroom 1
Moderators: Milton “Chip” Routt Jr., MD, University of Texas Health Science Center & Payam Tabrizi, MD, The Hughston Clinic/Memorial Hospital

9:55 am  Nationwide Analysis of Femoral Neck Fractures: A Receding Tide
Derek G. Ju, MD, Cedars-Sinai Medical Center

9:59 am  Complications Associated with Distal Femoral, Proximal Tibial, and Calcaneal Traction Pins
Michael Stefl, MD, University of Southern California

10:03 am  Are Factor Xa Inhibitors Effective Thromboprophylaxis after Hip Fracture Fixation?
Abiram Bala, MD, Stanford University
*Presented by Julius A. Bishop, MD

10:07 am  Discussion

10:10 am  Outcomes of Nonoperatively Managed Patella Fractures
Joseph D. Cooper, MD, University of Southern California
*Presented by Mary Kate Erdman, MD

10:14 am  Radiographic Variance of Tibial Plateau Anatomy- Reference to Plateau Fractures
Adam Johannsen, MD, Stanford University

10:18 am  Comparison of Fluoroscopic Techniques for Assessment of Femoral Rotational Alignment
Elizabeth Gray Lieberman, MD, Oregon Health and Science University

10:22 am  Discussion

8:40 am  **Break – Please visit Exhibits**  Grand Ballrooms 2, 3, 4 & 5

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## Scientific Program

**Grand Ballrooms 1, 6 & 7, Unless Otherwise Specified**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Description</th>
<th>Details</th>
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<tbody>
<tr>
<td>10:07 am</td>
<td>Discussion</td>
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<tr>
<td>10:10 am</td>
<td>Rapid Fire Session 3D – Basic Science</td>
<td>3-D Prosthetic Reconstructions Types 1-2, and Bilateral 1Pelvic Resections Gerhard E. Maale III, MD, Medical City Hospital</td>
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<tr>
<td>10:14 am</td>
<td>Rapid Fire Session 3D – Tumor</td>
<td>Kauai Ballroom 3 Moderators: Bryan S. Moon, MD, MD Anderson Cancer Center &amp; David H. Chafey III, MD, University of New Mexico</td>
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<tr>
<td>10:18 am</td>
<td>Rapid Fire Session 3D – Tumor</td>
<td>3-D Prosthetic Reconstructions Types 1-2, and Bilateral 1Pelvic Resections Gerhard E. Maale III, MD, Medical City Hospital</td>
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<tr>
<td>10:22 am</td>
<td>Discussion</td>
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<tr>
<td>10:25 am</td>
<td>Break – Please visit Exhibits</td>
<td>Grand Ballrooms 2, 3, 4 &amp; 5</td>
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<tr>
<td>11:15 am</td>
<td>Symposium 2 – Hip/Knee Arthroplasty</td>
<td>Minimally Invasive Surgery in Joint Replacement. Where are We? Michael Huo, MD, University of Texas Southwestern Medical Center</td>
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<tr>
<td>11:15 am</td>
<td>Symposium 2 – Hip/Knee Arthroplasty</td>
<td>Preventing and Treating Total Joint Arthroplasty Infections Kenneth B. Mathis, MD, University of Texas Health Science Center</td>
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<tr>
<td>11:15 am</td>
<td>Symposium 2 – Hip/Knee Arthroplasty</td>
<td>Robotics, Navigation, and Custom Implants for Total Joint Arthroplasty William J. Maloney III, MD, Stanford School of Medicine</td>
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<tr>
<td>11:30 am</td>
<td>Discussion</td>
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<tr>
<td>12:30 pm</td>
<td>Symposium 3 – Patient Safety</td>
<td>Panel Discussion David C. Ring, MD, PhD, Dell Medical School, The University of Texas at Austin</td>
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<tr>
<td>12:30 pm</td>
<td>Symposium 3 – Patient Safety</td>
<td>Concurrent Allied Health Session 1 – Knee &amp; Shoulder Kauai Ballrooms 5 &amp; 6 Moderator: Theodore W. Coates, PA-C, University of California, Davis</td>
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<tr>
<td>12:30 pm</td>
<td>Symposium 3 – Patient Safety</td>
<td>Concurrent Allied Health Session 2 – Hip/Knee Arthroplasty Kauai Ballrooms 5 &amp; 6 Moderator: Michael Huo, MD, University of Texas Southwestern Medical Center</td>
</tr>
<tr>
<td>12:30 pm</td>
<td>Symposium 3 – Patient Safety</td>
<td>Concurrent Allied Health Session 3 – Patient Safety Kauai Ballrooms 5 &amp; 6 Moderator: Jennifer van Warmerdam, MD, St. Mary’s Medical Center Total Joint Center</td>
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<tr>
<td>12:30 pm</td>
<td>Symposium 3 – Patient Safety</td>
<td>Concurrent Allied Health Session 4 – Patient Safety Kauai Ballrooms 5 &amp; 6 Moderator: Jennifer van Warmerdam, MD, St. Mary’s Medical Center Total Joint Center</td>
</tr>
</tbody>
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*Presented by Gabrielle M. Paci, MD
*Presented by Douglas Cerynik, MD, MBA
*Presented by Alan L. Zhang, MD
*Presented by Blake J. Schultz, MD, Stanford University
*Presented by Ryan Nunley, MD
*Presented by Richard A. Marder, MD, University of California, Davis
*Presented by Michael Huo, MD, University of Texas Southwestern Medical Center
*Presented by William J. Maloney III, MD, Stanford School of Medicine
*Presented by David C. Ring, MD, PhD, Dell Medical School, The University of Texas at Austin
*Presented by Jennifer Van Warmerdam, MD, St. Mary's Medical Center Total Joint Center
*Presented by Michael Huo, MD, University of Texas Southwestern Medical Center
*Presented by Theodore W. Coates, PA-C, University of California, Davis
*Presented by David C. Ring, MD, PhD, Dell Medical School, The University of Texas at Austin
Scientific Program  Grand Ballrooms 1, 6 & 7, Unless Otherwise Specified

2:15 pm  Transitioning from Training to Practice
Debra Phairas, Practice & Liability Consultants, LLC

3:00 pm  Physician Practice Options
Debra Phairas, Practice & Liability Consultants, LLC

3:45 pm  How to Give a Presentation at a National Meeting
Milton “Chip” Routt Jr, MD, University of Texas Health Science Center

4:15 pm  How to Review Your First Employment Contract
Rosalyn Nguyen JD, MBA, Presbyterian Healthcare Services

4:45 pm  Discussion

2:45 pm  Multimedia Education Session  Garden Isle Room 2

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Friday, August 4

6:00 am  Scientific E-Poster Session  Kauai Ballrooms 1,2,3 & 4
Presenters will be available to answer questions.

7:00 am  Announcements
Omer A. Ilahi, MD, Program Chair

General Session 4 – WOA Resident Awards
Moderator: Omer A. Ilahi, MD, Southwest Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute

7:05 am  Vitamin D is a Modifiable Risk Factor for Periprosthetic Joint Infection
Vishal V. Hegde, MD, University of California, Los Angeles

7:11 am  Clinical Presentation and Intra-Articular Injury in Patients with Posterior Shoulder Instability
Jessica Bryant, MD, University of California, San Francisco

7:17 am  14 Year Follow-Up of Arthroscopic versus Open Anterior Shoulder Stabilization
John D. Johnson, DO, Tripler Army Medical Center

7:23 am  Vancomycin Powder in Spine Surgery: Does It Work and Does Dose Matter? An In-Vivo Mouse Model Experiment
Howard Y. Park, MD, University of California, Los Angeles

7:29 am  Longitudinal Murine Model of Allograft Infection: Evidence for Paradigm Shift?
Stephen D. Zoller, MD, University of California, Los Angeles

7:35 am  Radiographic Risk Factors for Loss of Fixation Following Volar Plate Fixation of Intra-Articular Distal Radius Fractures
Jason H. Ghodasra, MD, MSCI, University of California, Los Angeles

7:41 am  Comparison of Short-Term Biodex Results after Anatomic ACL Reconstruction between Three Autografts
Jonathan D. Hughes, MD, Scott and White Medical Center

7:47 am  Discussion

Concurrent Allied Health Session 2 – Foot & Ankle with Saw Bones Session  Kauai Ballrooms 5 & 6
Moderator: Theodore W. Coates, PA-C, University of California, Davis

7:05 am  Do Not Miss These Injuries of the Foot & Ankle
Christopher D. Kreulen, MD, University of California, Davis

Rapid Fire Session 5A – Sports Medicine  Kauai Ballroom 1
Moderators: Richard A. Marder, MD, UC Davis School of Medicine & Jonathan T. Bravman MD, CU Sports Medicine

8:00 am  Concomitant Shoulder and Cervical Spine Pathology: Diagnosis and Management Trends
James B. Chen, MD, University of California, Los Angeles

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8:04 am  Should Pre-Operative Fascia Iliaca Block Be Used for Hip Arthroscopy?
Michael J. Huang, MD, Colorado Springs Orthopaedic Group
*Presented by Jennifer J. Wages, PhD, ATC

8:08 am  Teres Minor Fatty Infiltration Affects Outcomes Following Rotator Cuff Surgery
Eric J. Sarkissian, MD, Stanford Hospital & Clinics

8:12 am  Discussion

8:18 am  Wearable Sensors Allow Measurement of Resident Improvement in Arthroscopic Simulation
Peters T. Ottans, MD, MPH, Oregon Health & Science University

8:22 am  Predicting Injury in Collegiate Athletes Using the Y-Balance Test
Wilson Lai, BS, University of California, Los Angeles
*Presented by James B. Chen, MD

8:26 am  Effect of Graft Proudness on OCA Contact Forces
Peter Z. Du, BS, University of California Los Angeles

8:30 am  A Comparison of Ankle Sprains in a Division I Collegiate Football Team
Colin M. Mansfield, MD, University of Southern California
*Presented by Seth C. Gamradt, MD

8:34 am  Discussion

Rapid Fire Session 5B – Trauma  Kauai Ballroom 2
Moderators: Julius A. Bishop, MD, Stanford Hospital & Clinics & Payam Tabrizi, MD, The Hughston Clinic/Memorial Hospital

8:00 am  Risk of Delirium after Intramedullary Nailing for Intertrochanteric Hip Fracture
Christopher Shultz, MD, University of New Mexico

8:04 am  The Crush Index: Orthopaedic Trauma as an Economic Indicator
James B. Chen, MD, University of California, Los Angeles

8:08 am  Effect of Hypoalbuminemia on Perioperative Complications in Ankle Fracture Fixation
Collin Barber, MD, Banner Health

8:12 am  Discussion

8:18 am  The Utility of Immediate Postoperative Radiographs after Fluoroscopy-Assisted Fracture Fixation
Peter Z. Du, BS, University of California, Los Angeles

8:22 am  Are Retrograde Nails Better for Distal Femur Fractures in Obese Patients?
Collin Barber, MD, Banner Health

8:26 am  Acetabular Fractures: Emergence of Total Hip Arthroplasty as Index Procedure
Christopher Shultz, MD, University of New Mexico

8:30 am  Operative versus Non-Operative Management of Traumatic Arthrotoomies from Gun Shot Wounds
Christopher Shultz, MD, University of New Mexico

8:34 am  Discussion

Rapid Fire Session 5C – Total Hip  Kauai Ballroom 3
Moderators: Brian A. Jewett, MD, Slocum Orthopedics & Richard Gehlert, MD, University of New Mexico

8:00 am  The Burden of Revision Total Hip Arthroplasty in the United States
Sean S. Rajaee, MD, Cedars-Sinai Medical Center
8:04 am  Obesity is Associated with Revision Hip Arthroplasty for Infection and Early Loosening
L. Henry Goodnough, MD, PhD, Stanford Hospitals and Clinics

8:08 am  Complications in Computer Navigated vs Conventional Total Hip Arthroplasty
Blake K. Montgomery, MD, Stanford University
*Presented by Derek F. Amanatullah, MD, PhD

8:12 am  Discussion

8:18 am  Prospective, Multi-Centered, Non-Randomized, Post-Approval Study: Longitudinal Evaluation of the Long-Term Safety and Efficacy of the BHR System
Lawrence R. Housman, MD, Tucson Orthopaedic Institute

8:22 am  Total Hip Arthroplasty: Association of Comorbidities and Discharge Destination
Cory Janney, MD, University of Texas Medical Branch

8:26 am  A Rosetta Stone for THA: Translating Expectations into Patient Reported Outcomes
Adam A. Sassoon, MD, MS, University of Washington

8:30 am  Factor Xa Inhibitors Outperform Traditional Anticoagulants in Total Hip Arthroplasty
Abiram Bala, MD, Stanford University
*Presented by Derek F. Amanatullah, MD, PhD

8:34 am  Discussion

Rapid Fire Session 5D – Total Knee  Kauai Ballroom 4
Moderators: Jeffrey M. Nakano, MD, Rocky Mountain Orthopaedic Associates & Jay R. Lieberman, MD, University of Southern California

8:00 am  Does Intrathecal Morphine Have a Role in Modern Joint Arthroplasty?
Jonathan Cheah, MD, University of California, San Francisco

8:04 am  Proximalization of the Tibial Tubercle Osteotomy: A Solution for Patella Inferra During Revision Total Knee Arthroplasty
Alexander M. DeHaan, MD, Orthopaedic and Fracture Specialists

8:08 am  Cluster Analysis Reveals Functional Trajectories Following Total Knee Arthroplasty
Steven T. DiSegna, MD, University of Massachusetts Memorial Medical Center

8:12 am  Discussion

8:18 am  Post Market Surveillance Using Patient Reported Outcome Measures
Steven T. DiSegna, MD, University of Massachusetts Memorial Medical Center

8:22 am  The Effect of Preoperative Malnutrition on Postoperative Stamina in Total Joint Arthroplasty Patients
Travis C. Philipp, MD, Oregon Health and Science University

8:26 am  Consequences of Increasing Insert Thickness in Total Knee Arthroplasty
Trevor J. Shelton, MD, University of California, Davis

8:30 am  Analysis of Spanish vs English Speaking Patients Undergoing Total Knee Arthroplasty
Adam Wright, MD, Baylor Scott and White
*Presented by Nathan Haile, MD

8:34 am  Discussion

8:40 am  Break – Please visit Exhibits  Grand Ballrooms 2, 3, 4 & 5

General Session 6 – BOC Report, WOF Report & Howard Steel Lecture
Moderator: Robert R. Slater, Jr., MD, Folsom, CA

9:00 am  BOC Report
Bryan S. Moon, MD, MD Anderson Cancer Center

9:05 am  WOF Report
Robert R. Slater, Jr., MD, Folsom, CA

9:10 am  Introduction of Howard Steel Lecturer
Robert R. Slater, Jr., MD, Folsom, CA

9:15 am  Howard Steel Lecture
The Golden Age of Space Flight
Walter Cunningham, Houston, TX

10:05 am  Break – Please visit Exhibits  Grand Ballrooms 2, 3, 4 & 5

Symposium 4 – Sports Medicine
Moderator: Omer A. Ilahi, MD, Southwest Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute

10:25 am  Treating Patellofemoral Instability
Omer A. Ilahi, MD, Southwest Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute

10:40 am  Reconstruction of the Superior Gleno-Humeral Capsule
Stephen S. Burkhart, MD, The San Antonio Orthopaedic Group

10:55 am  ACL Graft Choices & Femoral Drilling Techniques
David J. Mansfield, MD, El Paso Orthopaedic Surgery Group

11:10 am  Discussion

11:25 am  WOA Luncheon – Industry Presentation
*CME Credit Not Available
ConvaTec
Risk Mitigation of Infection Following Total Joint Arthroplasty
Kirby Hitt, MD & Louis Kwong, MD

Moderator: Thomas R. Hunt III, MD, DSc, Baylor College of Medicine

12:25 pm  Innovation in Medicine and Its Impact on Quality of Care
Thomas R. Hunt III, MD, DSc, Baylor College of Medicine

12:35 pm  Innovation in Pediatric Orthopedics: Impact on Patient Outcome
Pamela J. Sherman, MD, Cook Children’s Medical Center

12:50 pm  Innovation in the Care of Wrist Disorders: Impact on Patient Outcome
Brian D. Adams, MD, Baylor College of Medicine

1:05 pm  Innovation in Upper Extremity Fracture Care: Impact on Patient Outcome
Scott A. Mitchell, MD, Baylor College of Medicine

1:20 pm  Discussion

1:30 pm  Scientific E-Poster Session  Kauai Ballrooms 1, 2, 3 & 4
Presenters will be available to answer questions.

2:30 pm  Multimedia Education Session  Garden Isle Room 2

Saturday, August 5

6:00 am  Scientific E-Poster Session  Kauai Ballrooms 1, 2, 3 & 4
Presenters will be available to answer questions.

7:00 am  Second Business Meeting

Symposium 6 – Trauma
Moderator: Kyle F. Dickson, MD, Southwest Orthopedic Group
7:15 am  Open Fractures, Especially of the Tibia  
Kyle F. Dickson, MD, Southwest Orthopedic Group

7:30 am  Evaluating Cervical Spine Injuries  
Rex A. Marco, MD, Houston Methodist Hospital

7:45 am  New Perspectives in the Treatment of Osteomyelitis  
David W. Lowenberg, MD, Stanford University School of Medicine

8:00 am  Discussion

8:15 am  Opening Remarks

8:30 am  Symposium 7 – Physician-Hospital Relationships

Moderator: Basil R. Besh, MD, Fremont Orthopaedic & Rehabilitative Medicine

8:45 am  Orthopedics without a Hospital  
Basil R. Besh, MD, Fremont Orthopaedic & Rehabilitative Medicine

8:50 am  Current Economics of Orthopaedic Private Practice Model  
Omer A. Bashi, MD, Southwest Orthopaedic Group/Texas Arthroscopy & Sports Medicine Institute

8:55 am  Partnering with a Hospital in a Surgery Co-Management Model  
Usman Mirza, MBA, The San Antonio Orthopaedic Group

9:00 am  Discussion

Rapid Fire Session 7A – Total Hip  Kauai Ballroom 1

Moderators: Brian A. Jewett, MD, Slocum Orthopedics & Jay R. Lieberman, MD, University of Southern California

9:10 am  Outpatient Total Hip Arthroplasty in the United States: A Population-Based Comparative Analysis of Complication Rates  
Armin Arshi, MD, University of California, Los Angeles

9:14 am  Utility of Intraoperative Fluoroscopic Positioning of THA Components  
Christopher M. Belyea, MD, Tripler Army Medical Center

9:18 am  Outcomes of a New 3D Porous Metal Acetabular Component  
Tyler D. Goldberg, MD, Texas Orthopedics, Sports and Rehabilitation
*Presented by Andrea Torres

9:22 am  Efficacy of Hepatitis C Screening Prior to Total Hip Arthroplasty  
Nathan Halle, MD, Baylor Scott and White Healthcare/Texas A&M Health Science Center

9:26 am  Discussion

9:30 am  Efficacy of Hemoglobin A1c Screening Prior to Total Hip Arthroplasty  
Nathan Halle, MD, Baylor Scott and White Healthcare/Texas A&M Health Science Center

9:34 am  Use of Bipolar Radiofrequency for the Treatment of Tendonosis  
Evan E. Vellios, MD, University of California, Los Angeles

9:38 am  Early Weight Bearing as Tolerated after ORIF of Ankle Fracture  
Tyler D. Goldberg, MD, Texas Orthopedics, Sports and Rehabilitation
*Presented by Andrea Torres

9:42 am  The Role of Fixation of the Lateral Process of the Talus in Development of Subtalar Arthritis in Patients with a Talar Neck Or Body Fracture  
Nicholas Romeo, DO, Harborview Medical Center / University of Washington
*Presented by Michael Githens, MD

9:46 am  Discussion

Rapid Fire Session 7B – Sports Medicine  Kauai Ballroom 2

Moderators: Richard A. Marder, MD, UC Davis School of Medicine & Jonathan T. Bravman MD, CU Sports Medicine

9:42 am  Abductor Repair in Patients with and without Total Hip Arthroplasty  
Ruwan Ratnayake, MD, UC Davis Medical Center

9:46 am  Discussion

9:50 am  Measurement of Intra-Articular Length for All-Inside Anterior Cruciate Ligament Reconstruction  
Jonathan-James Eno, MD, Stanford University
*Presented by Brian Karamian, MD

9:54 am  The Diagnostic Accuracy of Three Physical Exam Maneuvers in the Diagnosis of Hip Microinstability  
Daniel Hoppe, MD, University of Toronto
*Presented by Lauren M. Shapiro, MD

9:58 am  Comparison of Patient-Reported Outcomes a Minimum 2 Years after Anatomic ACL Reconstruction between Four Graft Types  
Jonathan D. Hughes, MD, Scott and White Medical Center

9:22 am  The Role of Fixation of the Lateral Process of the Talus in Development of Subtalar Arthritis in Patients with a Talar Neck or Body Fracture  
Nicholas Romeo, DO, Harborview Medical Center / University of Washington
*Presented by Michael Githens, MD

9:26 am  Discussion

9:30 am  High Variability in Evaluating Articular Cartilage Lesions in Clinical Studies  
William L. Sheppard Jr., BS, University of California, Los Angeles
*Presented by Armin Arshi, MD

9:34 am  Efficacy of Hemoglobin A1c Screening Prior to Total Hip Arthroplasty  
Nathan Halle, MD, Baylor Scott and White Healthcare/Texas A&M Health Science Center

9:38 am  Pectoralis Major Tendon Repair: A Meta-Analysis Comparing Different Surgical Techniques  
Peter S. Vezeridis, MD, University of California
*Presented by Kent T. Yamaguchi Jr., MD

9:42 am  Crossover Sign in Dysplasia: Not Uncommon and Do Not Rest!  
Dean K. Matsuda, MD, DBC Sports and Spine

9:46 am  Discussion

Rapid Fire Session 7C – Foot & Ankle  Kauai Ballroom 3

Moderators: Julius A. Bishop, MD, Stanford Hospital & Clinics & Kenneth J. Hunt, MD, University of Colorado

9:10 am  Trends Associated with Surgical Fixation of Lisfranc Injuries in the United States  
Evan E. Vellios, MD, University of California, Los Angeles

9:14 am  Orthopaedists Have Less Complications Following Ankle Fracture Fixation than Podiatrists  
Jeremy Y. Chan, MD, Stanford University
*Presented by Julius A. Bishop, MD

9:18 am  Unrestricted Weightbearing with Stirrup Brace Following Lateral Ankle Ligament Stabilization  
Christopher Diefenbach, MD, Reno Orthopedic Clinic
*Presented by Gregory A. Lundeen, MD, MPH

9:22 am  Responsiveness of Patient Reported Outcome Measures for Foot and Ankle Surgery  
Ajay Gurbani, MD, University of California Los Angeles
*Presented by Evan E. Vellios, MD

9:26 am  Discussion

9:30 am  Early Weight Bearing as Tolerated after ORIF of Ankle Fracture  
Michael Orden, MD, University of California, Los Angeles

9:34 am  The Role of Fixation of the Lateral Process of the Talus in Development of Subtalar Arthritis in Patients with a Talar Neck or Body Fracture  
Nicholas Romeo, DO, Harborview Medical Center / University of Washington
*Presented by Michael Githens, MD

9:38 am  Facilitates Bilateral Hip Arthroplasty  
Evan E. Vellios, MD, University of California, Los Angeles

9:42 am  The Role of Fixation of the Lateral Process of the Talus in Development of Subtalar Arthritis in Patients with a Talar Neck or Body Fracture  
Nicholas Romeo, DO, Harborview Medical Center / University of Washington
*Presented by Michael Githens, MD

9:46 am  Discussion
Scientific Program

Grand Ballrooms 1, 6 & 7, Unless Otherwise Specified

9:38 am  A National Comparison of Total Ankle Replacement versus Arthrodesis
Andrew F. Sabour, BS, University of Southern California

9:42 am  Factors Reducing the Complication Rate and Improving the Success Rate for Initiating a Total Ankle Arthroplasty Program
Katlinc C. Neary, MD, Reno Orthopaedic Clinic
*Presented by Gregory A. Lundeen, MD, MPH

9:46 am  Discussion

Rapid Fire Session 7D – Other Kauai Ballroom 4
Moderators: Meghan N. Imrie, MD, Stanford School of Medicine & Basil R. Besh, MD, Fremont Orthopaedic & Rehabilitative Medicine

9:10 am  Factors that Impact the Residency Match: Research, Medical School, and Honor Society Membership
Sean T. Campbell, MD, Stanford University

9:14 am  What Makes Journal Club Effective?: A Survey of Orthopaedic Residents and Faculty
Sean T. Campbell, MD, Stanford University

9:18 am  Perioperative Antibiotic Prophylaxis with Both Vancomycin and Cefazolin Prior to Primary Hip and Knee Arthroplasty: A Safety and Efficacy Analysis
Alexander M. DeHaan, MD, Orthopaedic and Fracture Specialists

9:22 am  Hierarchical-Modeling versus Traditional-Regression for Studies Utilizing the National Inpatient Sample
Joshua W. Hustedt, MD, MHS, University of Arizona

9:26 am  Discussion

9:30 am  Personal Physician Characteristics Adversely Affect Patient Satisfaction in Orthopaedic Surgery
Laura Y. Lu, BS, Stanford University

9:34 am  Resident Involvement in Hip Fracture Surgery Affects Patient Outcomes
Dayton Opel, MD, Oregon Health & Science University

9:38 am  Electronic Medical Record Impact on Physician-Patient Interaction in Orthopaedics
Jean-Christophe N. Rwigerwa, BS, University of Southern California

9:42 am  Are Surgical Skills Under-Emphasized in Disaster Response Literature?
CAPT Steven Wilding, MD, Tripler Army Medical Center
*Presented by CPT J. Banks, MD

9:46 am  Discussion

Concurrent Allied Health Session 3 – MR Imaging Interpretation Kauai Ballrooms 5 & 6
Moderator: Theodore W. Coates, PA-C, University of California, Davis

9:10 am  MR Imaging of the Knee and Shoulder
Russell C. Fritz, MD, National Orthopaedic Imaging Associates

9:50 am  Break – Please Visit Exhibits  Grand Ballrooms 2, 3, 4 & 5

General Session 8 – OREF Update & Presidential Address
Moderator: Omer A. Ilahi, MD, Southwest Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute

10:15 am  OREF Update
William C. McMaster, MD, UCI Medical Center Orthopaedics

10:20 am  Presidential Address
Grand, High Views of the WOA and the WOF: Understanding Where We’ve Been to Predict Where We’re Going
Robert R. Slater, Jr., MD, Folsom, CA

10:50 am  Refreshment Break  Grand Ballroom Foyer

General Session 9 – Sports Medicine / Other / Trauma / Total Joint
Moderator: Omer A. Ilahi, MD, Southwest Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute

11:00 am  A Novel Approach to Detection of Acetabular Cartilage Delamination in FAI Patients
Alan L. Zhang, MD, University of California, San Francisco

11:06 am  Enhanced ACL Graft Incorporation by Novel Minimally Invasive Activation of Endogenous Stem Cells
Thomas J. Kremen Jr., MD, Cedars-Sinai Medical Center

11:12 am  Jliopsoas Related Pathology, Prevalence, Associated Findings, and Surgical Procedures from a Large Multicenter Hip Arthroscopy Study Group
Dean H. Matsuda, MD, DISC Sports and Spine

11:18 am  Intraoperative Methylene Blue Staining Allows Visualization of Microbial Biofilm-Associated Tissue in Periprosthetic Joint Infection
Jeremy D. Shaw, MD, University of California, San Francisco
*Presented by Jonathan Cheah, MD

11:24 am  Orthopaedic Resident Practice Management and Policy Education: Experience and Expectations
Eugene F. Stautberg III, MD, University of Texas Medical Branch
*Presented by Marc M. DeHart, MD

11:30 am  Chemoprophylaxis does not Prevent Relevant VTE after Fracture Surgery Below the Knee
Joseph T. Patterson, MD, MD, Orthopaedic Trauma Institute, University of California, San Francisco

11:36 am  Discussion

Concurrent Allied Health Session 4 – Fractures of the Hand and Wrist – Share Interesting Cases for Interactive Review Kauai Ballrooms 5 & 6
Moderator: Theodore W. Coates, PA-C, University of California, Davis

11:00 am  A unique opportunity to review and discuss cases ranging from everyday fractures to obscure events with your peers. Rehearse your case presentation with the group and obtain constructive feedback. Everyone will benefit from the experience, a refresher on the basics and a means to gain a few new clinical pearls.
Basil R. Besh, MD, Fremont Orthopaedic & Rehabilitative Medicine

Rapid Fire Session 10A – Total Knee Kauai Ballroom 1
Moderators: Jeffrey M. Nakano, MD, Rocky Mountain Orthopaedic Associates & David H. Chafey III, MD, University of New Mexico

11:50 am  Varus and Valgus Deformities Have Different Compartment Forces after TKA
Trevor J. Shelton, MD, University of California, Davis

11:54 am  Mechanical Multidirectional Instability after Primary Knees Associated with Metal Ion Allergy
Gerhard E. Maale III, MD, Medical City Hospital

11:58 am  Factor-Xa Inhibitors and Aspirin Outperform Traditional Anticoagulants in Total Knee Arthroplasty
Abirami Balas, MD, Stanford University
*Presented by Derek F. Amanatullah, MD, PhD

12:02 pm  Discussion

12:10 pm  The Linea Aspera as a Marker for Intraoperative Femoral Rotation
Cody Covington, MD, Baylor Scott & White Medical Center

12:14 pm  A Rosetta Stone for TKA: Translating Expectations into Patient Reported Outcomes
Adam A. Sassoon, MD, MS, University of Washington
12:18 pm  Distal Femoral Osteotomy Trends and Survivorship: A Population-Based Study  
K. Soraya Heidari, BA, University of Southern California

12:22 pm  Discussion

Rapid Fire Session 10B – Upper Extremity  
Kauai Ballroom 2
Moderators: Robert R. Slater, Jr., MD, Folsom, CA & Thomas R. Hunt, MD, Baylor College of Medicine

11:50 am  Relevant Insertion Site Anatomy of the Conventus Distal Radius System  
Jacob Duncan, DO, MD, Valley Orthopaedic Surgery Residency  
*Presented by Jesua Law, DO

11:54 am  Proximal Interphalangeal Collateral Ligament Cadaveric Study  
John G. Couy, DO, Valley Orthopaedic Surgery Residency

11:58 am  Determining Insertion of Digital Extensor Mechanism Terminal Tendon Using Lunula  
Jeff Jett, DO, Valley Orthopaedic Surgery Residency  
*Presented by Jesua Law, DO

12:02 pm  Discussion

12:08 pm  Cost Minimization Analysis of the Treatment Distal Radius Fractures in the Elderly  
Eric Q. Pang, MD, Stanford University  
*Presented by Robin N. Kamal, MD

12:12 pm  The Effects of Prior Cervical Fusion on Outcomes and Early Complications after Shoulder Arthroplasty  
Jennifer Tangphalboontran, MD, University of California, San Francisco

12:16 pm  Trans-Brachioradialis Approach to Radial Tunnel, Anatomic Study of Compression Sites  
Jason Ummel, DO, Valley Orthopaedic Surgery Residency  
*Presented by John G. Couy, DO

12:20 pm  Dorsal Distraction Distal Radius Plating Fractures with Dorsal Marginal Impaction  
Eric Huish, DO, Valley Orthopaedic Surgery Residency  
*Presented by John G. Couy, DO

12:24 pm  Discussion

Rapid Fire Session 10C – Spine  
Kauai Ballroom 3
Moderators: Rex A. Marco, MD, Houston Methodist Hospital & Omer A. Ilahi, MD, Southwest Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute

11:50 am  Outcomes for Adult Spinal Deformity Correction; Staged versus Same-Day Surgery  
Alexander H. Arzeno, MD, Stanford University

11:54 am  ALIF vs. AxialLIF at the Bottom of a Long Construct in CMIS Treatment of Adult Spinal Deformity  
Alisa Alayan, MD, Cedars Sinai Medical Center

11:58 am  A Prospective, Randomized Study of Patient Controlled Epidural Analgesia versus Patient Controlled Intravenous Analgesia for Postoperative Pain Control after 1 and 2-Level Lumbar Fusions  
Alexander H. Arzeno, MD, Stanford University

12:02 pm  Discussion

12:08 pm  Lifelong Antibiotic Suppression for Infected Instrumented Spines – Fact or Myth?  
Krishn Khanna, MD, University of California, San Francisco

12:12 pm  Improved Biomechanics of Two Alternative Kyphoplasty Cementation Methods  
John Paul Kleimeyer, MD, Stanford University

12:16 pm  Is Two Better than One? Infection Rates and Bacterial Resistance Following Prophylactic Administration of Vancomycin IV in Addition to Standard Prophylactic Antibiotics in Spinal Instrumentation Surgery  
Howard Y. Park, MD, University of California, Los Angeles

12:20 pm  Single Position versus Lateral-Then-Prone Positioning for Lateral Interbody Fusions and Pedicle Screw Fixation  
Chason Zino, MD, Stanford University  
*Presented by Ashley Aratani, MD

12:24 pm  Discussion

Rapid Fire Session 10D – Pediatrics  
Kauai Ballroom 4
Moderators: Meghan N. Imrie, MD, Stanford School of Medicine & Pamela J. Sherman, MD, Cook Children’s Medical Center

11:50 am  Does Pre-Culture Antibiotics Cause Non-Diagnostic Results in Pediatric Musculoskeletal Infections  
Michael Basso-Williams, DO, MPH, Riverside University Health System Medical Center

11:54 am  The National Incidence of Failed Initial Irrigation and Debridement for Pediatric Septic Hip  
Ram Alluri, MD, University of Southern California

11:58 am  Short Leg Cast Immobilization of Distal Tibial Physeal Fractures  
Clayton Vaughan, MD, Baylor Scott and White Memorial Hospital

12:02 pm  Discussion

12:08 pm  Is the Bernese Periacetabular Osteotomy Safe for the Treatment of Hip Dysplasia When the Triradiate Cartilage is Still Open? A Preliminary Study  
Stephanie Pun, MD, Stanford University

12:12 pm  The S Sign: A New Radiographic Tool to Aid in the Diagnosis of Slipped Capital Femoral Epiphysis  
Eric J. Rebich, DO, Riverside University Health System Medical Center

12:16 pm  Clinical Outcomes of Articular Cartilage Restoration of the Pediatric and Adolescent Knee with Respect to Minimal Clinically Important Difference: A Systematic Review  
Rosa S. Valtanen, BS, University of California, Los Angeles  
*Presented by Armin Arshi, MD

12:20 pm  Single Incision Pediatric Flexible Intramedullary Tibial Nailing  
Zachary C. Lum, DO, Valley Orthopaedic Surgery Residency  
*Presented by Jesua Law, DO

12:24 pm  Discussion

12:30 pm  Multimedia Education Session  
Garden Isle Room 2

Complete your CME records online at www.woa-assn.org
Scientific Poster Presentations  Kauai Ballrooms 1, 2, 3 & 4

Thursday, August 3: 6:00 am – 6:45 am / 1:45 pm – 2:45 pm
Friday, August 4: 6:00 am – 7:00 am / 1:30 pm – 2:30 pm
Saturday, August 5: 6:00 am – 7:00 am

Station A - Kauai Ballroom 1

**BASIC SCIENCE**

**Poster 1:** Characterization of Human Pluripotent Stem Cell Pericytes in Murine Model of Massive Rotator Cuff Tear
Gina M. Mosich, MD, University of California, Los Angeles

**Poster 2:** In Vitro Inhibition of Fibroadipogenic Progenitor Cells in a Murine Model of Rotator Cuff Tears
Brandon K. Vu, BS, University of California, Los Angeles

**FOOT & ANKLE**

**Poster 3:** Relationship between Hemoglobin A1c Value and Bone Healing in Diabetic Ankle Fractures Treated Operatively vs Non-Operatively
Jessica Hughes, MD, Baylor Scott and White

**OTHER**

**Poster 4:** Is the Internet a Reliable Source for Patient Education? A Systematic Review of Online Resources in Orthopaedic Surgery
Jason H. Ghodasra, MD, MSCI, University of California, Los Angeles
*Presented by Eli S. Kupperman, MD*

**Poster 5:** Anatomic Knowledge and Perceptions of the Adequacy of Anatomic Education amongst Applicants to Orthopedic Residency
Jeremy D. Shaw, MD, University of California, San Francisco
*Presented by Jonathan Cheah, MD*

**SPINE**

**Poster 6:** Incidence of Lumbar Disc Herniation in Military Helicopter Pilots
CPT J. Banks Deal Jr., MD, Tripler Army Medical Center

**Poster 7:** Long Term Clinical Outcomes in Patients with Type-II Odontoid Fractures
Ryan Martyn, MD, Geisinger Medical Center

**SPORTS MEDICINE**

**Poster 8:** Coracoclavicular Ligament Reconstruction: Early Outcomes of a Novel Reconstruction Technique
Michael H. French, DO, Riverside University Health System Medical Center
*Presented by Eric J. Rebich, DO*

**Poster 9:** Return to Play Following Shoulder Stabilization: A Systematic Review
Marc N. Jaliy, MD, University of California, San Francisco
*Presented by Alan L. Zhang, MD*

**Poster 10:** Comparative Effectiveness of Cartilage Repair with Respect to Minimal Clinically Important Difference (MCID)
Benjamin V. Kelley, MD, University of California, Los Angeles
*Presented by Armin Arshi, MD*

**TOTAL KNEE**

**Poster 11:** Unicompartmental Knee Arthroplasty for Spontaneous Osteonecrosis of the Knee: A Meta-Analysis
Julio Jauregui, MD, University of Maryland
*Presented by Farshad Arshi, MD*

**Poster 12:** Effects of Corticosteroids on Periarticular Infiltration Analgesia in Knee Arthroplasty: A Systematic Review and Meta-Analysis of RCTs
Samer Kakish, FRCS (Tr and Orth), University of New Mexico

Station B - Kauai Ballroom 2

**TRAUMA**

**Poster 13:** Civilian Gunshot Wounds of the Innominate Bone
Meghan A. Brown, MD, University of Southern California

**Poster 14:** Dismounted Complex Blast Injuries: Patterns of Contralateral Limb Injuries in Patients with Lower Extremity Amputations
John Dupaix, MD, University of Hawaii

**Poster 15:** Civilian Gunshot Wounds of the Sacrum
Mary Kate Erdman, MD, University of Southern California

**Poster 16:** Effect of Mental Health Conditions on Complications, Revision Rates and Readmission Rates Following Lower Extremity Trauma
Brock Foster, MD, Keck School of Medicine of University of Southern California
*Presented by Mary Kate Erdman, MD*

**Poster 17:** Practice Patterns in the Treatment of Posterior Pelvic Ring Injuries
Jacob D. Gire, MD, Stanford University
*Presented by Julius A. Bishop, MD*

**Poster 18:** Distal Femur Replacement versus Fixation for Geriatric Distal Femur Fracture
Michael Githens, MD, Harborview Medical Center

**Poster 19:** A Management Protocol for Acute Knee Dislocations with Associated Vascular Injury
Thomas Githens, DO, Texas Tech University
*Presented by Michael Githens, MD*

**Poster 20:** Use of 3D Printed Models to Improve Acetabulum Fracture Identification
Philip K. Lim, MD, University of California, Irvine

**Poster 21:** Scapula-Shoulder, Humerus, Elbow through Forearm Reconstruction: A Case Report
Gerhard E. Maale III, MD, Medical City Hospital

**Poster 22:** Nail or Plate? Supracondylar Distal Femur Fractures in the Elderly
Motaseem Refaat, MD, Harborview Medical Center

**Poster 23:** Accuracy of Assessing Reduction in Intertrochanteric Hip Fractures Using Fluoroscopy
Evan E. Vellios, MD, University of California, Los Angeles

**Poster 24:** Retrograde Tibial Nailing for Shaft Fractures below a Total Knee Arthroplasty and Internal Fixation, A Novel Technique
Chason Ziino, MD, Stanford University
*Presented by Ashley Aratani, MD*

**Poster 25:** Femoral Neck Displacement is Underestimated Using Fluoroscopy: Pilot Sawbones Study
Stephen D. Zoller, MD, University of California, Los Angeles
Scientific Poster Presentations  Kauai Ballrooms 1, 2, 3 & 4
Thursday, August 3: 6:00 am – 6:45 am / 1:45 pm – 2:45 pm
Friday, August 4: 6:00 am – 7:00 am / 1:30 pm – 2:30 pm
Saturday, August 5: 6:00 am – 7:00 am

Station C - Kauai Ballroom 3

**UPPER EXTREMITY**

**Poster 26:** Effects of Chronic Opioid Use on Perioperative Shoulder Arthroplasty Outcomes  
Jonathan Cheah, MD, University of California, San Francisco

**Poster 27:** Effect of Mental Health on Readmissions and Complications Following Shoulder Arthroplasty  
Brook Foster, MD, Keck School of Medicine of University of Southern California  
*Presented by Mary Kate Erdman, MD*

**Poster 28:** The Assessment of Quality, Accuracy and Readability of Internet Queries for Dupuytren’s Contracture: Are They Reliable Resources for Patient Education?  
Jason H. Ghodasra, MD, MSCL, University of California, Los Angeles

**Poster 29:** Anatomic Anterior Proximal Ulnar Angle Differences Based on Arm Position and a Case Report of Its Use  
Ian Hasegawa, MD, University of Hawaii

**Poster 30:** Aggression Related Injuries of the Hand in the United States  
Joshua W. Hustedt, MD, MHS, University of Arizona

**Poster 31:** The Effect of Preoperative Modifiable Risk Factors on Postoperative Complications in Hand Surgery  
Joshua W. Hustedt, MD, MHS, University of Arizona

**Poster 32:** Collagenase, Aponeurotomy and Application of Digit Widget for Dupuytren’s Disease  
Jesua Law, DO, Valley Orthopaedic Surgery Residency

**Poster 33:** Surgical Degloving for the Treatment of Necrotizing Fasciitis  
Jesua Law, DO, Valley Orthopaedic Surgery Residency

**Poster 34:** A Comparison of Outpatient Versus Inpatient Shoulder Arthroplasty – A Single Hospital Experience  
Chima D. Nwankwo, MD, ST. Mary’s Medical Center

**Poster 35:** Cost-Effectiveness Analysis of Open versus Endoscopic Carpal Tunnel Release  
Gabrielle M. Pacci, MD, Stanford Hospital and Clinics

**Poster 36:** Association of Lunate Morphology with Carpal Mechanics in Scapholunate Ligament Injury  
Eric Q. Pang, MD, Stanford University  
*Presented by Robin N. Kamal, MD*

**Poster 37:** Tensile and Torsional Structural Properties of the Native Scapholunate Ligament and Structural Properties of the Palmaris Longus and Brachioradialis Tendons as Potential Grafts for Scapholunate Ligament Reconstruction  
Eric Q. Pang, MD, Stanford University  
*Presented by Robin N. Kamal, MD*

Station D - Kauai Ballroom 4

**PEDIATRICS**

**Poster 38:** Association between Femoroacetabular Impingement Morphology and Adolescent Pelvic Avulsion Fractures  
Derek Axibal, MD, MS, University of Colorado

**Poster 39:** Epidemiology of Anterior Tibial Spine Fractures in Young Patients  
Derek Axibal, MD, MS, University of Colorado

**Poster 40:** Similar Outcomes: Operative vs Non-Operative Medial Epicondyle Fractures in Athletes  
Derek Axibal, MD, MS, University of Colorado

**Poster 41:** Avascular Necrosis with Modified Dunn in SCFE Patients: A Meta-Analysis  
Julio Jauregui, MD, University of Maryland  
*Presented by Farshad Adib, MD*

**Poster 42:** The Risk of Curve Progression in African Americans with AIS  
Taylor R. Lara, MD, Oregon Health & Science University

**Poster 43:** Change in Radiographic Displacement of Non-Operatively Treated Displaced Medial Humeral Epicondylic Fractures in Pediatric Patients  
Gina M. Mosich, MD, University of California, Los Angeles

**Poster 44:** Meta-Analysis of Isolated Pediatric Meniscus Injury  
Gina M. Mosich, MD, University of California, Los Angeles

**Poster 45:** Rigid Nail Fixation in Children Ages Six to Twelve Years Old: A Systematic Review  
Brielle Kimberly Payne, MD, University of New Mexico

**Poster 46:** Medial Patellofemoral Augmentation in Adolescent Patella Dislocations  
Nicolas Vardiabasis, DO, Riverside University Health System  
*Presented by John A. Schlechter, DO*

**Poster 47:** The Typical Resting Position of the Adolescent Scapula  
Nicolas Vardiabasis, DO, Riverside University Health System  
*Presented by John A. Schlechter, DO*

**Poster 48:** Mischievous Metaphyseal Metal: An Argument for Removing Implants in Children  
Chason Ziino, MD, Stanford University  
*Presented by Ashley Aratani, MD*
A Meeting Registration, Technical Exhibits, Continental Breakfast, Coffee Breaks, Daily Drawing, Scientific Sessions & Symposia, Industry Presentations, Exhibitor Reception
Grand Ballroom & Foyer

B Board of Directors Meetings, Speaker Ready Area, Multimedia Education Sessions, Regional and AAOS Presidents’ Breakfast Meeting
Garden Isle Rooms

C Scientific E-Poster Sessions, Allied Health Sessions, Resident Review Program, Resident Reception, Kids’ Party
Kauai Ballroom & Foyer

D Tour Departures
Group Porte Cochere

E New Member Reception
Grand Lawn Gazebo

F Welcome Reception, Family Luau
Ilima Gardens

G Guest/Children’s Hospitality Breakfast
Dondero’s Restaurant

H Tennis Courts

I Poipu Bay Golf Course

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